STIEBEL ELTRON

Specialist information
01 | 2025

Inform comprehensively
Install uncomplicated

Overview of products 2025

EN

Explanation of symbols

Group supply

Individual supply

Central supply

Floorstanding installation

Oversink installation

Undersink installation

Indoor installation

Outdoor installation

Portable

Fully wired

Permanent connection

Pressurised / unvented

Non-pressurised / vented

Boiling water (approx. 100 °C)

High temperature (approx. 85 °C)

Average temperature (approx. 60 °C)

Low temperature (approx. 50 °C)

High flow rate

Average flow rate

Low flow rate

Radiator

Underfloor heating

Heat source – air

Heat source – ground

Heat source – water

DHW cylinder integrated

Buffer cylinder integrated

Instantaneous water cylinder integrated

Ventilation heating

Central ventilation

Decentralised ventilation

Heat recovery

Moisture recovery

Dehumidify

Heating

Cooling

Heating circuit, thermostatic mixing

Heating circuit, electronic mixing

Electric reheating

Domestic hot water

Manual filling

Automatic filling

IR radiant heat

Convection

Fan

Integrated control unit

Self-limiting

UV-resistant

Mastic asphalt

Infloor installation

Quiet

Short drying time

Normal drying time

2i technology

3i technology

4i technology

Anti-drip

Thermostop

Profi-Rapid

Profi-Direct

High efficiency

Extremely quiet

C-PLUS technology

ECO Comfort Plus Dynamic

Subsidies available

● | ■ New | Discontinued

Prices

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This printed version is not intended for consumers. Deliveries are made in accordance with our general terms of delivery and payment. The binding basis for the use and installation of the appliances are the printed documents included with the appliances, as well as the relevant regulations.
The editorial deadline for this printed version was 30/10/2024 The latest technical values can be found on our homepage at www.stiebel-eltron.com

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WPL 17 ICS classic comfort Set	236731	219
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WPL 09 ICS classic compact plus Set	236728	220
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HPG-I 04 DCS Premium	202632	249
HPG-I 06 DCS Premium	202633	249
HPG-I 08 DCS Premium	202634	249
WPE-I 12.1 Plus HW 230	207186	250
WPE-I 07.1 Plus HW 400	207180	250
WPE-I 12.1 Plus HW 400	207181	250
WPE-I 07.1 Plus HW 230	207185	250
WPE-I 07.1 Plus H 400	207177	252
WPE-I 12.1 Plus H 400	207178	252
WPE-I 07.1 Plus H 230	207183	252
WPE-I 12.1 Plus H 230	207184	252
HPG-I 04 CS Premium	202627	254
HPG-I 06 CS Premium	202628	254
HPG-I 08 CS Premium	202629	254
HPG-I 12 CS Premium	202630	254
HPG-I 15 CS Premium	202631	254
HPG-I 04 S Premium	202617	259
HPG-I 06 S Premium	202618	259
HPG-I 08 S Premium	202619	259
HPG-I 12 S Premium	202620	259
HPG-I 15 S Premium	202621	259
WPE-I 33 H 400 Premium	201412	267
WPE-I 44 H 400 Premium	201413	267
WPE-I 59 H 400 Premium	201414	267
WPE-I 87 H 400 Premium	201415	267

Ground source heat pumps – Fixspeed

Fixspeed		
Type	Mat. no.	Page
WPE-I 05 HW 400 Plus	205834	272
WPE-I 07 HW 400 Plus	205835	272
WPE-I 10 HW 400 Plus	205836	272
WPE-I 05 H 400 Plus	205828	274
WPE-I 07 H 400 Plus	205829	274
WPE-I 10 H 400 Plus	205831	274
WPE-I 13 H 400 Plus	205832	274
WPE-I 17 H 400 Plus	205833	274
WPF 20	233003	277
WPF 27	233004	277
WPF 35	233005	277
WPF 40	233006	277
WPF 52	233007	277
WPF 66	233008	277
WPF 27 HT	233009	281

Accessories for ground source heat pumps

Accessories		
Type	**Mat. no.**	**Page**
UPF 30/1-8 E	232532	286
UPF 40/1-8 E	227413	286
UPF 50/1-12 E	227414	286
GWS 1	230659	286
GWS 2	230660	286
WPSB 308 E	222375	287
WPSF	233307	287
DWS1	221382	288
MAG 12	235218	288
MAG 18	235219	288
MAG 25	235220	288
MAG 50	235221	288
MEG 30	161696	289
FS-WP 22	233511	289
FS-WP 28	233512	289
MFS-WP 28	235234	290
SDB 40-0.8 G	201713	290
SDB 50-0.8 G	201714	290
EM 33-87	201715	291
EMW	202062	291
HG Set 33-87	201716	292
FEG	201767	292
TAF PT 5m	235995	293
TAF PT 2m	235996	293
AF PT	235997	293
● AWG 80	207743	294
● AHP-TC	207744	294
● AHP-PH	207742	295

Control units

Controller		
Type	**Mat. no.**	**Page**
■ WPM international	236000	300
● WPM Connect International	207709	301
WPE	234725	301
Connectivity		
Type	**Mat. no.**	**Page**
ISG web	229336	302
Controller accessories		
Type	**Mat. no.**	**Page**
FET	234723	303
TAF PT 5m	235995	303
TAF PT 2m	235996	303
AF PT	235997	304
AVF 6	165341	304
TF 6	165342	305

Hydraulic modules

Mono mode		
Type	**Mat. no.**	**Page**
HM Trend	232805	308
HMS Trend	233826	308

Accessories for hydraulic modules

Accessories		
Type	**Mat. no.**	**Page**
ASL-HM	232806	310
AS-HM Trend	233750	310

Integral cylinder

With integral buffer cylinder		
Type	**Mat. no.**	**Page**
HSBC 300 cool	203801	312
HSBC 300 L cool	238826	313
HSBC 200	233510	314
HSBC 200 S	234801	314
HSBC 200 L	236684	315
HSBC 180 Plus	202927	316
HSBC 180 S Plus	203082	316
Without integral buffer cylinder		
Type	**Mat. no.**	**Page**
HSBB 180 Plus	202926	317
HSBB 180 S Plus	203084	317

Accessories for integral cylinders

Accessories		
Type	**Mat. no.**	**Page**
HSBC-HKM	234648	320
HSBC 3-HKM	238825	320
CDT 180	204642	320

DHW cylinder

DHW cylinder		
Type	**Mat. no.**	**Page**
SBB 301 WP	221360	322
SBB 302 WP	221361	322
SBB 401 WP SOL	221362	322
SBB 501 WP SOL	227534	322
STD 315-1 Plus	204784	322
STD 420-1 Plus	204785	322
STD 520-1 Plus	204786	322
SBB 600 WP SOL	235906	323
SBB 800 WP SOL	235907	323
SBB 1000 WP SOL	235908	323

Accessories for DHW cylinders

Accessories		
Type	**Mat. no.**	**Page**
WRV 32	232628	326
WRV 40	232629	326
WDH 800 SBB	235910	326
WDH 1000 SBB	235911	326
WDH 600 SBB	235909	326

Instantaneous water cylinder

Instantaneous water cylinder		
Type	**Mat. no.**	**Page**
SBS 601 W	229980	328
SBS 601 W SOL	229984	328
SBS 801 W	229981	328
SBS 801 W SOL	229985	328
SBS 1001 W	229982	328
SBS 1001 W SOL	229986	328
SBS 1501 W	229983	328
SBS 1501 W SOL	229987	328

Accessories for instantaneous water cylinders

Accessories		
Type	**Mat. no.**	**Page**
WDH 601 SBS	231925	332
WDH 801 SBS	231926	332
WDH 1001 SBS	231927	332
WDH 1501 SBS	231928	332
ZW 1 1/4	230312	332

Buffer cylinder

Buffer cylinder		
Type	**Mat. no.**	**Page**
SBP 100 classic	235200	334
SBP 200 Plus cool	205295	334
SBP 400 Plus cool	205296	334
STH 210 C Plus	205369	335
STH 415 C Plus	205370	335
SBP 700 E	185459	336
SBP 700 E SOL	185460	336
STH 720 Plus	203765	337
STH 720-1 Plus	203766	337
SBP 1000 E	227564	338
SBP 1000 E SOL	227566	338
SBP 1010 E	236569	338
SBP 1500 E	227565	338
SBP 1500 E SOL	227567	338
SBP 1000 E cool	227588	339
SBP 1010 E cool	236570	339
SBP 1500 E cool	227589	339

Accessories for buffer cylinders

Accessories		
Type	**Mat. no.**	**Page**
WPKI 5-I	205875	342
BBI 5-I	205877	342
WPKI 6-I	205876	343
ET SBP	003711	343
BF 80 Set	231884	344
FG 80/2 Set	231885	344
BF 80	205090	344
FG 80/2	205091	344
WDH 1010 SBP	201662	345
WDH 1000 SBP	231929	345
WDH 1500 SBP	231930	345
WDH 1000 cool	231921	345
WDH 1500 cool	231922	345

Additional accessories

Electric threaded immersion heaters and flanged immersion heaters		
Type	**Mat. no.**	**Page**
BGC 6 kW 500 mm ET	003769	348
BGC/45	075115	348
BGC 2/60	232030	348
FCR 21/60	071330	348
FCR 21/120 E	071331	348
FCR 28/120	071332	348
FCR 28/120 E	000694	348
FCR 28/120 CrNi	234503	349
FCR 28/180	071333	349
FCR 28/180 E	000695	349
WPRB	074233	349

Heat pump accessories

DHW heating		
Type	**Mat. no.**	**Page**
UPZ	233719	352
UP 25-60-180	056899	352
WT 30	071091	353
WT 40	229338	353
Heating system hydraulics		
Type	**Mat. no.**	**Page**
UP 25/7.5 PCV	201620	354
UP 25/1-8 PCV	205285	354
UP 30/1-8 PCV	205286	354
UP 30/1-10 PCV	205288	354
UP 40/1-8 E	206633	354
UP 50/1-12 E	206636	354
WPKI-HK DN 25	206627	354
WPKI-HKM E 24	206300	355
WPKI-HKM 24 DN 32	206628	356
WPKI-HKM 24 DN 40	206632	356
WPKI-HKM 230 DN 25	206631	356
WPKI-HKV 2	206638	357
WPKI-HKV 3	206637	357
HUV 1	227420	358
HUV 2	223391	358
HUV 65	227425	358
HUV 80	227426	358
WPHW 25	221135	358
HZEA	230013	359
HZEN	230031	359
SD 25-1 G	232976	360
SD 25-2 GE	233828	360
SD 25-2.5 GE	232971	360
SD 32-0.6 G	201710	360
SD 32-1 G	232977	360
SD 32-2 GE	233831	360
SD 40-0.8 G	201711	360
SD DN25-1 E	074415	361
SD 25-1 E	232965	361
SD 32-1 E	232968	361
SD DN32-1 E	074414	361
SD 50-1 E	232972	361

SD 25-1 KE	232974	361
SD 32-1 KE	232975	361
SV DS 25	003713	362
SV DS 32	070692	362
FSHP-L45	202779	362
Additional accessories		
Type	**Mat. no.**	**Page**
STB-FB	233711	363

Ventilation with integral heat pump

Room heating, DHW heating and supply/extract air with heat recovery		
Type	**Mat. no.**	**Page**
LWZ 8 CS Premium	201290	371

Accessories for ventilation with integral heat pump

Accessories		
Type	**Mat. no.**	**Page**
AWG 315 SR.2	205786	376
LSWP 315-2 SG Set	238565	377
AWG 315 SR	233836	377
AWG 315 GL	232955	377
AWG 315 L	231039	377
LSWP 315-1.5 SG	201720	378
LSWP 315-4 SG	201618	378
LSWP 315-4 S	234646	378
LLB AWG 315 L	232341	378
LLB AWG 560 L	232342	378
LWF SK 315 - 0,6	202933	379
LULH 315 o	232675	379
LWTF Inverter Enthalpie LWZ 5+8	233867	380
LSK Inverter	227665	380
ZLWZ Zirku set	233301	381
ZLWZ Trans	233485	381
ALD 160	189813	382
ZALD	189816	382
Controllers		
Type	**Mat. no.**	**Page**
FES Komfort	227664	383
FET	234723	383
ISG web	229336	384
RC1	170328	384
Filter		
Type	**Mat. no.**	**Page**
FMK F7-2 ZUL Inverter	231332	385
FMK M5-2 ZUL Inverter	231331	385
FMS G4-10 ABL Inverter	231330	386

Central ventilation units

Supply and extract air with heat recovery, wall mounting		
Type	**Mat. no.**	**Page**
LWZ 180	232361	392
LWZ 280	232362	392
LWZ 180 Enthalpie	236646	395
LWZ 280 Enthalpie	236647	395
VRC-W 400	203636	398
VRC-W 400 E	203637	398
● VRC-W 450 Premium	204940	401
● VRC-W 600 Premium	204714	401
● VRC-W 450 E Premium	204941	404
● VRC-W 600 E Premium	204715	404
LWZ 70 E	233851	408
LWZ 170 E Plus	233850	411
LWZ 370 plus	232033	411
Supply and extract air with heat recovery, ceiling mounting		
Type	**Mat. no.**	**Page**
LWZ 130	237805	414
LWZ 130 Enthalpie	237806	416

Accessories, central ventilation units

Accessories		
Type	**Mat. no.**	**Page**
LWTF 180/280	236420	420
● LWTF W450/600	359304	420
ZLWZ VHR 70 E	236038	421
LSK 70 E	227046	421
Controllers		
Type	**Mat. no.**	**Page**
FEB 2.0	205018	422
● FEB 2.1	206612	422
FEZ	185358	423
ZLWZ 4 S	234866	423
● WLAN VRC .1	206611	424
Filter		
Type	**Mat. no.**	**Page**
FMS G4-10 130/135	238923	425
FMK M5-2 130/135	238924	425
FMK F7-2 130/135	238925	426
FMS G4-10 180	234147	426
FMK M5-2 180	234148	427
FMK F7-2 180	234208	427
FMS G3-10 70	222446	428
FMK F7-2 70	227660	428
● FMS EPMC 65-10 W450/600	206610	429
● FMK EPM1 55-2 W450/600	206596	429
● FMK EPA 12-2 W450/600	206597	430

Distribution system for integral and central ventilation

LVE onfloor		
Type	**Mat. no.**	**Page**
LVE RP 20	231111	432
LVE BF 45	231121	432
LVE BF 90	231122	432
LVE BH 90-D	206252	433
LVE Ü 180	231120	433
LVE Ü 90	233032	434
● LVE TB 75	207077	434
LVE ÜB-O	235913	435
LVE ÜB-U	235912	435
LVE M	231112	435
LVE RA	231117	435
LVE YS	239126	436
LVE A	205366	436
LVE KF	231113	437
LVE WDA 125	205364	437
LVE-LVS WDA 125	205368	438

LVS infloor		
Type	**Mat. no.**	**Page**
LVS RP 75-50	235059	439
LVS RP 90-25	223320	439
LVS RS 75	207074	439
LVS VTS 6	201456	440
LVS VTS 9	234493	440
LVS VT 14	205558	440
ZLVS VTÜ 75-90	234494	441
LVS WDA 125-2-75	205367	442
LVS A 2-75	205365	442
LVS M 75	224897	443
ZLVS O 75-10	236421	443
ZLVS O 90-10	236422	443
LVS DA 75-125-2	236423	444
LVS-MSV-SB	232117	444
LVS-MSV-SBA	232118	445
LVS AS 75	223318	445
LWF system		
Type	**Mat. no.**	**Page**
LWF T 160 - 160	159323	446
LWF M 125	159299	446
LWF N 160	159320	447
LWF RS 160 M - 125 N	207509	447
LWF F 125 - 5	159334	448
LWF F 160 - 5	159332	448
LWF DR 125-1 EPP	239231	448
LWF DR 160-1 EPP	239232	448
LWF DRB 125-45 EPP	239234	449
LWF DRB 125-90 EPP	239233	449
LWF DRB 160-45 EPP	239236	449
LWF DRB 160-90 EPP	239235	449
LWF DRM 125 EPP	239237	449
LWF DRM 160 EPP	239238	449
LWF S 160 - 0,9	159346	450
LWF SK 315 - 0,6	202933	450
LWF SE 125	207073	451
LWF LB 10m	159348	451
LWF KB 10	227948	452
LWF AVM 125	227924	452
LWF ZVM 125	230163	453
KWG 125	239139	453
WG 200	205560	454
WG 160	205559	454

Decentralised ventilation in residential buildings

Supply and extract air with heat recovery		
Type	**Mat. no.**	**Page**
VLR 70 S Trend EN	200002	458
VLR 70 L Trend EN	201458	458
VLR 70 L Trend EU	203133	458
Extract air without heat recovery		
Type	**Mat. no.**	**Page**
LA 100 A	205771	460
LA 100 U	205772	460
LA 100 UB	205773	460
ZLA 100-H	205830	461
LA 100 G-U	205878	461
LA 100 G-UB	206247	461
LA 100 G-A	205906	462
LA 100 VE	205907	462
LWF W 100 VA - 60	231104	463
FMS G3-5 LA 60	201455	463

Accessories for decentralised ventilation in residential buildings

Accessories for controllers		
Type	**Mat. no.**	**Page**
VLR 70-8 CU	239572	466
VLR 70-2 CU	239570	466
VLR 70-4 CU	239571	466
LTM TL HUMIDITY	237126	466
LTM dezent APD BT	237644	467
Filter		
Type	**Mat. no.**	**Page**
SP VLR 70 RF COARSE 30 G2-4	239562	468
SP VLR 70 RF EPM1 50 F7-4	239577	468
SP VLR 70 RF COARSE 60 G4-4	239575	468
SP VLR 70 RF EPM10 50 M5-4	239576	469

Decentralised ventilation in non-residential buildings

Supply and extract air with heat recovery		
Type	**Mat. no.**	**Page**
VRL-C 870 G Premium	204132	472
VRL-C 870 G Trend	204133	476
VRL-C 870 D Premium	204134	480
VRL-C 870 D Trend	204135	484
VRL-C 300 G Premium	204140	488
VRL-C 300 G Trend	204141	492
VRL-C 300 D Premium	204142	496
VRL-C 300 D Trend	204143	500

Accessories for decentralised ventilation in non-residential buildings

Installation accessories		
Type	**Mat. no.**	**Page**
LTM dezent 300 ULB-90	237626	506
LTM dezent ULB-90	237634	506
LTM dezent 300 Z-PSS	237671	506
LTM dezent 600/800 Z-PSS	237672	506
LTM dezent C-PSS	237673	506
LTM dezent RWA	237674	506
Wall terminal		
Type	**Mat. no.**	**Page**
LTM dezent 300 BA VA 320 B	237627	507
LTM dezent 300 BA VA 320 W	237628	507
LTM dezent BA VA 410 B	237629	507
LTM dezent BA VA 410 W	237633	507
Controllers and sensors		
Type	**Mat. no.**	**Page**
ZVRL-C CU	204144	508
LTM dezent VOC	237658	508
LTM dezent CO2	237649	509
Supplementary accessories		
Type	**Mat. no.**	**Page**
LTM dezent BACnet Web - Ethernet	237646	510
LTM dezent LON IF	237647	510
LTM dezent Modbus RS 485 IF	237648	510

Filter		
Type	**Mat. no.**	**Page**
LTM dezent FMS F9-1	237668	511
FMK M5-2 ABL dez. 800/870	206202	511
FMK M5-10 ABL dez. 800/870	206203	511
FMK F7-2 ZUL dez. 800/870	206204	511
FMK F7-10 ZUL dez. 800/870	206205	511
FMK M5-2 ABL dez. 300	206206	511
FMK M5-10 ABL dez. 300	206207	511
FMK F7-2 ZUL dez. 300	206208	511
FMK F7-10 ZUL dez. 300	206209	511

Storage heaters

Standard storage heater		
Type	**Mat. no.**	**Page**
SHF 2000	200175	516
SHF 3000	200176	516
SHF 4000	200177	516
SHF 5000	200178	516
SHF 6000	200179	516
SHF 7000	200180	516

Accessories for storage heaters

Control units		
Type	**Mat. no.**	**Page**
RTA-S2	231061	518

Convectors

Wall installation		
Type	**Mat. no.**	**Page**
CON 10 Premium	237831	522
CON 15 Premium	237832	522
CON 20 Premium	237833	522
CON 30 Premium	237834	522
CON 5 Premium	237830	522
CWM 500 P	200254	523
CWM 750 P	200255	523
CWM 1000 P	200256	523
CWM 1500 P	200257	523
CWM 2000 P	200258	523
CWM 2500 P	200259	523
CWM 3000 P	200260	523
CNS 50 Trend M	203638	525
CNS 100 Trend M	203640	525
CNS 150 Trend M	203641	525
CNS 200 Trend M	203642	525
CNS 250 Trend M	203643	525
CNS 300 Trend M	203644	525
Floorstanding appliances		
Type	**Mat. no.**	**Page**
● CNS 2000 Plus LCD Move	207060	526
● CNS-B 2000 Plus LCD Move	207068	526
CWM 750 M-F	204452	527
CWM 1000 M-F	204453	527
CWM 1500 M-F	204454	527
CWM 2000 M-F	204455	527
CWM 2500 M-F	204456	527
CWM 3000 M-F	204457	527

Rapid heater

Rapid heater		
Type	**Mat. no.**	**Page**
CK 20 Premium	237835	530
CK 20 Trend LCD	236653	531
CK 20 Trend	234918	532

Infrared wall mounted radiant heater

Indoor		
Type	**Mat. no.**	**Page**
IW 120	229339	536

Hand dryer, high speed

High speed		
Type	**Mat. no.**	**Page**
ULTRONIC Premium	205633	540
ULTRONIC Plus	205632	541

Engineering

Engineering services		
Type	**Mat. no.**	**Page**
Planning of ventilation technology, 3D	240592	546

Compact DHW heat pumps

Floorstanding							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				SHP-O 200 Plus	204472	09.2024	128
				SHP-O 300 Plus	204473	09.2024	128
				SHP-I 200 Plus	204474	09.2024	130
				SHP-I 300 H Plus	204478	09.2024	130
				SHP-I 300 Plus	204476	09.2024	130

DHW heat pump accessories

Installation accessories							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				BS LSWP 160-4 AL	234108	01.2025	136
				LSWP 160-4 AL	234022	01.2025	136

Ground source heat pumps – inverter

Inverter							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				WPE-I 12.1 Plus HW 230	207186	01.2025	250
				WPE-I 07.1 Plus HW 400	207180	01.2025	250
				WPE-I 12.1 Plus HW 400	207181	01.2025	250
				WPE-I 07.1 Plus HW 230	207185	01.2025	250
				WPE-I 07.1 Plus H 230	207183	01.2025	252
				WPE-I 07.1 Plus H 400	207177	01.2025	252
				WPE-I 12.1 Plus H 230	207184	01.2025	252
				WPE-I 12.1 Plus H 400	207178	01.2025	252

Accessories for ground source heat pumps

Accessories							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				AWG 80	207743	01.2025	294
				AHP-TC	207744	01.2025	294
				AHP-PH	207742	01.2025	295

Control units

Controller							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
WPM international	236000	06.2025	300				
				WPM Connect International	207709	03.2025	301

Buffer cylinder

Buffer cylinder							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				SBP 100 classic	235200	01.2025	334
				SBP 400 Plus cool	205296	01.2025	334
				SBP 200 Plus cool	205295	01.2025	334
				STH 415 C Plus	205370	01.2025	335
				STH 210 C Plus	205369	01.2025	335

Central ventilation units

Supply and extract air with heat recovery, wall mounting							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				VRC-W 600 Premium	204714	01.2025	403
				VRC-W 450 Premium	204940	01.2025	403
				VRC-W 450 E Premium	204941	01.2025	404
				VRC-W 600 E Premium	204715	01.2025	404

Accessories, central ventilation units

Accessories							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				LWTF W450/600	359304	01.2025	420
Controllers							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				FEB 2.1	206612	01.2025	422
				WLAN VRC .1	206611	01.2025	424
Filter							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				FMS EPMC 65-10 W450/600	206610	01.2025	429
				FMK EPM1 55-2 W450/600	206596	01.2025	429
				FMK EPA 12-2 W450/600	206597	01.2025	430

Distribution system for integral and central ventilation

LVE onfloor							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				LVE TB 75	207077	07.2024	434
LVS infloor							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				LVS RS 75	207074	07.2024	439
LWF system							
Phase out	Mat. no.	Available until	Page	Start	Product number	Available from	Page
				LWF RS 160 M - 125 N	207509	01.2025	447
				LWF SE 125	207073	07.2024	451

Convectors

Floorstanding appliances							
Phase out	**Mat. no.**	**Available until**	**Page**	**Start**	**Product number**	**Available from**	**Page**
				CNS 2000 Plus LCD Move	207060	10.2024	526
				CNS-B 2000 Plus LCD Move	207068	10.2024	526

Comfort instantaneous water heater		5
Remote controls for comfort instantaneous water heaters		23
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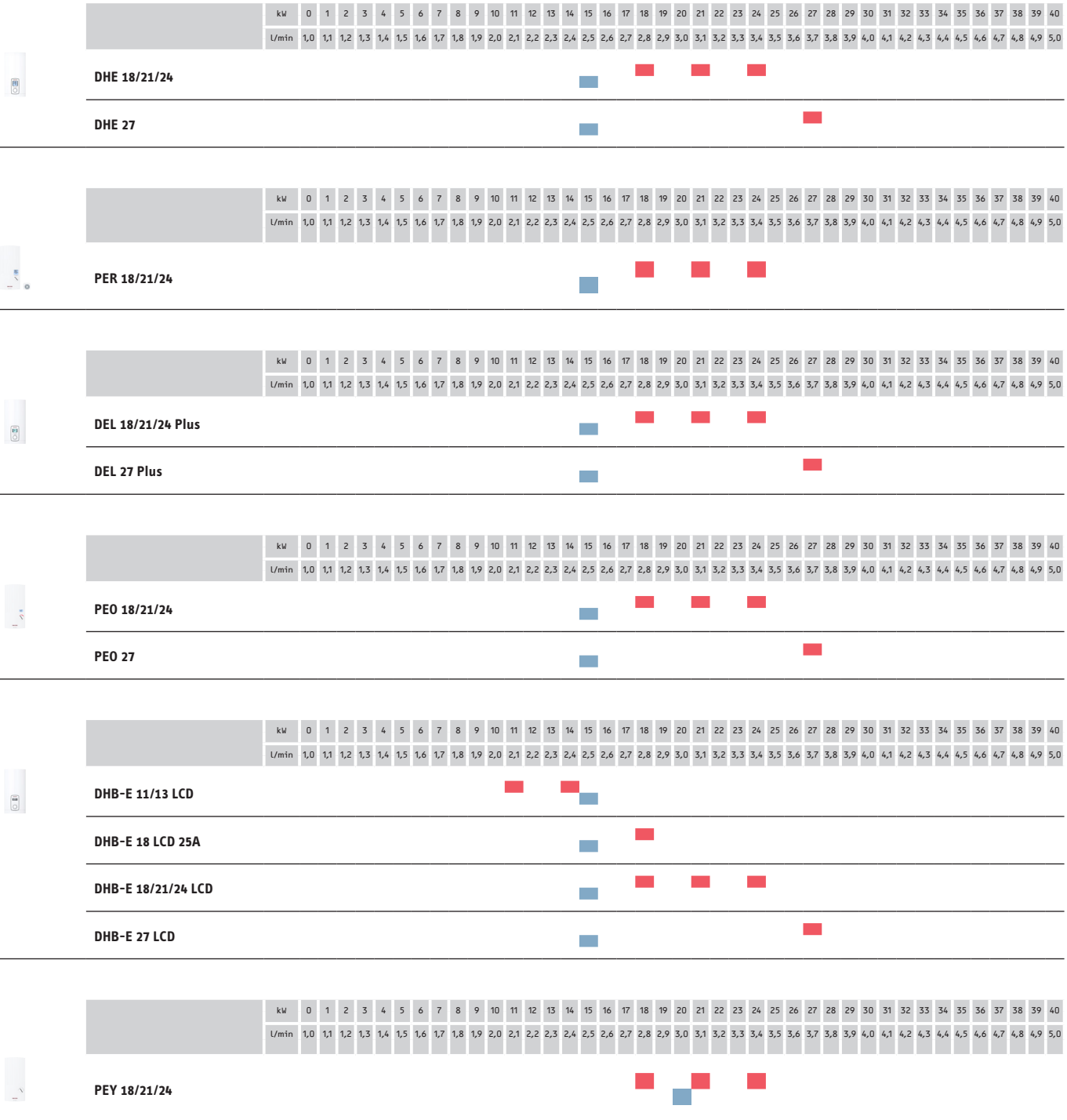
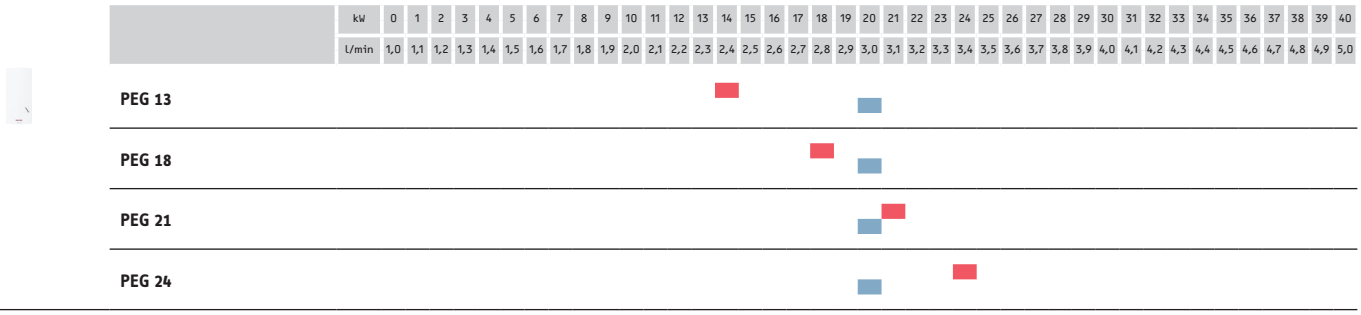
Application areas

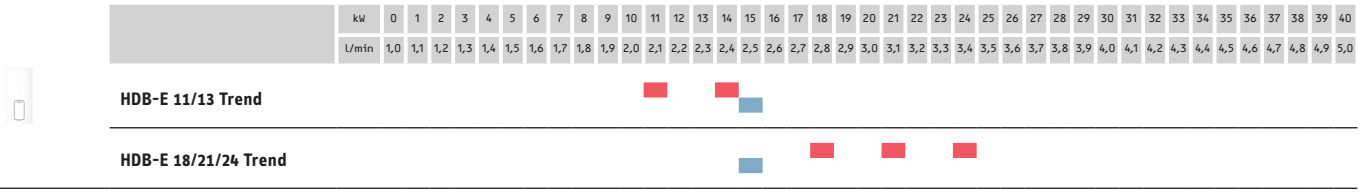
Rated output: Please note the rated output and fuse protection when selecting an instantaneous water heater

Starting flow rate: Please note the starting flow rate of the instantaneous water heater when selecting your fitting



Application areas





Application areas

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Electronic open-loop control
- **PEG** 18
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DHE

DHE 18/21/24

Benefits

- Maximum energy efficiency and accurate temperature delivery at all times thanks to fully electronic output control with 4i technology
- Optimum energy efficiency through selectable ECO mode
- Easy operation via large, illuminated multifunction display
- The temperature can be permanently restricted by the installer to 55, 50 or 43 °C; the temperature can be further restricted by the user (childproofing)
- Quick temperature selection with two memory buttons
- Greater convenience when installed undersink, since the appliance cover and the programming unit can be turned the other way up
- Suitable for reheating preheated water
- Safe operation thanks to extensive range of convenience and safety functions
- Quick installation with Profi-Rapid, the innovative installation concept
- Consumption indicator for transparent costs
- Highly flexible installation thanks to selectable appliance output – 18/21/24 kW in a single appliance (Product: 202656)

Application • This comfort instantaneous water heater can supply DHW to multiple draw-off points, e.g. simultaneous supply to the bathroom and kitchen. • The unvented, pressure-tested appliance can be combined with all commercially available pressure taps.

Convenience features • The fully electronically controlled instantaneous water heater ensures accurate temperature delivery at all times thanks to electronic flow rate control. • The temperature can be variably and digitally adjusted in 0.5 °C increments using a rotary selector. • The backlit multifunction display not only shows the set temperature, but also various other values such as current power consumption, energy consumption, flow rate and time. Status and service information is also displayed. • The ECO button and two memory buttons for rapid call-up of programmed preferred temperatures ensure efficiency and convenience. • Four wellness shower programs and automated bath filling provide a high level of hot water convenience. • The LED indicator warns against scalding if the water temperature exceeds 43 °C, or if the temperature of preheated water is unexpectedly high. • The current inlet temperature is shown in the lower section. • The temperature limit can be set individually and used as anti-scalding protection. • An optional convenient remote control is available as an accessory.

Efficiency • The appliance achieves energy and water savings of up to 30 % through full electronic output control with 4i technology. Three sensors and an additional motorised valve ensure that the set temperature is achieved to the exact degree at all times. Only the amount of energy actually required for this is expended; there is no need to add cold water at the tap, which leads to very high energy efficiency. • An additional feature is the individually selectable ECO mode for particularly economical operation. • The information about energy and water consumption encourages economical usage. • Instantaneous water heater suitable for operation with preheated water.

Installation • With undersink installation, the appliance cover and programming unit can be turned the other way up for a high level of operating convenience. • The improved PROFI-RAPID installation system is integrated for fast installation. Common instantaneous water heaters are quick to replace. • Wall mounting is very simple thanks to the universal mounting rail. Suitable for commonly used fixing points; any unevenness in the wall and drill hole discrepancies are easily compensated for. • For quick and universal water connection, the appliance features an enlarged installation area with pivoting cold water inlet, threaded water fittings and twin nipple connections. • It is suitable for flush and surface mounting, with 3-way shut-off valves. • The appliance can be connected to plastic pipework as long as the manufacturer's instructions are followed. • The mains connection is also quick and easy. It can be made from above or below, with an integral cable insertion aid.

Service: • Simplified fault analysis through integral LED diagnostic traffic light and fault memory which can be called up on the display. • The complete internal assembly can be removed with just one hand movement, if required.

Safety • The quick-action bare wire heating system is suitable for hard and soft water. • The electronic safety concept operates with air detection. • Permanent anti-scalding protection is set by an installer.

		DHE 18/21/24	DHE 27
Part number		**202656**	**202657**
Specification			
Rated voltage	V	400	400
Rated voltage 1	V	380	380
Rated voltage 2	V	400	400

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		DHE 18/21/24	DHE 27
Rated voltage 3	V	415	
Rated output	kW	18/21/24	27
Rated output 1	kW	16,2/19/21,7	24,4
Rated output 2	kW	18/21/24	27
Rated output 3	kW	19,4/22,6/25,8	
Rated current	A	29/31/35	39
Rated current 1	A	27,6/29,5/33,3	37,1
Rated current 2	A	29/31/35	39
Rated current 3	A	30,1/32,2/36,3	
Fuse protection	A	32/32/35	40
Fuse protection 1	A	32/32/35	40
Fuse protection 2	A	32/32/35	40
Fuse protection 3	A	32/32/40	
Frequency	Hz	50/60	50/-
Frequency 1	Hz	50/60	50/-
Frequency 2	Hz	50/60	50/-
Frequency 3	Hz	50/-	
Phases		3/PE	3/PE
Conductivity σ15 ≤	µS/cm	1111	1111
Resistivity ρ15 ≥	Ω cm	900	900
Switch-on water flow rate	l/min	>2,5	>2,55
IP rating		IP25	IP25
Temperature setting	°C	20-60	20-60
Colour		white	white
Height	mm	466	466
Width	mm	225	225
Depth	mm	116	116
Weight	kg	3.10	3.10
Energy efficiency class		A	A

Recommended accessories			
Part number		**234478**	**234478**
Type		FFB 4 EU	FFB 4 EU
Description		Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters
Part number		**238930**	**238930**
Type		FFB 4 Set EU	FFB 4 Set EU
Description		Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters

PER

PER 18/21/24

Benefits

- Very high temperature convenience with this fully electronic instantaneous water heater
- Consistent outlet temperatures regardless of fluctuations in pressure, inlet temperature or voltage
- Accurate temperature selection and easy-to-read LCD screen with 2-colour backlighting
- Very high shower convenience thanks to quick-acting control electronics
- Precise water temperature at maximum flow rate thanks to processor-controlled motorised valve
- Suitable for reheating water up to 60 °C, e.g. from solar thermal systems
- Multifunction display with backlighting
- Display of temperature, flow rate, energy consumption or time
- Two individually adjustable temperatures can be called up via memory buttons
- Convenience functions: ECO button, automatic water volume control, shower program
- Energy saving operation with ECO function
- Electronic air bubble detection
- Effective bare wire heating system

Application • This fully electronically controlled comfort instantaneous water heater supplies DHW conveniently and energy efficiently to multiple draw-off points, for example the bathroom and the kitchen. • This unvented, pressure-tested appliance can be used with preheated water from a solar thermal system or heat pump and with all commercially available pressure taps.

Convenience features • The temperature can be set to the exact degree via the 2-colour backlit digital multifunction display. The temperature, flow rate, energy consumption and time are easy to read. • The preferred temperature can be easily set to suit individual needs via two memory buttons. • The ECO button, automatic water volume control and the shower program offer additional operating convenience. • Accurate temperature delivery at all times with demand-dependent flow rate thanks to processor-controlled motorised valve. • Buttons allow one-off selection of the required temperature for the next draw-off.

Efficiency • With the individually selectable ECO mode, particularly energy efficient operation is possible. • The accurate temperature delivery at all times and precise flow rate further increase the overall efficiency of the instantaneous water heater.

Installation • All commercially available unvented taps can be connected easily. • Installation is facilitated by the separate mounting plate and quick-release toggle. The installation template is included in the standard delivery. • Easy mains connection, either from above or below. • The appliance cover can be removed from the front with no screws. • Undersink installation is possible with the correct accessories.

Safety • The quick-action bare wire heating system is suitable for hard and soft water. • The multi stage safety concept detects air bubbles in the system and automatically deactivates the appliance if the pressure is too high.

		PER 18/21/24
Part number		**233990**
Specification		
Rated voltage	V	400
Rated voltage 1	V	380
Rated voltage 2	V	400
Rated voltage 3	V	415
Rated output	kW	18/21/24
Rated output 1	kW	16,2/19/21,7
Rated output 2	kW	18/21/24
Rated output 3	kW	19,4/22,6/25,8
Rated current	A	29/31/35
Rated current 1	A	27,6/29,5/33,3
Rated current 2	A	29/31/35
Rated current 3	A	30,1/32,2/36,3
Fuse protection	A	32/32/35
Fuse protection 1	A	32/32/35
Fuse protection 2	A	32/32/35

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		PER 18/21/24
Fuse protection 3	A	32/32/40
Frequency	Hz	50/60
Frequency 1	Hz	50/60
Frequency 2	Hz	50/60
Frequency 3	Hz	50/-
Phases		3/PE
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 380 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 400 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 415 V)	µS/cm	1000
Conductivity σ15 ≤ (at ϑcold > 25°C and 380 V)	µS/cm	833
Conductivity σ15 ≤ (at ϑcold > 25°C and 400 V)	µS/cm	833
Conductivity σ15 ≤ (at ϑcold > 25°C and 415 V)	µS/cm	770
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 380 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 400 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 415 V)	Ω cm	1000
Resistivity ρ15 ≥ (at ϑcold > 25°C and 380 V)	Ω cm	1200
Resistivity ρ15 ≥ (at ϑcold > 25°C and 400 V)	Ω cm	1200
Resistivity ρ15 ≥ (at ϑcold > 25°C and 415 V)	Ω cm	1300
Switch-on water flow rate	l/min	>2,5
Temperature setting	°C	30-60
Colour		white
Height	mm	485
Width	mm	226
Depth	mm	93
Weight	kg	3.80
Energy efficiency class		A

Incl. wireless remote control (Product: 233990)

DEL Plus

DEL 18/21/24 Plus

Benefits

- Maximum energy efficiency and accurate temperature delivery with 3i technology and electronic closed-loop control
- High hot water convenience and energy savings thanks to three-stage ECO mode with flow rate limitation
- No fixed flow limiter in the cold water inlet
- Illuminated multifunction display
- The temperature can be permanently restricted by the installer to 55, 50 or 43 °C; the temperature can be further restricted by the user (childproofing)
- Quick installation with PROFI-RAPID
- Suitable for preheated water up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- Greater convenience when installed undersink, since the appliance cover and the programming unit can be turned the other way up
- Quick temperature selection with two memory buttons
- Highly flexible installation thanks to selectable appliance output – 18/21/24 kW in a single appliance (Product: 236739)

Application • This comfort instantaneous water heater with electronic closed-loop control achieves accurate temperature delivery up the maximum output. • The unvented, pressure-tested appliance supplies DHW conveniently and energy efficiently to multiple draw-off points, for example the bathroom and the kitchen. • It is suitable for all commercially available pressure taps. • Highly convenient undersink installation, since the appliance cover and the programming unit can be turned the other way up.

Convenience features • Set temperature, current power consumption, and status and service information are easy to read on the backlit multifunction display. • The preferred temperature can be variably and digitally adjusted via a rotary selector. For showers, the temperature can be adjusted in very precise 0.5 °C increments. • Memory function for two programmable preferred temperatures. • An LED indicator warns of scalding at temperatures above 43 °C, as well as in the case of unexpectedly high outlet temperatures due to preheated water. • Individually adjustable childproofing provides additional safety by limiting the maximum temperature.

Efficiency • Energy and water savings of up to 30 % through electronic output control. • 3i technology with three sensors ensures that the set temperature is reached. This saves a lot of energy, because there is no need to add cold water at the tap. • The individually selectable, three-level ECO mode replaces the fixed flow limiter and ensures particularly energy efficient operation.

Installation • The PROFI-RAPID installation system is used for quick installation. All common instantaneous water heaters are easy to replace. • The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies, and is also suitable for commonly used fixing points. • Fast, universal water connection thanks to the enlarged installation area with pivoting cold water inlet. • Threaded water fittings and twin nipple connections for easy replacement. • Surface-mounted or flush-mounted installation. • Suitable for plastic pipes (observe manufacturer's instructions). • Easy mains connection, either from above or below. • Cable insertion aid.

Service • Fast fault analysis through LED diagnostic traffic light and fault memory which can be called up on the display. • Internal assembly can be removed with just one hand movement.

Safety • Quick-action bare wire heating system, suitable for hard and soft water. • Electronic safety concept detects air bubbles in the system. • To permanently limit the outlet temperature of the water, an installer can set anti-scalding protection.

		DEL 18/21/24 Plus	DEL 27 Plus
Part number		**236739**	**236740**
Specification			
Rated voltage	V	400	400
Rated voltage 1	V	380	380
Rated voltage 2	V	400	400
Rated voltage 3	V	415	
Rated output	kW	18/21/24	27
Rated output 1	kW	16,2/19/21,7	24,4
Rated output 2	kW	18/21/24	27
Rated output 3	kW	19,4/22,6/25,8	
Rated current	A	29/31/35	39

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		DEL 18/21/24 Plus	DEL 27 Plus
Rated current 1	A	27,6/29,5/33,3	37,1
Rated current 2	A	29/31/35	39
Rated current 3	A	30,1/32,2/36,3	
Fuse protection	A	32/32/35	40
Fuse protection 1	A	32/32/35	40
Fuse protection 2	A	32/32/35	40
Fuse protection 3	A	32/32/40	
Frequency	Hz	50/60	50/-
Frequency 1	Hz	50/60	50/-
Frequency 2	Hz	50/60	50/-
Frequency 3	Hz	50/-	
Phases		3/PE	3/PE
Conductivity σ15 ≤	µS/cm	1111	1111
Resistivity ρ15 ≥	Ω cm	900	900
Switch-on water flow rate	l/min	>2,5	>2,5
IP rating		IP25	IP25
Temperature setting	°C	20-60	20-60
Colour		white	white
Height	mm	466	466
Width	mm	225	225
Depth	mm	116	116
Weight	kg	3.10	3.10
Energy efficiency class		A	A

Recommended accessories			
Part number		**234478**	**234478**
Type		FFB 4 EU	FFB 4 EU
Description		Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters
Part number		**238930**	**238930**
Type		FFB 4 Set EU	FFB 4 Set EU
Description		Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters

Electronic closed-loop control

PEO

PEO 18/21/24

Benefits

- Electronic instantaneous water heater for optimum temperature convenience
- Consistent outlet temperatures regardless of fluctuations in pressure, inlet temperature or voltage
- Temperature selection to the exact degree with easy-to-read LCD screen
- Two-colour backlighting (blue/red)
- Very high shower convenience thanks to quick-acting control electronics
- Integral diagnostic system
- Electronic air bubble detection
- Effective bare wire heating system
- Highly flexible installation thanks to selectable appliance output – 18/21/24 kW in a single appliance (Product: 233991)

Application • This comfort instantaneous water heater is suitable for DHW supply to multiple draw-off points. • The unvented, pressure-tested appliance can be combined with commercially available pressure taps.

Convenience features • Electronic closed-loop control allows precise temperature selection. • The appliance is equipped with an easy-to-read, 2-colour LCD screen. The display also acts as visual anti-scalding protection: at temperatures above 43 °C, the colour changes from blue to red.

Efficiency • Accurate temperature delivery is made possible by electronic closed-loop control. • The instantaneous water heater is suitable for preheated water from solar thermal and heat pump systems.

Installation • Easy installation thanks to separate mounting plate and twist lock. An installation template is included in the standard delivery. • The appliance cover is removed from the front with no screws. • The mains connection is made from above or below via a permanent connection. • Undersink installation is possible with the appropriate accessories. • Integral diagnostic system.

Safety • The bare wire heating system is suitable for hard and soft water. • The multi stage safety concept includes a safety high pressure switch and an electronic air detection system.

		PEO 18/21/24	PEO 27
Part number		**233991**	**233992**
Specification			
Rated voltage	V	400	400
Rated voltage 1	V	380	380
Rated voltage 2	V	400	400
Rated voltage 3	V	415	
Rated output	kW	18/21/24	27
Rated output 1	kW	16,2/19/21,7	24,4
Rated output 2	kW	18/21/24	27
Rated output 3	kW	19,4/22,6/25,8	
Rated current	A	29/31/35	39
Rated current 1	A	27,6/29,5/33,3	37,1
Rated current 2	A	29/31/35	39
Rated current 3	A	30,1/32,2/36,3	
Fuse protection	A	32/32/35	40
Fuse protection 1	A	32/32/35	40
Fuse protection 2	A	32/32/35	40
Fuse protection 3	A	32/32/40	
Frequency	Hz	50/60	50/60
Frequency 1	Hz	50/60	50/60
Frequency 2	Hz	50/60	50/60
Frequency 3	Hz	50/-	
Phases		3/PE	3/PE
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 380 V)	µS/cm	1111	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 400 V)	µS/cm	1111	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 415 V)	µS/cm	1000	

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		PEO 18/21/24	PEO 27
Conductivity σ15 ≤ (at ϑcold > 25°C and 380 V)	µS/cm	833	833
Conductivity σ15 ≤ (at ϑcold > 25°C and 400 V)	µS/cm	833	833
Conductivity σ15 ≤ (at ϑcold > 25°C and 415 V)	µS/cm	770	
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 380 V)	Ω cm	900	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 400 V)	Ω cm	900	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 415 V)	Ω cm	1000	
Resistivity ρ15 ≥ (at ϑcold > 25°C and 380 V)	Ω cm	1200	1200
Resistivity ρ15 ≥ (at ϑcold > 25°C and 400 V)	Ω cm	1200	1200
Resistivity ρ15 ≥ (at ϑcold > 25°C and 415 V)	Ω cm	1300	
Switch-on water flow rate	l/min	>2,5	>2,5
IP rating		IP25	IP25
Temperature setting	°C	30-60	30-60
Colour		white	white
Height	mm	485	485
Width	mm	226	226
Depth	mm	93	93
Weight	kg	3.60	3.60
Energy efficiency class		A	A

DHB-E LCD

DHB-E 11/13 LCD

Benefits

- Maximum energy efficiency and accurate temperature delivery with 3i technology and electronic closed-loop control
- Temperature shown on the LCD screen
- Precise temperature selection via rotary selector
- Suitable for preheated water up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- Greater convenience when installed undersink, since the appliance cover and the programming unit can be turned the other way up
- Quick installation with PROFI-RAPID
- High safety level as anti-scalding protection can be permanently activated
- Wide selection of models
- Optimum solution for the kitchen sink, with selectable 11 or 13.5 kW output (Product: 236743)
- Suitable for system with 25 A fuse protection (Product: 236744)
- Highly flexible installation thanks to selectable appliance output – 18/21/24 kW in a single appliance (Product: 236745)

Application • This comfort instantaneous water heater supplies DHW simultaneously to multiple draw-off points, for example the bathroom and the kitchen. • The sealed, pressure-tested appliance can be combined with all commercially available pressure taps.

Convenience features • The instantaneous water heater with electronic closed-loop control ensures accurate temperature delivery up to the maximum output. • The temperature is variably and digitally adjusted via a rotary selector and displayed on the LCD screen. • An optional convenient remote control can be added. • To ensure highly convenient undersink installation, both the appliance cover and the programming unit can be turned the other way up.

Efficiency • The appliance ensures energy and water savings of up to 30 % through electronic output control with 3i technology. 3 sensors ensure that the set temperature is achieved to the exact degree up to the output limit. For this, only the amount of energy actually required is expended. There is no need to add cold water at the tap, which leads to very good energy efficiency. • The appliance is suitable for preheated water.

Installation • Quick and easy installation with the improved PROFI-RAPID installation system. Straightforward replacement for all standard instantaneous water heaters. For fast wall mounting, a universal mounting rail is provided, which is suitable for commonly used fixing points, and also compensates for any unevenness in the wall and drill hole discrepancies. • Fast, universal water connection thanks to enlarged installation area with pivoting cold water inlet and threaded water fittings. • Twin nipple connections for easy replacement. • Option of flush or surface mounting with 3-way shut-off. The instantaneous water heater can be connected to plastic pipework; the manufacturer's instructions must be observed. • Easy mains connection from above or below; a cable insertion aid is provided.

Service • Fast fault analysis with integral LED diagnostic traffic light. • The internal assembly can be removed with just one hand movement.

Safety • The quick-action bare wire heating system is suitable for hard and soft water. • The electronic safety concept is equipped with air detection. • Anti-scalding protection is set by an installer, and permanently limits the water outlet temperature.

		DHB-E 11/13 LCD	DHB-E 18 LCD 25A	DHB-E 18/21/24 LCD	DHB-E 27 LCD
Part number		**236743**	**236744**	**236745**	**236746**
Specification					
Rated voltage	V	400	400	400	400
Rated voltage 1	V	380	380	380	380
Rated voltage 2	V	400	400	400	400
Rated voltage 3	V	415	415	415	
Rated output	kW	11/13,5	18	18/21/24	27
Rated output 1	kW	9,9/12,2	16,2	16,2/19/21,7	24,4
Rated output 2	kW	11/13,5	18	18/21/24	27
Rated output 3	kW	11,8/14,5	19,4	19,4/22,6/25,8	
Rated current	A	17,5/19,5	26	29/31/35	39
Rated current 1	A	16,6/18,5	24,7	27,6/29,5/33,3	37,1
Rated current 2	A	17,5/19,5	26	29/31/35	39
Rated current 3	A	18,2/20	27	30,1/32,2/36,3	

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		DHB-E 11/13 LCD	DHB-E 18 LCD 25A	DHB-E 18/21/24 LCD	DHB-E 27 LCD
Fuse protection	A	20	25	32/32/35	40
Fuse protection 1	A	20	25	32/32/35	40
Fuse protection 2	A	20	25	32/32/35	40
Fuse protection 3	A	20	32	32/32/40	
Frequency	Hz	50/60	50/60	50/60	50/-
Frequency 1	Hz	50/60	50/60	50/60	50/-
Frequency 2	Hz	50/60	50/60	50/60	50/-
Frequency 3	Hz	50/-	50/-	50/-	
Phases		3/PE	3/PE	3/PE	3/PE
Conductivity σ15 ≤	µS/cm	1111	1111	1111	1111
Resistivity ρ15 ≥	Ω cm	900	900	900	900
Switch-on water flow rate	l/min	>2,5	>2,5	>2,5	>2,5
IP rating		IP25	IP25	IP25	IP25
Temperature setting	°C	20-60	20-60	20-60	20-60
Colour		white	white	white	white
Height	mm	466	466	466	466
Width	mm	225	225	225	225
Depth	mm	116	116	116	116
Weight	kg	2.80	2.90	2.90	2.90
Energy efficiency class		A	A	A	A

Recommended accessories					
Part number		**234478**	**234478**	**234478**	**234478**
Type		FFB 4 EU	FFB 4 EU	FFB 4 EU	FFB 4 EU
Description		Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters
Part number		**238930**	**238930**	**238930**	**238930**
Type		FFB 4 Set EU	FFB 4 Set EU	FFB 4 Set EU	FFB 4 Set EU
Description		Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters	Wireless remote control for electronic instantaneous water heaters

PEY

PEY 18/21/24

Benefits
- Accurate temperature delivery up to the output limit with electronic closed-loop control
- Consistent outlet temperatures regardless of fluctuations in pressure, inlet temperature or voltage
- Temperature setting 30 °C - 60 °C
- Highly stable temperatures are ensured by the quick-acting control electronics
- Electronic air bubble detection
- Effective bare wire heating system
- Highly flexible installation thanks to selectable appliance output – 18/21/24 kW in a single appliance (Product: 233993)

Application • This comfort instantaneous water heater with electronic closed-loop control supplies DHW conveniently and energy efficiently to multiple draw-off points, for example the bathroom and the kitchen. • The unvented, pressure-tested appliance can be connected to all commercially available pressure taps. • The instantaneous water heater can be operated with preheated water from solar thermal systems or heat pumps.

Convenience features • The instantaneous water heater has fast control electronics and an integral diagnostic system. • Variable temperature selection is carried out via a rotary selector with analogue scale.

Efficiency • Energy saving operation is possible thanks to accurate temperature delivery.

Installation • Easy connection to all commercially available unvented taps. • Installation is greatly facilitated by the separate mounting plate and the twist lock. The installation template is included in the standard delivery. • The appliance is connected from above or below via a permanent electrical connection. • The appliance cover is removed from the front with no screws. • Undersink installation is possible with the correct accessories.

Service • A diagnostic system is integrated for fast fault analysis.

Safety • The bare wire heating system is suitable for hard and soft water. • The multi stage safety concept detects air bubbles in the system and automatically deactivates the appliance if the pressure is too high.

		PEY 18/21/24
Part number		**233993**
Specification		
Rated voltage	V	400
Rated voltage 1	V	380
Rated voltage 2	V	400
Rated voltage 3	V	415
Rated output	kW	18/21/24
Rated output 1	kW	16,2/19/21,7
Rated output 2	kW	18/21/24
Rated output 3	kW	19,4/22,6/25,8
Rated current	A	29/31/35
Rated current 1	A	27,6/29,5/33,3
Rated current 2	A	29/31/35
Rated current 3	A	30,1/32,2/36,3
Fuse protection	A	32/32/35
Fuse protection 1	A	32/32/35
Fuse protection 2	A	32/32/35
Fuse protection 3	A	32/32/40
Frequency	Hz	50/60
Frequency 1	Hz	50/60
Frequency 2	Hz	50/60
Frequency 3	Hz	50/-
Phases		3/PE
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 380 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 400 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 415 V)	µS/cm	1000

next page >

		PEY 18/21/24
Conductivity σ15 ≤ (at ϑcold > 25°C and 380 V)	µS/cm	833
Conductivity σ15 ≤ (at ϑcold > 25°C and 400 V)	µS/cm	833
Conductivity σ15 ≤ (at ϑcold > 25°C and 415 V)	µS/cm	770
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 380 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 400 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 415 V)	Ω cm	1000
Resistivity ρ15 ≥ (at ϑcold > 25°C and 380 V)	Ω cm	1200
Resistivity ρ15 ≥ (at ϑcold > 25°C and 400 V)	Ω cm	1200
Resistivity ρ15 ≥ (at ϑcold > 25°C and 415 V)	Ω cm	1300
Switch-on water flow rate	l/min	>3
Temperature setting	°C	30-60
Colour		white
Height	mm	485
Width	mm	226
Depth	mm	93
Weight	kg	3.60
Energy efficiency class		A

PEG

PEG 13

Benefits
- Hot water at the preferred temperature due to electronic control
- Two fixed temperatures with application symbols
- Largely consistent outlet temperatures in the event of pressure or supply temperature fluctuations
- Electronic air bubble detection
- Effective bare wire heating system

Application • This comfort instantaneous water heater with electronic open-loop control supplies energy efficient DHW even to multiple draw-off points, for example the bathroom and the kitchen. • The unvented, pressure-tested appliance can be connected to all commercially available pressure taps.

Convenience features • Two temperatures can be set via a rotary selector. They are then permanently set and indicated by application symbols on the appliance.

Efficiency • Energy saving operation even with fluctuating water pressure or cold water inlet temperature. Quick acting control electronics keep the temperature of the DHW largely consistent, which enhances the efficiency of the system.

Installation • Straightforward connection to all commercially available unvented taps. • Installation is facilitated by the separate mounting plate with twist lock. An installation template is included in the standard delivery. • The power supply is via a permanent connection from above or below. • The appliance cover can be removed from the front with no screws. • Undersink installation is possible with the correct accessories.

Service • Fast fault analysis is guaranteed by the integral diagnostic system.

Safety • The bare wire heating system is suitable for hard and soft water. • The multi stage safety concept detects air bubbles in the system and automatically deactivates the appliance if the pressure is too high.

		PEG 13	PEG 18	PEG 21	PEG 24
Part number		**233994**	**233995**	**233996**	**233997**
Specification					
Rated voltage	V	400	400	400	400
Rated voltage 1	V	380	380	380	380
Rated voltage 2	V	400	400	400	400
Rated output	kW	13,5	18	21	24
Rated output 1	kW	12,2	16,2	19	21,7
Rated output 2	kW	13,5	18	21	24
Rated current	A	19,5	26	31	35
Rated current 1	A	18,5	24,7	29,5	33,3
Rated current 2	A	19,5	26	31	35
Fuse protection	A	20	25	32	35
Fuse protection 1	A	20	25	32	35
Fuse protection 2	A	20	25	32	35
Frequency	Hz	50/60	50/60	50/60	50/60
Frequency 1	Hz	50/60	50/60	50/60	50/60
Frequency 2	Hz	50/60	50/60	50/60	50/60
Phases		3/PE	3/PE	3/PE	3/PE
Conductivity σ15 ≤	µS/cm	909	909	909	909
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 380 V)	µS/cm	900	900	900	900
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 400 V)	µS/cm	900	900	900	900
Resistivity ρ15 ≥	Ω cm	1100	1100	1100	1100
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 380 V)	Ω cm	1100	1100	1100	1100
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 400 V)	Ω cm	1100	1100	1100	1100
Switch-on water flow rate	l/min	>3,0	>3,0	>3,0	>3,0
Temperature setting	°C	42-55	42-55	42-55	42-55
Colour		white	white	white	white
Height	mm	485	485	485	485
Width	mm	226	226	226	226

next page >

		PEG 13	PEG 18	PEG 21	PEG 24
Depth	mm	93	93	93	93
Weight	kg	3.60	3.60	3.60	3.60
Energy efficiency class		A	A	A	A

HDB-E Trend

HDB-E 11/13 Trend

Benefits

- Stable delivery of preferred temperature due to electronic open-loop control with two sensors (2i technology).
- Temperature is fixed by the installer. Anti-scalding protection.
- Flexibility during installation thanks to four device versions: 11/13 kW (selectable), 18 kW 25 A, 18/21/24 kW (selectable), 27 kW
- Multi stage electronic safety concept with air bubble detection and high limit safety cut-out.
- Horizontal installation is possible. The HDB E Trend can also be installed in suspended ceilings.
- Preinstalled flow limiter maintains highly stable temperatures even in winter when cold water temperature is low
- Quick and easy installation thanks to the Profi-Rapid installation system.
- Optimum solution for the kitchen sink, with selectable 11 or 13.5 kW output (Product: 204208)
- Highly flexible installation thanks to selectable appliance output – 18/21/24 kW in a single appliance (Product: 204209)

Application • This instantaneous water heater also supplies DHW conveniently and energy efficiently to multiple draw-off points, for example in the bathroom or kitchen. • The unvented, pressure-tested appliance is combined with commercially available pressure taps.

Convenience features • Precise DHW temperature to the output limit thanks to 2i technology. • The required DHW temperature can be set by a qualified contractor on the appliance via a 4-stage pin strip.

Efficiency • 2i technology with 2 sensors ensures that the preset temperature is reached up to the output limit. For this, only the amount of energy actually required is expended, which leads to higher energy efficiency.

Installation • Very quick installation with the improved PROFI-RAPID installation system. Standard instantaneous water heaters can be easily replaced. The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies and is designed to match commonly used fixing points. • Fast, universal water connection is ensured thanks to the enlarged installation area with pivoting cold water inlet. Replacement is straightforward thanks to the threaded water connections and the twin nipple connections. • The 3-way ball shut-off valve enables flush-mounted or surface-mounted installation. • The appliance can also be connected to plastic pipework as long as the pipe manufacturer‘s instructions are followed. • Straightforward mains connection, either from above or below. A cable insertion aid is provided.

Service • An LED diagnostic traffic light is built in for fast fault analysis. • The internal assembly can be removed with just one hand movement.

Safety • The quick-action bare wire heating system is suitable for hard and soft water. • The electronic safety concept is equipped with air detection. • A qualified contractor can permanently limit the water outlet temperature for anti-scalding protection or childproofing.

		HDB-E 11/13 Trend	HDB-E 18/21/24 Trend
Part number		**204208**	**204209**
Specification			
Rated voltage	V	400	400
Rated voltage 1	V	380	380
Rated voltage 2	V	400	400
Rated output	kW	11/13,5	18/21/24
Rated output 1	kW	9,9/12,2	16,2/19/21,7
Rated output 2	kW	11/13,5	18/21/24
Rated current	A	17,5/19,5	29/31/35
Rated current 1	A	16,6/18,5	27,6/29,5/33,3
Rated current 2	A	17,5/19,5	29/31/35
Fuse protection	A	20	32/32/35
Fuse protection 1	A	20	32/32/35
Fuse protection 2	A	20	32/32/35
Frequency	Hz	50/60	50/60
Frequency 1	Hz	50/60	50/60
Frequency 2	Hz	50/60	50/60
Phases		3/PE	3/PE
Conductivity σ15 ≤	µS/cm	1111	1111
Resistivity ρ15 ≥	Ω cm	900	900

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		HDB-E 11/13 Trend	HDB-E 18/21/24 Trend
Switch-on water flow rate	l/min	>2,5	>2,5
IP rating		IP25	IP25
Temperature setting	°C	35, 43, 50, 55 (400V)	35, 43, 50, 55 (400V)
Colour		white	white
Height	mm	466	466
Width	mm	225	225
Depth	mm	105	105
Weight	kg	2.80	2.90
Energy efficiency class		A	A

Wireless remote controls
Accessories 24

Wireless remote controls

FFB 4

FFB 4 Set EU

Benefits

- Additional wireless remote control with large LCD screen
- Variable temperature selection from 20 °C to 60 °C
- FFB 4 Set EU incl. wireless adaptor as basic equipment (Product: 238930)
- FFB 4 EU as second or additional wireless remote control (Product: 234478)

Description • These comfort instantaneous water heaters can be operated very conveniently with the wireless remote control. The remote control can also be used in the shower. A wall mounting bracket is included in the standard delivery. • Preferred temperatures can be set very easily using the plus and minus buttons or the programmable memory buttons. • The large LCD screen is easy to read. • Power save mode ensures an extended battery service life.

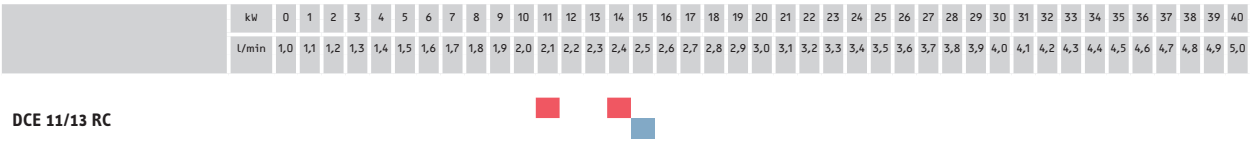
		FFB 4 Set EU	FFB 4 EU
Part number		**238930**	**234478**
Specification			
IP rating		IP X7	IP X7
Width	mm	65	65
Height	mm	132	132
Depth	mm	18,5	18,5

Battery and wall mounting bracket included in the standard delivery.

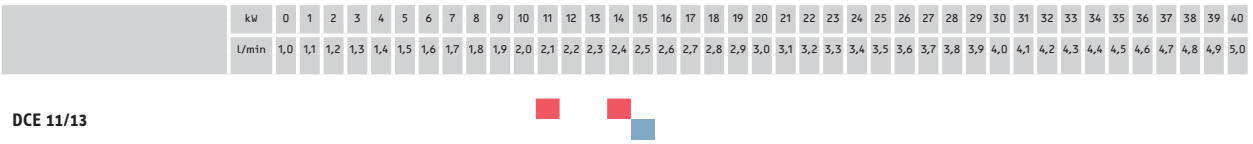
Application areas

Rated output: Please note the rated output and fuse protection when selecting an instantaneous water heater

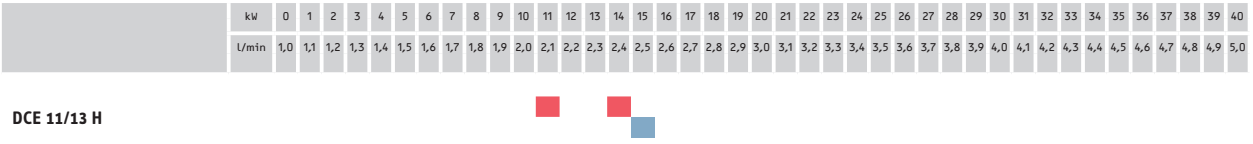
Starting flow rate: Please note the starting flow rate of the instantaneous water heater when selecting your fitting



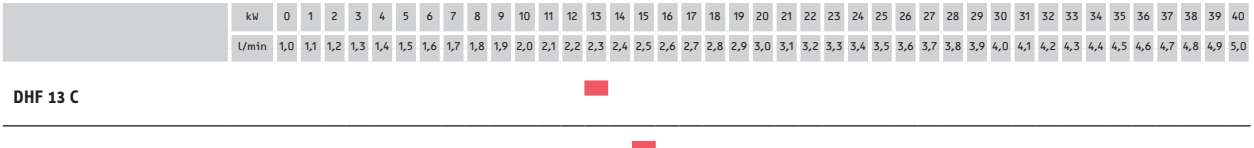
DCE 11/13 RC



DCE 11/13



DCE 11/13 H



DHF 13 C

DHF 15 C

DHF 18 C

DHF 21 C

Compact instantaneous water heaters, 3-phase

Electronic closed-loop control
- **DCE 11/13 RC** 28
- **DCE 11/13** 30
- **DCE 11/13 H** 32
- **DCE 11/13 H + MEKD** 34

Hydraulic control
- **DHF C** 35

DCE 11/13 RC

DCE 11/13 RC

Benefits

- Exceptionally slimline, compact design
- Particularly convenient and energy efficient thanks to electronic output control with 3i technology
- Standard delivery includes wireless remote control with two memory buttons
- Quick installation with PROFI-RAPID
- Multi stage electronic safety concept
- Undersink installation
- Selectable connected load 11 kW or 13.5 kW

Application • This instantaneous water heater with electronic closed-loop control takes up very little space in the kitchen due to its compact design. The appliance is uniquely flat thanks to its low installation depth, making it ideal for space saving installation under the kitchen sink. • In commercial settings, it is suitable for cleaning rooms or sanitary facilities with multiple hand washbasins. • International: With high inlet temperatures, the instantaneous water heater is also suitable for showers.

Convenience features • 3i technology ensures accurate temperature delivery up to the output limit. • The water is heated fast by the bare wire heating system. Electronic open-loop control keeps the preferred temperature constant up to the output limit. • The preferred temperature is set to the exact degree via the wireless remote control. • The connected load can be easily selected on the appliance.

Efficiency • 3i technology ensures energy and water savings of up to 30 % through electronic output control. Three sensors ensure that the set temperature is achieved to the exact degree up to the output limit. Energy savings are further assured by the appliance only using the amount of energy it actually requires. There is no need to add cold water at the tap, which additionally enhances the overall efficiency. • The instantaneous water heater is suited to operation with preheated water. • Water is heated directly at the draw-off point, which prevents thermal losses in the cylinder or pipework.

Installation • Quick and easy installation using the improved PROFI-RAPID installation system. • The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies, and is also suitable for commonly used fixing points. • Easy and secure wall mounting thanks to direct fitting through the appliance back panel. • Fast, universal water connection from above through external 3/8“ connections. Can be installed with a non-pressurised or pressure-tested tap and with plastic pipework. • Easy mains connection as the power cable is prepared for permanent connection as standard; the cable is included in the standard delivery. Upward cable routing avoids cabling in visible lower areas. • An installer can adjust the output to suit individual needs. • A rapid fault analysis is enabled by the LED diagnostic traffic light. • For installation, the appliance cover and internal assembly can be completely removed from the back panel without tools.

Safety • The bare wire heating system is suitable for hard and soft water. • A qualified contractor can activate anti-scalding protection in order to permanently limit the water outlet temperature. • The multi stage electronic safety concept comprises a high limit temperature switch, sensor controlled monitoring of heating element temperature, and air bubble detection.

		DCE 11/13 RC
Part number		**230771**
Specification		
Rated voltage	V	400
Rated voltage 1	V	380
Rated voltage 2	V	400
Rated voltage 3	V	415
Rated output	kW	11,2/13,5
Rated output 1	kW	10,1/12,2
Rated output 2	kW	11,2/13,5
Rated output 3	kW	12,1/14,5
Rated current	A	18,7/19,5
Rated current 1	A	17,8/18,5
Rated current 2	A	18,7/19,5
Rated current 3	A	19,4/20,2

next page >

		DCE 11/13 RC
Fuse protection	A	16/20
Fuse protection 1	A	16/20
Fuse protection 2	A	16/20
Fuse protection 3	A	20/20
Frequency	Hz	50/60
Frequency 1	Hz	50/60
Frequency 2	Hz	50/60
Frequency 3	Hz	50/-
Phases		3/PE
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 380 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 400 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 415 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold > 25 °C)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 380 V)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 400 V)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 415 V)	µS/cm	909
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 380 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 400 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 415 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold > 25 °C)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 380 V)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 400 V)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 415 V)	Ω cm	1100
Switch-on water flow rate	l/min	>2,5
IP rating		IP24
Temperature setting	°C	20-60
Colour		white
Height	mm	293
Width	mm	188
Depth	mm	85
Weight	kg	2.40
Energy efficiency class		A

Wireless remote control, power cable, tee and flexible pressure connection hose included in standard delivery.

DCE 11/13

DCE 11/13

Benefits
- Exceptionally slimline, compact design
- Particularly convenient and energy efficient thanks to electronic output control with 3i technology
- Quick installation with PROFI-RAPID
- Undersink installation
- Multi stage electronic safety concept
- Selectable connected load 11 kW or 13.5 kW

Application • This instantaneous water heater with electronic closed-loop control needs very little space due to its compact design. The appliance is uniquely flat thanks to its low installation depth, making it ideal for space saving installation under a washbasin or kitchen sink. • In commercial settings, it is suitable for cleaning rooms or sanitary facilities with multiple hand washbasins. • International: with high inlet temperatures, also suitable for showers.

Convenience features • 3i technology ensures accurate temperature delivery up to the output limit. • The water is heated fast by the bare wire heating system. Electronic open-loop control keeps the preferred temperature constant up to the output limit. It is variably adjusted by means of the rotary selector. • The connected load can be easily selected on the appliance.

Efficiency • 3i technology ensures energy and water savings of up to 30 % through electronic output control. Three sensors ensure that the set temperature is achieved to the exact degree up to the output limit. • Adding cold water at the tap is not necessary, as only the required energy is used. This further improves the overall efficiency of the appliance. • The instantaneous water heater can be operated with preheated water. • Water is heated directly at the draw-off point, which prevents thermal losses in the cylinder or pipework.

Installation • Quick and easy installation using the improved PROFI-RAPID installation system. • The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies, and is also suitable for commonly used fixing points. • Straightforward, stable wall mounting: direct fitting through the appliance back panel enables easy compensation for any wall unevenness. • Fast, universal water connection from above through external 3/8“ connections. Installation with a non-pressurised or pressure-tested tap; connection to plastic pipework is also possible. • Easy mains connection as the power cable is prepared for permanent connection as standard; the cable is included in the standard delivery. Upward cable routing avoids cabling in visible lower areas. • An installer can adjust the output to suit individual needs. • Fast fault analysis with LED diagnostic traffic light. • For installation, the appliance cover and entire internal assembly can be separated from the back panel without tools.

Safety • The bare wire heating system is suitable for hard and soft water. • An installer can activate anti-scalding protection, which permanently limits the water outlet temperature. • The multi stage electronic safety concept comprises a high limit temperature switch, sensor controlled monitoring of heating element temperature, and air bubble detection.

		DCE 11/13
Part number		**230770**
Specification		
Rated voltage	V	400
Rated voltage 1	V	380
Rated voltage 2	V	400
Rated voltage 3	V	415
Rated output	kW	11,2/13,5
Rated output 1	kW	10,1/12,2
Rated output 2	kW	11,2/13,5
Rated output 3	kW	12,1/14,5
Rated current	A	18,7/19,5
Rated current 1	A	17,8/18,5
Rated current 2	A	18,7/19,5
Rated current 3	A	19,4/20,2
Fuse protection	A	16/20
Fuse protection 1	A	16/20
Fuse protection 2	A	16/20

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		DCE 11/13
Fuse protection 3	A	20/20
Frequency	Hz	50/60
Frequency 1	Hz	50/60
Frequency 2	Hz	50/60
Frequency 3	Hz	50/-
Phases		3/PE
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 380 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 400 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 415 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold > 25 °C)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 380 V)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 400 V)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 415 V)	µS/cm	909
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 380 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 400 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 415 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold > 25 °C)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 380 V)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 400 V)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 415 V)	Ω cm	1100
Switch-on water flow rate	l/min	>2,5
IP rating		IP24
Temperature setting	°C	20 - 60
Colour		white
Height	mm	293
Width	mm	188
Depth	mm	99
Weight	kg	2.10
Energy efficiency class		A

Standard delivery: Power cable, tee and flexible pressure connection hose.

DCE 11/13 H

DCE 11/13 H

Benefits

- Exceptionally slimline, compact design
- Particularly convenient and energy efficient thanks to electronic output control with 3i technology
- Quick installation with PROFI-RAPID
- Oversink installation
- Multi stage electronic safety concept
- With power cable as standard
- Variable temperature selection via rotary selector

Application • This instantaneous water heater with electronic open-loop control needs very little space due to its compact design. Thanks to its exceptionally flat installation depth, this appliance is ideal for space saving oversink installation, e.g. for the kitchen sink. • In commercial settings, the instantaneous water heater is suitable for sinks in cleaning rooms. • Internationally, the appliance can also be used for showers if there are high inlet temperatures.

Convenience features • 3i technology with three sensors ensures that the preferred temperature is achieved to the exact degree up to the output limit. • The water is heated fast by the bare wire heating system. Electronic open-loop control keeps the preferred temperature constant. • The preferred temperature is set manually via a rotary selector.

Efficiency • 3i technology ensures energy and water savings of up to 30 % through electronic output control. Energy savings are further assured by the appliance only using the amount of energy it actually requires. There is no need to add cold water at the tap, which additionally enhances the overall efficiency of the appliance. • Water is heated directly at the draw-off point, which prevents thermal losses in the cylinder or pipework. • Instantaneous water heater suitable for operation with preheated water.

Installation • Quick installation is made possible with the improved PROFI-RAPID installation system. • The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies, and is also suitable for commonly used fixing points. • Straightforward, stable wall mounting: direct fitting through the appliance back panel enables easy compensation for any wall unevenness and drill hole discrepancies. • Quick, universal water connection from below through external G 1/2 A connections. Installation with a non-pressurised or pressure-tested tap. • Easy mains connection as the power cable is prepared for permanent connection as standard; the cable is included in the standard delivery. Upward cable routing avoids cabling in visible lower areas. • An installer can adjust the output to suit individual needs. • An LED diagnostic traffic light is integrated to be able to analyse faults quickly. • For installation, the appliance cover and internal assembly can be completely removed from the back panel without tools.

Safety • The bare wire heating system is suitable for hard and soft water. • To permanently limit the outlet temperature of the water, an installer can activate anti-scalding protection. • The multi stage electronic safety concept comprises a high limit temperature switch, sensor controlled monitoring of the heating element temperature, and detection of air bubbles in the system.

		DCE 11/13 H
Part number		**232792**
Specification		
Rated voltage	V	400
Rated voltage 1	V	380
Rated voltage 2	V	400
Rated voltage 3	V	415
Rated output	kW	11,2/13,5
Rated output 1	kW	10,1/12,2
Rated output 2	kW	11,2/13,5
Rated output 3	kW	12,1/14,5
Rated current	A	18,7/19,5
Rated current 1	A	17,8/18,5
Rated current 2	A	18,7/19,5
Rated current 3	A	19,4/20,2
Fuse protection	A	16/20
Fuse protection 1	A	16/20
Fuse protection 2	A	16/20

next page >

		DCE 11/13 H
Fuse protection 3	A	20/20
Frequency	Hz	50/60
Frequency 1	Hz	50/60
Frequency 2	Hz	50/60
Frequency 3	Hz	50/-
Phases		3/PE
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 380 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 400 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C and 415 V)	µS/cm	1111
Conductivity σ15 ≤ (at ϑcold > 25 °C)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 380 V)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 400 V)	µS/cm	909
Conductivity σ15 ≤ (at ϑcold > 25°C and 415 V)	µS/cm	909
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 380 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 400 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C and 415 V)	Ω cm	900
Resistivity ρ15 ≥ (at ϑcold > 25 °C)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 380 V)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 400 V)	Ω cm	1100
Resistivity ρ15 ≥ (at ϑcold > 25°C and 415 V)	Ω cm	1100
Switch-on water flow rate	l/min	>2,5
IP rating		IP24
Temperature setting	°C	20-60
Colour		white
Height	mm	293
Width	mm	188
Depth	mm	99
Weight	kg	2.20
Energy efficiency class		A

DCE 11/13 H + MEKD

Benefits
- Compact instantaneous water heater and special MEKD wall mounted tap in one packing unit
- Optimum complete package for supplying one kitchen sink or one utility sink

Description • DHW set with electronic compact instantaneous water heater DCE 11/13 H for oversink installation, with mono lever wall mounted tap for kitchen or utility sinks.

DCE 11/13 H + MEKD

		DCE 11/13 H + MEKD
Part number		**205967**

Set components		DCE 11/13 H + MEKD
1	Type	DCE 11/13
	Qty	1
		Compact instantaneous water heater with electronic closed-loop control
	Page	30

DHF C

DHF 13 C

Benefits
- Hot water at any time and compact dimensions
- Long service life thanks to reliable tubular heater system
- Hydraulically controlled – preferred temperature by adding cold water at the tap
- Straightforward installation thanks to metal water connections
- Two output stages adjustable using rotary selector depending on application (hand washbasin or shower)
- Very safe thanks to high limit safety cut-out

Application • This hydraulically controlled instantaneous water heater supplies DHW to multiple draw-off points. • The appliance can be combined with commercially available taps.

Convenience features • The tubular heater in a pressure-tested copper cylinder is suitable for use with soft water. • The hydraulic control system regulates the electrical output automatically in 2 output stages subject to the flow rate. • The output level can be manually locked to full heating output using the output selector. • Flow rate control compensates for pressure fluctuations, resulting in largely constant temperatures. To ensure a sufficient DHW temperature increase in winter, the flow rate is automatically limited. • The preferred temperature is set at the tap.

Installation: • The mains connection is made in the lower area of the appliance. • The threaded water fittings for flush/surface mounting with cold water shut-off are intended for surface-mounted taps. • The instantaneous water heater is not suitable for plastic DHW pipework. • If the appliance is used with a cold water line made of plastic, a metal pipe (approx. 1 m long) must be installed at the appliance connection point.

Safety • The safety system is equipped with a high limit safety cut-out.

		DHF 13 C	DHF 15 C	DHF 18 C	DHF 21 C
Part number		**074301**	**074302**	**074303**	**074304**
Specification					
Rated voltage	V	400	400	400	400
Rated output	kW	13,2	15	18	20,5
Rated current	A	20	22	26	29,6
Fuse protection	A	20	25	32	32
Frequency	Hz	50	50	50	50
Phases		3/PE	3/PE	3/PE	3/PE
Power supply		3/PE	3/PE	3/PE	3/PE
Water connection		G 1/2 A	G 1/2 A	G 1/2 A	G 1/2 A
Switch-on water flow rate	l/min	>2.5 - >3.7	>3.0 - >4.5	>3.9 - >5.9	>4.4 - >6.4
IP rating		IP24	IP24	IP24	IP24
Colour		white	white	white	white
Height	mm	370	370	370	370
Width	mm	220	220	220	220
Depth	mm	130	130	130	130
Weight	kg	4.10	4.10	4.10	4.10
Energy efficiency class		B	B	B	B

Depth = 141 mm including operating dial

Application areas

Rated output: Please note the rated output and fuse protection when selecting an instantaneous water heater

Starting flow rate: Please note the starting flow rate of the instantaneous water heater when selecting your fitting

	kW	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	l/min	1,0	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2,0	2,1	2,2	2,3	2,4	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5,0
DCE-X 6/8 Premium																																									
DCE-X 10/12 Premium																																									

	kW	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	l/min	1,0	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2,0	2,1	2,2	2,3	2,4	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5,0
DCE-S 6/8 Plus																																									
DCE-S 10/12 Plus																																									

	kW	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	l/min	1,0	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2,0	2,1	2,2	2,3	2,4	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5,0
DCE-C 6/8 Trend																																									
DCE-C 10/12 Trend																																									

Compact instantaneous water heaters, 1-phase

Full electronic control
DCE-X Premium 38
Electronic closed-loop control
DCE-S Plus 40
Electronic open-loop control
DCE-C Trend 42

DCE-X Premium

DCE-X 6/8 Premium

Benefits

- Maximum energy efficiency and accurate temperature delivery at all times thanks to fully electronic output control using 4i technology, in compact design
- Easy operation via large, illuminated multifunction display
- Energy saving operation with ECO function
- Fully transparent costs thanks to water and power consumption indicator
- High quality design | Made in Germany
- Quick temperature selection with two memory buttons
- Safe operation thanks to extensive range of convenience and safety functions
- Quick installation with PROFI-RAPID
- Selectable output – can be adjusted internally
- Suitable for preheated water up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- Instant hot water thanks to rapid and maintenance-free bare wire heating system

Application • This space saving compact instantaneous water heater ensures the supply of DHW even to multiple draw-off points – for example a shower, kitchen sink and washbasin. In commercial settings, cleaning rooms or multiple washbasins in sanitary facilities can be supplied. The unvented, pressure-tested appliance can be connected to all commercially available taps.

Convenience features • The fully electronically controlled compact instantaneous water heater ensures accurate temperature delivery at all times thanks to the electronic flow rate control. • The temperatures are variably and digitally adjusted in very precise 0.5 °C increments. • The large multifunction display with white backlighting not only shows the set temperature but also provides information on the current power consumption, energy consumption, flow rate and time. Status and service information is also displayed. • The instantaneous water heater provides a memory function for 2 programmable preferred temperatures as well as a wide range of comfort functions, including various wellness programs and automated bath filling. • The individually adjustable temperature limiting function can be used for anti-scalding protection and childproofing. • An LED indicator provides information about heating operation. • The keypad lock protects the appliance against unintentional adjustment.

Efficiency • The appliance ensures energy and water savings of up to 30 % through fully electronic output control with 4i technology. Three sensors and an additional motorised valve ensure that the set temperature is achieved to the exact degree at all times. Only the amount of energy actually required is expended; there is no need to add cold water at the tap. As there are no thermal losses in the cylinder or pipework either, the instantaneous water heater is impressively efficient. Also contributing to this efficiency is the individually selectable ECO mode. • The current water and power consumption can be displayed. • The appliance is suitable for operation with preheated water from solar thermal and heat pump systems.

Installation • Quick and easy installation with the PROFI-RAPID installation system. • Straightforward, stable wall mounting: direct fitting through the appliance back panel enables easy compensation for any wall unevenness and drill hole discrepancies. • Fast universal water connection using 1/2“ connections. The brass water connections at the bottom enable straightforward surface mounting. Optional accessories are available for flush mounting with non-visible water connections. • Fitting to plastic pipework is also possible (follow the manufacturer‘s instructions). • Easy and flexible electrical connection at the top or bottom when flush mounting and at the bottom or sides when surface mounting. • The appliance cover can be easily opened using a central screw. • The entire inner assembly can be detached from the back panel. • Fast fault analysis with LED diagnostic traffic light.

Safety • The temperature can be permanently limited by an installer to suit individual needs. • The bare wire heating system is suitable for hard and soft water. • Multi stage electronic safety concept with air detection.

		DCE-X 6/8 Premium	DCE-X 10/12 Premium
Part number		**238158**	**238159**
Specification			
Rated voltage	V	220	220
Rated voltage 1	V	220	220
Rated voltage 2	V	230	230
Rated voltage 3	V	240	240
Rated output	kW	6.0/8.0	10.0/12.0
Rated output 1	kW	6.0/8.0	10.0/12.0

next page >

		DCE-X 6/8 Premium	DCE-X 10/12 Premium
Rated output 2	kW	6.6/8.7	11.0/13.1
Rated output 3	kW	7.2/9.6	12.0/14.3
Rated current	A	27.3/36.4	45.5/54.5
Rated current 1	A	27.3/36.4	45.5/54.5
Rated current 2	A	28.5/38.0	47.8/57.0
Rated current 3	A	30.0/40.0	50.0/59.5
Fuse protection	A	30/40	50/60
Fuse protection 1	A	30/40	50/60
Fuse protection 2	A	30/40	50/60
Fuse protection 3	A	30/40	50/60
Frequency	Hz	50/60	50/60
Frequency 1	Hz	50/60	50/60
Frequency 2	Hz	50/60	50/60
Frequency 3	Hz	50/60	50/60
Phases		1/N/PE	1/N/PE
Conductivity σ15 ≤	µS/cm	910	910
Resistivity ρ15 ≥	Ω cm	1100	1100
Switch-on water flow rate	l/min	1.3	1.3
IP rating		IP25	IP25
Temperature setting	°C	Off, 20 - 60	Off, 20 - 60
Colour		white	white
Height	mm	372	372
Width	mm	217	217
Depth	mm	109	109
Weight	kg	2.50	2.50
Energy efficiency class		A	A

DCE-S Plus

DCE-S 6/8 Plus

Benefits

- Maximum energy efficiency and accurate temperature delivery with 3i technology and electronic closed-loop control
- High quality design | Made in Germany
- Quick installation with PROFI-RAPID
- Selectable output – can be adjusted internally
- Suitable for preheated water up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- Variable temperature selection via rotary selector
- High safety level as anti-scalding protection can be permanently activated
- Instant hot water thanks to rapid and maintenance-free bare wire heating system

Application • This compact instantaneous water heater supplies several draw-off points with DHW, for example for the shower and kitchen sink. In commercial settings, water can be supplied to cleaning rooms or multiple washbasins in sanitary facilities. The unvented, pressure-tested appliance can be connected to all commercially available taps.

Convenience features • The instantaneous water heater with electronic closed-loop control ensures accurate temperature delivery up to the maximum output. It can be variably adjusted via a manual rotary selector on the appliance.

Efficiency • The 3i technology ensures energy and water savings of up to 30 % through electronic output control. • Energy savings are further assured as only the amount of energy actually required is used. • Furthermore, thermal losses in the cylinder and pipework are prevented as the water is heated directly at the draw-off point. • Cold water does not need to be added to achieve the preferred temperature, thereby improving the overall efficiency of the appliance. • The compact instantaneous water heater is suitable for operation with preheated water from solar thermal systems or heat pumps.

Installation • Quick and easy installation is ensured with the improved PROFI-RAPID installation system. Direct fitting through the appliance back panel enables easy compensation of any unevenness in the wall and drill hole discrepancies. • Fast, universal water connection from above is facilitated through the 1/2“ connections. The brass water connections at the bottom enable straightforward surface mounting. Optional accessories are available for flush mounting with non-visible water connections. • Fitting to plastic pipework is also possible if the manufacturer‘s instructions are followed. • Simple and flexible mains connection, which is made from below or above in the case of flush-mounted installation. With surface-mounted installation, connection is possible from below or from the side. • The appliance cover can be easily opened using a central screw. • The entire inner assembly can be detached from the back panel. • Rapid fault analysis is assured with the integral LED diagnostic traffic light.

Safety • The temperature can be limited by an installer to suit individual needs. • The bare wire heating system is suitable for hard and soft water. • Multi stage electronic safety concept with high limit safety cut-out and air detection.

		DCE-S 6/8 Plus	DCE-S 10/12 Plus
Part number		**238153**	**238154**
Specification			
Rated voltage	V	220	220
Rated voltage 1	V	220	220
Rated voltage 2	V	230	230
Rated voltage 3	V	240	240
Rated output	kW	6.0/8.0	10.0/12.0
Rated output 1	kW	6.0/8.0	10.0/12.0
Rated output 2	kW	6.6/8.7	11.0/13.1
Rated output 3	kW	7.2/9.6	12.0/14.3
Rated current	A	27.3/36.4	45.5/54.5
Rated current 1	A	27.3/36.4	45.5/54.5
Rated current 2	A	28.5/38.0	47.8/57.0
Rated current 3	A	30.0/40.0	50.0/59.5
Fuse protection	A	30/40	50/60
Fuse protection 1	A	30/40	50/60
Fuse protection 2	A	30/40	50/60
Fuse protection 3	A	30/40	50/60
Frequency	Hz	50/60	50/60
Frequency 1	Hz	50/60	50/60

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		DCE-S 6/8 Plus	DCE-S 10/12 Plus
Frequency 2	Hz	50/60	50/60
Frequency 3	Hz	50/60	50/60
Phases		1/N/PE	1/N/PE
Conductivity σ15 ≤	µS/cm	910	910
Resistivity ρ15 ≥	Ω cm	1100	1100
Switch-on water flow rate	l/min	1.3	1.3
IP rating		IP25	IP25
Temperature setting	°C	20-60	20-60
Colour		white	white
Height	mm	372	372
Width	mm	217	217
Depth	mm	109	109
Weight	kg	2.50	2.50
Energy efficiency class		A	A

DCE-C Trend

DCE-C 6/8 Trend

Benefits

- Good energy efficiency and constant preferred temperature delivery with 2i technology and electronic open-loop control
- Quick installation with PROFI-RAPID
- Selectable output – can be adjusted internally
- High quality design | Made in Germany
- Suitable for preheated water up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- Permanently set DHW temperature – preferred temperature with cold water added at the tap
- Instant hot water thanks to rapid and maintenance-free bare wire heating system

Application • This compact instantaneous water heater with electronic open-loop control ensures the supply of DHW to multiple draw-off points – for example shower and kitchen sink or washstand and washbasin. In commercial settings, water can be supplied to cleaning rooms or multiple washbasins in sanitary facilities. The unvented, pressure-tested appliance can be connected to all commercially available taps.

Convenience features • The appliance supplies DHW at a constant fixed temperature up to the maximum output. • For the preferred temperature, cold water is mixed in at the tap.

Efficiency • Electronic output control with 2i technology, including two sensors which ensure that the preset temperature level is reached up to the output limit. For this, only the amount of energy actually required is expended. Furthermore, the water is heated directly at the draw-off point, which prevents thermal losses in the cylinder and pipework, thereby improving energy efficiency. • The instantaneous water heater is suitable for preheated water from solar thermal and heat pump systems.

Installation • Fast wall mounting with the improved PROFI-RAPID installation system. Direct fitting through the appliance back panel enables easy compensation of drill hole discrepancies. • The appliance cover is opened with a central screw. • For fast, universal water connection, 1/2“ brass water connections are integrated, located at the bottom for surface mounting. Flush mounting for non-visible water connections is possible with optional accessories. • Fitting to plastic pipework is also possible if the manufacturer‘s instructions are followed. • Easy and flexible mains connection at the top or bottom when flush mounting and at the bottom or sides when surface mounting. • The selectable output can be set internally. • An LED diagnostic traffic light is integrated for fast fault analysis. • The internal assembly can be completely removed with no back panel.

Safety • The bare wire heating system is suitable for hard and soft water. • Multi stage electronic safety concept with air detection.

		DCE-C 6/8 Trend	DCE-C 10/12 Trend
Part number		**238148**	**238149**
Specification			
Rated voltage	V	220	220
Rated voltage 1	V	220	220
Rated voltage 2	V	230	230
Rated output	kW	6.0/8.0	10.0/12.0
Rated output 1	kW	6.0/8.0	10.0/12.0
Rated output 2	kW	6.6/8.7	11.0/13.1
Rated current	A	27.3/36.4	45.5/54.5
Rated current 1	A	27.3/36.4	45.5/54.5
Rated current 2	A	28.5/38.0	47.8/57.0
Rated current 3	A		50.0/59.5
Fuse protection	A	30/40	50/60
Fuse protection 1	A	30/40	50/60
Fuse protection 2	A	30/40	50/60
Frequency	Hz	50/60	50/60
Frequency 1	Hz	50/60	50/60
Frequency 2	Hz	50/60	50/60
Frequency 3	Hz		50/60
Phases		1/N/PE	1/N/PE

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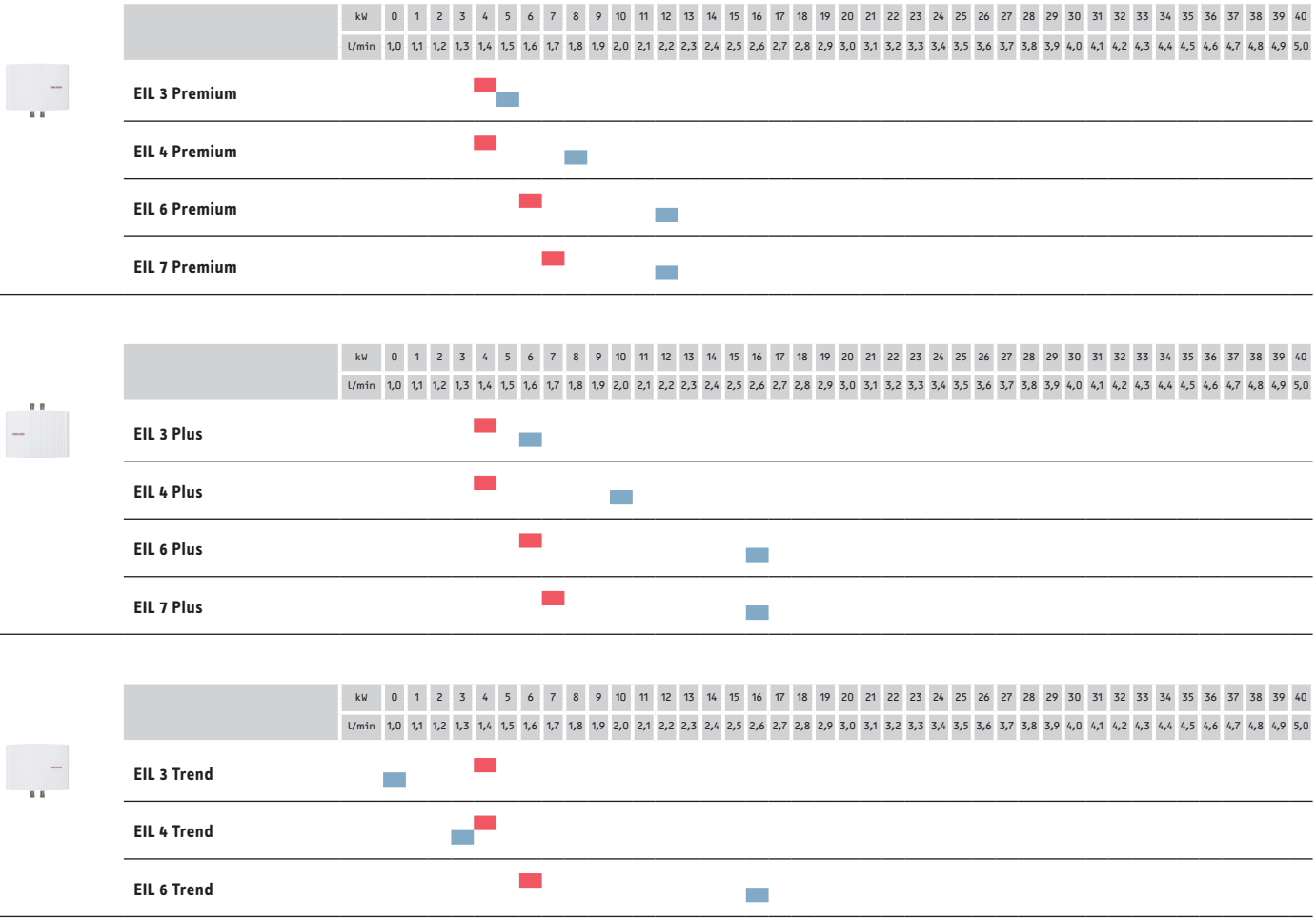
		DCE-C 6/8 Trend	DCE-C 10/12 Trend
Conductivity σ15 ≤	µS/cm	910	910
Resistivity ρ15 ≥	Ω cm	1100	1100
Switch-on water flow rate	l/min	1.3	1,3
IP rating		IP25	IP25
Temperature setting	°C	55	55
Colour		white	white
Height	mm	372	372
Width	mm	217	217
Depth	mm	97	97
Weight	kg	2.50	2.50
Energy efficiency class		A	A

Application areas

Rated output: Please note the rated output and fuse protection when selecting an instantaneous water heater

Starting flow rate: Please note the starting flow rate of the instantaneous water heater when selecting your fitting



Electronic closed-loop control
EIL Premium 46
Hydraulic control, pressurised
EIL Plus 48
Hydraulic control, non-pressurised
EIL Trend 50

EIL Premium

EIL 3 Premium

Benefits
- Suitable for oversink and undersink installation with a single appliance
- Can be operated with pressurised and non-pressurised taps
- Accurate temperature delivery up to the maximum output
- Internal permanent set temperature for childproofing and anti-scalding protection
- Special aerator for perfect flow pattern
- At inlet temperatures > 20 °C, also suitable for showers
- Mini instantaneous water heater with electronic closed-loop control for a hand washbasin
- Maintenance-free bare wire heating system
- 3.5 kW version comes with standard plug (Product: 200134)

Application • This mini instantaneous water heater with electronic closed-loop control supplies DHW reliably and efficiently to one washbasin. • With higher inlet temperatures, the appliance is also suitable for showers. • The appliance can be used with either a pressure-tested or a non-pressurised tap.

Convenience features • The mini instantaneous water heater has control electronics and an outlet temperature sensor. The flow rate can be limited internally. • Preferred temperatures are accurately delivered up to the maximum output and the temperature can be variably limited internally thanks to the temperature scale. • The special aerator ensures a perfect water flow pattern and is fitted with an integral flow rate controller. • In the case of high inlet temperatures, anti-scalding protection automatically activates and adjusts the output.

Efficiency • Thermal losses in the cylinder and pipework are prevented, as instantaneous water heaters heat the water directly at the draw-off point, which saves water and energy. • Electronic output control for energy and water saving operation additionally improves efficiency. • In conjunction with the outlet temperature sensor, the control electronics ensure that the set temperature is achieved to the exact degree. For this, only the amount of energy actually required is expended; there is no need to add cold water at the tap. • The appliance is suitable for preheated water from solar thermal systems or heat pumps.

Installation • The appliance is secured at 2 points, and the back panel serves as a drilling template, if required. • Fast, universal water connection with external metal water fittings. • Simple mains connection as the power cable is prepared for permanent connection as standard. • An LED diagnostic traffic light is integrated for fast fault analysis.

Safety • The maintenance-free bare wire heating system is suitable for hard and soft water. • The safety system monitors the temperature electronically. The appliance switches off automatically in the event of overpressure.

		EIL 3 Premium	EIL 4 Premium	EIL 6 Premium	EIL 7 Premium
Part number		**200134**	**200135**	**200136**	**200137**
Specification					
Rated voltage	V	230	230	230	400
Rated voltage 1	V	200	200	200	380
Rated voltage 2	V	220	220	220	400
Rated voltage 3	V	230	230	230	
Rated voltage 4	V	240	240	240	
Rated output	kW	3,53	4,4	5,7	6,5
Rated output 1	kW	2,7	3,3	4,3	5,9
Rated output 2	kW	3,2	4,0	5,2	6,5
Rated output 3	kW	3,53	4,4	5,7	
Rated output 4	kW	3,8	4,8	6,2	
Rated current	A	15,2	19,1	24,7	16,3
Rated current 1	A	13,3	16,7	21,6	15,5
Rated current 2	A	14,5	18,2	23,6	16,3
Rated current 3	A	15,2	19,1	24,7	
Rated current 4	A	15,8	20,0	25,8	
Fuse protection	A	16	20	25	20
Fuse protection 1	A	16	20	25	16
Fuse protection 2	A	16	20	25	20
Fuse protection 3	A	16	20	25	
Fuse protection 4	A	16	20	32	
Frequency	Hz	50/60	50/60	50/60	50/-
Frequency 1	Hz	50/60	50/60	50/60	50/-
Frequency 2	Hz	50/60	50/60	50/60	50/-
Frequency 3	Hz	50/60	50/60	50/60	

next page >

		EIL 3 Premium	EIL 4 Premium	EIL 6 Premium	EIL 7 Premium
Frequency 4	Hz	50/60	50/60	50/60	
Phases		1/N/PE	1/N/PE	1/N/PE	2/PE
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C)	µS/cm	1000	1000	1000	1000
Conductivity σ15 ≤ (at ϑcold > 25 °C)	µS/cm	770	770	770	770
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C)	Ω cm	1000	1000	1000	1000
Resistivity ρ15 ≥ (at ϑcold > 25 °C)	Ω cm	1300	1300	1300	1300
Switch-on water flow rate	l/min	>1,5	>1.8	>2,2	>2.2
IP rating		IP25	IP25	IP25	IP25
Temperature setting	°C	30 – 50	30 – 50	30 – 50	30 – 50
Colour		white	white	white	white
Height	mm	143	143	143	143
Width	mm	190	190	190	190
Depth	mm	82	82	82	82
Weight	kg	1.50	1.50	1.50	1.50
Energy efficiency class		A	A	A	A

EIL Plus

EIL 3 Plus

Benefits

- Mini instantaneous water heater with hydraulic control for a hand washbasin
- Can be operated with pressurised and non-pressurised taps
- For undersink installation
- Special aerator for perfect flow pattern
- Maintenance-free bare wire heating system
- 3.5 kW version comes with standard plug (Product: 200138)

Application • This hydraulically controlled mini instantaneous water heater supplies DHW reliably and efficiently to one washbasin. • The unvented, pressure-tested appliance is suitable for all commercially available pressure taps.

Convenience features • The appliance has a flow switch and automatically controls the flow rate. • Preferred temperatures are delivered with near constant accuracy up to the maximum output by mixing at the tap. • The system hydraulically controls the heating output in a single stage, subject to the flow rate. • A special aerator ensures a perfect water flow pattern. • The integral flow controller can be easily fitted in existing taps.

Efficiency • The instantaneous water heater heats the water directly at the draw-off point, saving water and energy by preventing thermal losses in the cylinder or pipework.

Installation • The appliance is secured at 2 points, and the back panel serves as a drilling template, if required. • Fast, universal water connection with external metal water fittings. • Simple mains connection as the power cable is prepared for permanent connection as standard.

Safety • The bare wire heating system is suitable for hard and soft water. • The appliance switches off automatically in the event of overpressure.

		EIL 3 Plus	EIL 4 Plus	EIL 6 Plus	EIL 7 Plus
Part number		**200138**	**200139**	**200140**	**200141**
Specification					
Rated voltage	V	230	230	230	400
Rated voltage 1	V	200	200	200	380
Rated voltage 2	V	220	220	220	400
Rated voltage 3	V	230	230	230	415
Rated voltage 4	V	240	240	240	
Rated output	kW	3,53	4,4	5,7	6,5
Rated output 1	kW	2,7	3,3	4,3	5,9
Rated output 2	kW	3,2	4,0	5,2	6,5
Rated output 3	kW	3,53	4,4	5,7	7,0
Rated output 4	kW	3,8	4,8	6,2	
Rated current	A	15,2	19,1	24,7	16,3
Rated current 1	A	13,3	16,7	21,6	15,5
Rated current 2	A	14,5	18,2	23,6	16,3
Rated current 3	A	15,2	19,1	24,7	16,9
Rated current 4	A	15,8	20	25,8	
Fuse protection	A	16	20	25	20
Fuse protection 1	A	16	20	25	16
Fuse protection 2	A	16	20	25	20
Fuse protection 3	A	16	20	25	20
Fuse protection 4	A	16	20	32	
Frequency	Hz	50/60	50/60	50/60	50
Frequency 1	Hz	50/60	50/60	50/60	50/60
Frequency 2	Hz	50/60	50/60	50/60	50/60
Frequency 3	Hz	50/60	50/60	50/60	50/-
Frequency 4	Hz	50/60	50/60	50/60	
Phases		1/N/PE	1/N/PE	1/N/PE	2/PE
Conductivity σ15 ≤	µS/cm	909	909	909	909
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C)	µS/cm	909	909	909	909
Conductivity σ15 ≤ (at ϑcold > 25 °C)	µS/cm	909	909	909	909
Resistivity ρ15 ≥	Ω cm	1100	1100	1100	1100

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		EIL 3 Plus	EIL 4 Plus	EIL 6 Plus	EIL 7 Plus
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C)	Ω cm	1100	1100	1100	1100
Resistivity ρ15 ≥ (at ϑcold > 25 °C)	Ω cm	1100	1100	1100	1100
Water connection		G 3/8 A	G 3/8 A	G 3/8 A	G 3/8 A
Switch-on water flow rate	l/min	> 1,6	> 2,0	> 2,6	>2,6
IP rating		IP25	IP25	IP25	IP25
Colour		white	white	white	white
Height	mm	143	143	143	143
Width	mm	190	190	190	190
Depth	mm	82	82	82	82
Weight	kg	1.40	1.40	1.40	1.40
Energy efficiency class		A	A	A	A

EIL Trend

EIL 3 Trend

Benefits

- Mini instantaneous water heater with hydraulic control for a hand washbasin
- Operation with non-pressurised tap
- Suitable for oversink and undersink installation with a single appliance
- Special aerator for perfect flow pattern
- Maintenance-free bare wire heating system
- 3.5 kW version comes with standard plug (Product: 200142)

Application • This hydraulically controlled mini instantaneous water heater supplies DHW to one washbasin. • The appliance is for oversink or undersink installation and is suitable for all commercially available non-pressurised taps.

Convenience features • The mini instantaneous water heater is equipped with a flow switch and the appliance hydraulically controls the heating output in a single stage, subject to the flow rate. • Preferred temperatures are delivered with near constant accuracy up to the maximum output by mixing in cold water at the tap. • The appliance hydraulically controls the heating output in a single stage, subject to the flow rate. • The standard delivery includes a special aerator that ensures an optimum water flow pattern and that is equipped with an integral flow rate controller.

Efficiency • The mini instantaneous water heater heats the water directly at the draw-off point, which saves water and energy by preventing thermal losses in the cylinder and pipework.

Installation • The appliance is secured at 2 points, and the back panel serves as a drilling template, if required. Fast, universal water connection with external metal water fittings. • Simple mains connection as the power cable is prepared for permanent connection as standard.

Safety • The bare wire heating system is suitable for hard and soft water. • The appliance switches off automatically in the event of overpressure.

		EIL 3 Trend	EIL 4 Trend	EIL 6 Trend
Part number		**200142**	**200143**	**200144**
Specification				
Rated voltage	V	230	230	230
Rated voltage 1	V	200	200	200
Rated voltage 2	V	220	220	220
Rated voltage 3	V	230	230	230
Rated voltage 4	V	240	240	240
Rated output	kW	3,53	4,4	5,7
Rated output 1	kW	2,7	3,3	4,3
Rated output 2	kW	3,2	4,0	5,2
Rated output 3	kW	3,53	4,4	5,7
Rated output 4	kW	3,8	4,8	6,2
Rated current	A	15,2	19,1	24,7
Rated current 1	A	13,3	16,7	21,6
Rated current 2	A	14,5	18,2	23,6
Rated current 3	A	15,2	19,1	24,7
Rated current 4	A	15,8	20	25.8
Fuse protection	A	16	20	25
Fuse protection 1	A	16	20	25
Fuse protection 2	A	16	20	25
Fuse protection 3	A	16	20	25
Fuse protection 4	A	16	20	32
Frequency	Hz	50/60	50/60	50/60
Frequency 1	Hz	50/60	50/60	50/60
Frequency 2	Hz	50/60	50/60	50/60
Frequency 3	Hz	50/60	50/60	50/60
Frequency 4	Hz	50/60	50/60	50/60
Phases		1/N/PE	1/N/PE	1/N/PE
Conductivity σ15 ≤	µS/cm	909	909	909
Conductivity σ15 ≤ (at ϑcold ≤ 25 °C)	µS/cm	909	909	909
Conductivity σ15 ≤ (at ϑcold > 25 °C)	µS/cm	909	909	909
Resistivity ρ15 ≥	Ω cm	1100	1100	1100

next page >

		EIL 3 Trend	EIL 4 Trend	EIL 6 Trend
Resistivity ρ15 ≥ (at ϑcold ≤ 25 °C)	Ω cm	1100	1100	1100
Resistivity ρ15 ≥ (at ϑcold > 25 °C)	Ω cm	1100	1100	1100
Water connection		G 3/8 A	G 3/8 A	G 3/8 A
Switch-on water flow rate	l/min	> 1,0	> 1.3	> 2.6
IP rating		IP25	IP25	IP25
Colour		white	white	white
Height	mm	143	143	143
Width	mm	190	190	190
Depth	mm	82	82	82
Weight	kg	1.40	1.40	1.40
Energy efficiency class			A	A

Accessories for comfort and compact instantaneous water heaters

LR 1-A

LR 1-A

Benefits

- Load shedding relay for priority control
- Installed dimension = one horizontal pitch as defined by DIN 43880

Description • This load shedding relay for priority control is used, for example, in conjunction with electric storage heaters or to mutually interlock two instantaneous water heaters. • The installed dimension corresponds to one horizontal pitch according to DIN 43880.

		LR 1-A
Part number		**001786**
Specification		
Installation type		DIN rail
Breaking capacity	A	1

Accessories for comfort instantaneous water heaters

ZTA 3/4

ZTA 3/4

Benefits

- Protects downstream appliances against high inlet temperatures
- Enables the use of hydraulic instantaneous water heaters in shower applications

Description • The thermostatic valve for central premixing is used with electronic instantaneous water heaters for anti-scalding protection with preheated water. • With hydraulic instantaneous water heaters, the valve is suitable for shower applications.

		ZTA 3/4
Part number		**073864**
Specification		
Max. permissible pressure	MPa	1.00
Water connection		G 3/4 A

Accessories for comfort instantaneous water heaters

Small water heaters, non-pressurised		57
Small water heaters, pressurised		63
Accessories for small water heaters, pressurised		73
Wall mounted cylinder		79
Accessories for wall mounted cylinders		97
Floor mounted cylinder		101
Accessories for floor mounted cylinders, pressurised		111

Application areas

Nominal capacity

	L	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ESH 5 U-N Trend							■															
ESH 10 U-N Trend												■										

	L	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ESH 5 O-N Trend							■															
ESH 10 O-N Trend												■										

Undersink
ESH U-N Trend 58
ESH U-N Trend +A 59
Oversink
ESH O-N Trend 60
ESH O-N Trend +A 61

ESH U-N Trend

ESH 5 U-N Trend

Benefits
- Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- Variable temperature selection
- High limit safety cut-out resettable by disconnecting the mains plug
- Power cable with standard plug
- Operation with non-pressurised tap

Application • These non-pressurised, vented small water heaters provide an energy saving and efficient supply of warm or hot water to individual draw-off points, for example a washbasin or the kitchen sink. • The appliances for undersink installation can be connected to all commercially available non-pressurised taps.

Convenience features • The preferred temperature can be variably adjusted. • The heat-up phase is visually indicated. • Large quantities of DHW can be drawn off thanks to the special geometry of the heating element.

Installation • The PROFI-RAPID installation system enables very fast installation. The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies, and is suitable for commonly used fixing points. • The connecting cable comes fitted with a standard plug. Any excess cable can be housed in the practical cable storage compartment in the appliance back panel.

Safety • The robust copper tubular heater ensures a long service life. • Safe commissioning thanks to resettable high limit safety cut-out.

		ESH 5 U-N Trend	ESH 10 U-N Trend
Part number		**201386**	**201391**
Specification			
Rated output 1	kW	2	2
Power supply		1/N/PE	1/N/PE
Rated voltage 1	V	230	230
Rated current 1	A	8,7	8.7
Frequency	Hz	50-60	50-60
Energy efficiency class		A	A
Standby energy consumption/24 h at 65 °C	kWh	0.25	0.32
Nominal capacity	l	5	10
Mixed water amount at 40 °C	l	9,3	19
Temperature setting range	°C	35 – 85	35 – 85
Version		Small water heater	Small water heater
Type		non-pressurised	non-pressurised
Installation type		Undersink	Undersink
With tap		-	-
Colour		white	white
Operation		manual	manual
Temperature limit		•	•
IP rating		IP24 D	IP24 D
Height	mm	415	506
Width	mm	252	296
Depth	mm	233	276
Weight	kg	3.10	5.00

Installation template (Product: 201386)

ESH U-N Trend +A

Description • DHW sets consisting of ESH 5 U-N Trend or ESH 10 U-N Trend and a non-pressurised, vented mono lever mixer tap.

ESH 5 U-N Trend +A

		ESH 5 U-N Trend +A	ESH 10 U-N Trend +A
Part number		**201387**	**201392**

Set components		**ESH 5 U-N Trend +A**	**ESH 10 U-N Trend +A**
1	Type	ESH 5 U-N Trend	ESH 10 U-N Trend
	Qty	1	1
		Small water heater, non-pressurised, undersink	Small water heater, non-pressurised, undersink
	Page	58	58

ESH 5 U-N Trend
Mono lever mixer tap
ESH 10 U-N Trend
Mono lever mixer tap (Product: 201392)

ESH O-N Trend

ESH 5 O-N Trend

Benefits
- Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- Variable temperature selection
- High limit safety cut-out resettable by disconnecting the mains plug
- Power cable with standard plug
- Operation with non-pressurised tap

Application • These non-pressurised, vented small water heaters are suitable for DHW supply to individual draw-off points, e.g. to a sink in the utility room or kitchen. • The non-pressurised appliances for oversink installation are combined with a non-pressurised tap.

Convenience features • The temperature is variably adjusted via a rotary selector. • The special geometry of the heating element means that large amounts of DHW can be drawn off. • The heat-up phase is visually indicated.

Installation • The PROFI-RAPID installation system ensures quick and straightforward installation. The commonly used fixing points facilitate replacement. Simple wall mounting with the universal mounting rail; an installation template is included in the standard delivery. • Power cable with standard plug.

Safety • The robust copper tubular heater ensures a long service life. • The resettable high limit safety cut-out ensures safe commissioning.

		ESH 5 O-N Trend	ESH 10 O-N Trend
Part number		**201388**	**201393**
Specification			
Rated output 1	kW	2	
Power supply		1/N/PE	1/N/PE
Rated voltage 1	V	230	230
Rated current 1	A	8,7	8.7
Frequency	Hz	50-60	50-60
Energy efficiency class		A	A
Standby energy consumption/24 h at 65 °C	kWh	0.25	0.31
Nominal capacity	l	5	10
Mixed water amount at 40 °C	l	9,3	19
Temperature setting range	°C	35 - 85	35 - 85
Version		Small water heater	Small water heater
Type		non-pressurised	non-pressurised
Installation type		Oversink	Oversink
With tap		-	-
Colour		white	white
Operation		manual	manual
Temperature limit		•	•
IP rating		IP24 D	IP24 D
Height	mm	415	506
Width	mm	252	296
Depth	mm	233	276
Weight	kg	3.10	5.00

Installation template (Product: 201388)

ESH O-N Trend +A

ESH 5 O-N Trend+A

Description • DHW sets consisting of ESH 5 O-N Trend or ESH 10 O-N Trend with non-pressurised, vented mono lever mixer tap.

		ESH 5 O-N Trend+A	ESH 10 O-N Trend +A
Part number		**201389**	**201395**

Set components		**ESH 5 O-N Trend+A**	**ESH 10 O-N Trend +A**
1	Type	ESH 5 O-N Trend	ESH 10 O-N Trend
	Qty	1	1
		Small water heater, non-pressurised, oversink	Small water heater, non-pressurised, oversink
	Page	60	60

Design and technical features as ESH 5 O-N Trend or ESH 10 O-N Trend with non-pressurised mono lever mixer tap in one complete package.
ESH 5 O-N Trend
Mono lever mixer tap
ESH 10 O-N Trend
Mono lever mixer tap (Product: 201395)

Application areas

Nominal capacity

	L	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHU 5 SLi							■															

	L	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHC 10												■	■									
SHC 15																	■	■				

	L	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ESH 10 U-P Plus												■	■									

	L	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ESH 10 O-P Plus												■	■									

Undersink
- **SHU SLi** 64
- **SHC Stiebel** 66
- **ESH U-P Plus** 68

Oversink
- **ESH O-P Plus** 70

SHU SLi

SHU 5 SLi

Benefits
- Plug-in appliance for electrical connection to any standard safety socket
- Quick DHW heating without delay
- Matching safety assemblies as accessories
- Low energy losses thanks to high grade thermal insulation

Application • These small water heaters supply DHW to multiple draw-off points, e.g. the washbasin in the bathroom and the kitchen sink. • The pressure-tested, unvented appliances can be connected to all commercially available unvented taps.

Convenience features • The energy saving thermostop function prevents unwanted heating of the mixer tap. • The temperature can be variably adjusted between 35 °C and 85 °C via a rotary selector on the appliance. It can also be limited mechanically in four stages. • The heat-up phase is signalled by an indicator lamp.

Efficiency • The water is heated directly at the draw-off point, which prevents thermal losses in the cylinder or pipework. • For low energy losses, the polypropylene inner cylinder is equipped with high quality EPS thermal insulation. • The sensor is immersed directly in the water for fast and accurate temperature capture.

Installation • Straightforward replacement for all standard small water heaters. • The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies, and is also suitable for commonly used fixing points. • The metal threaded water fittings enable secure replacement. • The standard delivery includes a prepared power cable for standard plugs or a permanent connection. Any excess power cable is housed in the cable storage compartment in the appliance back panel.

Safety • The appliance is splashproof. • For a long service life, the small water heater has a robust copper tubular heater with a low surface load. • The resettable high limit safety cut-out ensures safe commissioning of 1 kW and 2 kW appliances. • The mechanical temperature limit can be set in two stages for anti-scalding protection.

		SHU 5 SLi
Part number		**222151**
Specification		
Rated output 1	kW	1.8
Rated output 2	kW	2.0
Rated output 3	kW	2.2
Power supply		1/N/PE
Rated voltage 1	V	220
Rated voltage 2	V	230
Rated voltage 3	V	240
Rated current 1	A	8.3
Rated current 2	A	8.7
Rated current 3	A	9.1
Fuse protection 2	A	10
Frequency	Hz	50-60
Energy efficiency class		A
Standby energy consumption/24 h at 65 °C	kWh	0.29
Nominal capacity	l	5
Mixed water amount at 40 °C	l	10
Temperature setting range	°C	35 - 82
Version		Small water heater
Type		pressurised
Installation type		Undersink
With tap		-
Colour		white
Cable length	m	0.6
Operation		manual
Temperature limit		•
IP rating		IP24 D
Height	mm	421
Width	mm	263
Depth	mm	230
Weight	kg	5.20

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		SHU 5 SLi
Required accessories		
Part number		**070558**
Type		WVT-G3/8
Description		Tee
Part number		**073499**
Type		SVMT
Description		Safety assembly for small water heater, pressure-tested, undersink

Installation template (Product: 222151)

Undersink

SHC Stiebel

SHC 10

Benefits

- Supplies multiple draw-off points via a pressurised connection
- Enamelled pressure-tested steel inner cylinder
- High energy efficiency thanks to very low standby energy losses
- Frost protection setting
- Quick and easy installation

Application • These small water heaters supply multiple draw-off points that have a low DHW demand. • The pressure-tested, unvented appliances can be combined with commercially available pressure taps • They are suitable for undersink installation; they can only be installed with the appropriate safety valve.

Convenience features • The small water heaters offer tailored solutions for decentralised group supply. They heat the water directly at the draw-off point, which prevents energy, water and circulation losses caused by long pipe runs. • The temperature is variably adjusted by means of a rotary selector. • The temperature controller uses a sensor installed directly in the water. • Low energy losses are ensured by the high grade EPS thermal insulation. • The appliance has a 2-stage temperature limit and an automatic frost protection setting. • A visual display indicates when the appliance is heating up.

Installation • Quick and easy wall mounting, a universal mounting rail is included in the standard delivery as well as the installation template. • Secure water connection thanks to metal threaded water fittings. Suitable safety valves are available as accessories.

Safety • Robust copper tubular heater with low surface load. • The pressure-tested steel inner cylinder is equipped with a protective magnesium anode. • Resettable high limit safety cut-out reset button. • The temperature can be limited mechanically in two stages to provide anti-scalding protection and childproofing. • The appliance is splash-proof to protection rating IP 24.

		SHC 10	SHC 15
Part number		**233747**	**234337**
Specification			
Rated output 1	kW	1.4	1.4
Rated output 2	kW	1,5	1.5
Rated output 3	kW	1.6	1.6
Power supply		1/N/PE	1/N/PE
Rated voltage 1	V	220	220
Rated voltage 2	V	230	230
Rated voltage 3	V	240	240
Rated current 1	A	6,2	6.2
Rated current 2	A	6.5	6.5
Rated current 3	A	6.8	6.8
Fuse protection 2	A	10	10
Frequency	Hz	50-60	50-60
Energy efficiency class		A	A
Standby energy consumption/24 h at 65 °C	kWh	0.48	0.49
Nominal capacity	l	10	15
Mixed water amount at 40 °C	l	15,3	23
Mixed water amount at 40 °C (15 °C/60 °C)	l	15,3	23
Temperature setting range	°C	30 - 65	30 - 65
Version		Small water heater	Small water heater
Type		pressurised	pressurised
Installation type		Undersink	Undersink
With tap		-	-
Inner cylinder material		Steel, enamelled	Steel, enamelled
Colour		white	white
Cable length	m	1	1
Operation		manual	manual
Temperature limit		•	•

next page >

Undersink

		SHC 10	SHC 15
IP rating		IP24 D	IP24 D
Height	mm	430	452
Width	mm	280	320
Depth	mm	270	318
Weight	kg	7.20	9.00

Required accessories			
Part number		**073499**	**073499**
Type		SVMT	SVMT
Description		Safety assembly for small water heater, pressure-tested, undersink	Safety assembly for small water heater, pressure-tested, undersink

ESH U-P Plus

ESH 10 U-P Plus

Benefits
- Supplies multiple draw-off points via a pressurised connection
- Variable temperature selection
- Press the reset button to reset the high limit safety cut-out
- Power cable with standard plug
- Suitable for all standard pressure fittings
- Safety valve 6.7 bar with non-return valve included in the standard delivery

Application • These pressure-tested, unvented small water heaters supply DHW to one or more draw-off points with a low demand. The appliances for undersink installation can be combined with all commercially available pressure taps. • The appropriate safety assembly is necessary for installation.

Convenience features • The small water heaters offer a demand-dependent solution for decentralised group supply of warm or hot water at all times. They heat the water directly at the draw-off point. This prevents energy and water losses caused by long pipe runs, as well as circulation losses. High grade thermal insulation additionally reduces energy consumption. • The temperature controller works by means of a temperature sensor immersed directly in the water. • The required temperature is variably adjusted by means of a rotary selector. • An indicator lamp shows when the small water heater is heating up. • The pressure-tested inner cylinder is made from enamelled steel.

Installation • The PROFI-RAPID installation system enables very quick wall mounting. Replacing older appliances is easy, as the design is suitable for commonly used fixing points and a universal mounting rail is included in the standard delivery. • Includes safety valve. Power cable with standard plug.

Safety • The robust copper tubular heater ensures a long service life. • The high limit safety cut-out can be reset after triggering.

		ESH 10 U-P Plus
Part number		**201397**
Specification		
Rated output 1	kW	1.8
Rated output 2	kW	2.0
Rated output 3	kW	2.2
Power supply		1/N/PE
Rated voltage 1	V	220
Rated voltage 2	V	230
Rated voltage 3	V	240
Rated current 1	A	8.3
Rated current 2	A	8.7
Rated current 3	A	9.1
Fuse protection 2	A	10
Frequency	Hz	50-60
Energy efficiency class		A
Standby energy consumption/24 h at 65 °C	kWh	0.36
Nominal capacity	l	10
Mixed water amount at 40 °C	l	18
Temperature setting range	°C	35 - 82
Version		Small water heater
Type		pressurised
Installation type		Undersink
With tap		-
Inner cylinder material		Steel, enamelled
Colour		white
Cable length	m	0.95
Operation		manual
Temperature limit		•
IP rating		IP24 D

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		ESH 10 U-P Plus
Height	mm	506
Width	mm	296
Depth	mm	276
Weight	kg	8.00

Required accessories		
Part number		**070558**
Type		WVT-G3/8
Description		Tee
Part number		**073499**
Type		SVMT
Description		Safety assembly for small water heater, pressure-tested, undersink

Oversink

ESH O-P Plus

ESH 10 O-P Plus

Benefits

- Supplies multiple draw-off points via a pressurised connection
- Variable temperature selection
- Power cable with standard plug
- Press the reset button to reset the high limit safety cut-out
- Safety valve 6.7 bar with non-return valve included in the standard delivery

Application • These small water heaters provide an energy saving and efficient supply of warm or hot water to one or more draw-off points with low DHW demand. • The pressure-tested, unvented appliances can be connected to all commercially available pressure taps.

Convenience features • The small water heater for oversink installation is suitable for demand-dependent, decentralised group supply of multiple draw-off points. • The sensor immersed in the water measures the temperature precisely and quickly. • The temperature can be variably adjusted using the rotary selector. • The heat-up phase is signalled by an indicator lamp.

Efficiency • The appliance heats the water directly at the draw-off point, which saves water and energy by preventing thermal losses in the pipework. • For low energy losses, the pressure-tested, enamelled inner cylinder made of steel is equipped with high grade thermal insulation.

Installation • The PROFI-RAPID installation system enables very fast installation. The universal mounting rail compensates for any unevenness in the wall and drill hole discrepancies, and is suitable for commonly used fixing points. • The connecting cable comes fitted with a standard plug. • Installation only with the appropriate safety assembly. The matching safety valve is available as an accessory.

Safety • For a long service life, the small water heater is equipped with a robust copper tubular heater. • Safe commissioning thanks to resettable high limit safety cut-out.

		ESH 10 O-P Plus
Part number		**201398**
Specification		
Rated output 1	kW	1.8
Rated output 2	kW	2.0
Rated output 3	kW	2.2
Power supply		1/N/PE
Rated voltage 1	V	220
Rated voltage 2	V	230
Rated voltage 3	V	240
Rated current 1	A	8.3
Rated current 2	A	8.7
Rated current 3	A	9.1
Fuse protection 2	A	10
Frequency	Hz	50-60
Energy efficiency class		A
Standby energy consumption/24 h at 65 °C	kWh	0.34
Nominal capacity	l	10
Mixed water amount at 40 °C	l	18
Temperature setting range	°C	35 - 82
Version		Small water heater
Type		pressurised
Installation type		Oversink
With tap		-
Inner cylinder material		Steel, enamelled
Colour		white
Cable length	m	0.95
Operation		manual
Temperature limit		•
Temperature selection	°C	35

next page >

Oversink

		ESH 10 O-P Plus
IP rating		IP24 D
Height	mm	506
Width	mm	296
Depth	mm	276
Weight	kg	8.00

Oversink

3

Accessories
Accessories 74

SVMT

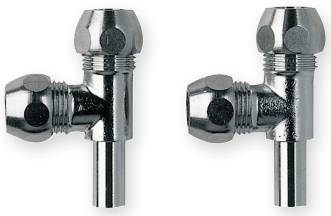
Benefits
› For the connection of pressure taps

Description • The safety assembly in a brass casing with chrome finish is suitable for pressure-tested, unvented, undersink small water heaters. • Standard delivery includes the pressure limiter, a water control valve and the drain outlet with non-return valve.

SVMT

		SVMT
Part number		**073499**
Specification		
Max. permissible pressure	MPa	1.00
Safety valve response pressure	MPa	0.70
Pressure reducing valve		•
Drip water connection		•
Installation type		Surface-mounted

WVT



Description • The water manifold is combined with the SVMT safety assembly to be able to connect a second commercially available pressure tap.

WVT-G3/8

		WVT-G3/8
Part number		**070558**
Specification		
Water connection		G 3/8 A

SRT

Benefits
› The safety assembly is used as fuse protection for unvented DHW cylinders

Description • This safety assembly for surface mounting of unvented wall mounted cylinders and pressurised small water heaters can be installed horizontally or vertically.

SRT 2

		SRT 2
Part number		**230764**
Specification		
Max. permissible pressure	MPa	0.60
Pressure reducing valve		-
Drip water connection		•
Installation type		Surface-mounted
Safety valve	bar	6

ST GP

Benefits
› The safety valve is used as fuse protection for unvented DHW cylinders

Description • Safety valve for wall and floor mounted cylinders.

ST GP 1/2”

		ST GP 1/2“	ST GP 3/4“
Part number		**073945**	**073946**
Specification			
Max. permissible pressure	MPa	0.60	0.60
Water connection		G 1/2	G 3/4

Application areas

Nominal capacity

	L	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
SHZ 30 LCD					■																						
SHZ 50 LCD							■																				
SHZ 80 LCD										■																	
SHZ 100 LCD												■															
SHZ 120 LCD														■													
SHZ 150 LCD																	■										

	L	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
SH 30 S electronic					■																						
SH 50 S electronic							■																				
SH 80 S electronic										■																	
SH 100 S electronic												■															
SH 120 S electronic														■													
SH 150 S electronic																	■										

	L	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
PSH 30 Universal EL					■																						
PSH 50 Universal EL							■																				
PSH 80 Universal EL										■																	
PSH 100 Universal EL												■															
PSH 120 Universal EL														■													
PSH 150 Universal EL																	■										

Application areas

	l	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
PSH 30 Trend					■	■																					
PSH 50 Trend							■	■																			
PSH 80 Trend										■	■																
PSH 100 Trend												■	■														
PSH 120 Trend														■	■												
PSH 150 Trend																	■	■									
PSH 200 Trend																					■	■					

	l	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
PSH-H 30 Trend					■	■																					
PSH-H 50 Trend							■	■																			
PSH-H 80 Trend										■	■																
PSH-H 100 Trend												■	■														
PSH-H 120 Trend														■	■												
PSH-H 150 Trend																	■	■									
PSH-H 200 Trend																					■	■					

	l	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
PSH 50 Classic							■	■																			
PSH 80 Classic										■	■																
PSH 100 Classic												■	■														
PSH 120 Classic														■	■												
PSH 150 Classic																	■	■									
PSH 200 Classic																					■	■					

Wall mounted cylinder
Application areas

	l	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
SHD 30 S					■																						
SHD 100 S												■															

	l	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
PSH 80 WE-L										■																	
PSH 80 WE-R										■																	
PSH 120 WE-L														■													
PSH 120 WE-R														■													
PSH 150 WE-L																	■										
PSH 150 WE-R																	■										
PSH 200 WE-L																					■						
PSH 200 WE-R																					■						

	l	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
PSH 80 WE-H										■																	
PSH 120 WE-H														■													
PSH 150 WE-H																	■										
PSH 200 WE-H																					■						

Pressurised
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Instantaneous water cylinder operation
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With tubular indirect coil
- **PSH WE** 93
- **PSH WE-H** 95

SHZ LCD

SHZ 30 LCD

Benefits

- Precise temperature adjustment via LCD screen and buttons
- Power saving operation thanks to the three selectable ECO functions
- The maintenance-free self-regulating impressed current anode ensures corrosion protection
- Currently available mixed water amount is displayed on the LCD screen
- At times of increased DHW demand, a boost function is available
- Automatic scale build-up indicator
- Repair work simplified by integral fault display
- Suitable for single or dual circuit operation (connected to off-peak economy tariff) and for manual rapid heat-up operation
- Very low energy losses thanks to high grade thermal insulation
- The steel inner cylinder features a special directly applied enamel coating for a long service life
- Quick and easy installation using mounting bracket and drilling template

Application • These wall mounted cylinders are suitable for DHW supply to multiple draw-off points (individual and group supply) e.g. in the bathroom and kitchen simultaneously. • Pressure-tested appliance for use with all commercially available pressure taps. Non-pressurised option for supplying one draw-off point. • Suitable for dual circuit operation; single-circuit or manual rapid heat-up operation also possible.

Convenience features • Electronic closed-loop control guarantees precise temperature setting via operating buttons. • The illuminated LCD screen shows the set temperature, available mixed water amount, energy consumption, status and service messages. • ECO functions for energy savings. • Rapid heat-up button for increased convenience during periods of higher DHW demand. This can also be activated via an external remote button. • Adjustable temperature limit.

Efficiency • ECO modes can be individually selected for economical operation. An energy consumption display indicates the cumulative energy consumption. The intelligent ECO Dynamic function additionally saves energy while ensuring a high level of hot water convenience. • Low energy losses due to high grade thermal insulation. • Optional reverse control (activated via DIP switch) is possible in off-peak economy tariff operation (dual circuit) to further reduce costs and take full advantage of the enable times offered by the power supply utility. • Design for recycling, for environmentally responsible sorting of the various components.

Installation • Selectable connected load with removable strain relief for simplified installation. • Straightforward replacement of all standard wall mounted cylinders. Installation template for marking the holes to be drilled and for pre-installation of the water connections. The universal wall mounting bracket enables quick and straightforward wall mounting. Also suitable for installation in corners. • Recessed grips provide a secure hold when carrying the wall mounted cylinder. • Standard delivery includes caps for the mounting bracket and spacers for protruding walls. • Suitable for installation in systems with plastic, copper or stainless steel pipework. • The output and operating mode can be selected and adjusted via two triple setting DIP switches. • The automatic display indicates the level of scale build-up on the flanged immersion heater. The flanged immersion heater with unmistakable electrical flange mount connector is easy to remove. • Hoseproof. • Drainage facility via drain valve with hose connection. Large flanged aperture for effective and convenient descaling.

Safety • Universal copper flanged immersion heater suitable for single circuit, dual circuit or manual rapid heat-up operation. • Maintenance-free corrosion protection via the automatically regulated titanium impressed current anode. • Steel inner cylinder with special „anticor“ enamel coating for a long service life. • Anti-scalding protection and childproofing thanks to adjustable temperature limit and screen locking option. • Automatic frost protection monitors the water temperature and protects the cylinder under cold conditions.

		SHZ 30 LCD	SHZ 50 LCD	SHZ 80 LCD	SHZ 100 LCD	SHZ 120 LCD	SHZ 150 LCD
Part number		**231251**	**231252**	**231253**	**231254**	**231255**	**231256**
Specification							
Connected load ~ 230 V	kW	1-4	1-4	1-4	1-4	1-4	1-4
Connected load ~ 400 V	kW	1-6	1-6	1-6	1-6	1-6	1-6
Power supply		1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE
Rated voltage	V	230/400	230/400	230/400	230/400	230/400	230/400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Load profile		S	M	M	L	XL	XL

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		SHZ 30 LCD	SHZ 50 LCD	SHZ 80 LCD	SHZ 100 LCD	SHZ 120 LCD	SHZ 150 LCD
Energy efficiency class		A	B	B	C	C	C
Standby energy consumption/24 h at 65 °C	kWh	0.46	0.54	0.67	0.86	0.99	1.16
Nominal capacity	l	30	50	80	100	120	150
Mixed water amount at 40 °C	l	74	121	197	220	291	355
Temperature setting range	°C	20-85	20-85	20-85	20-85	20-85	20-85
Max. flow rate	l/min	18	18	18	18	18	18
Colour		white	white	white	white	white	white
IP rating		IP25	IP25	IP25	IP25	IP25	IP25
Height	mm	770	740	1050	1050	1210	1445
Width	mm	410	510	510	510	510	510
Depth	mm	420	510	510	510	510	510
Weight	kg	22.90	27.60	37.80	39.50	42.40	52.00
Required accessories							
Part number		**230764**	**230764**	**230764**	**230764**	**230764**	**230764**
Type		SRT 2	SRT 2	SRT 2	SRT 2	SRT 2	SRT 2
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested

SH S electronic

SH 30 S electronic

Benefits
- Variable temperature setting via rotary selector
- High quality magnesium anode for optimised cylinder protection
- Electronic heat content indicator via LED indicator in the user interface
- Hot water round the clock in efficient single circuit operation
- Very low energy losses thanks to high grade thermal insulation
- The steel inner cylinder features a special directly applied enamel coating for a long service life
- Quick and easy installation using mounting bracket and drilling template

Application • These wall mounted cylinders supply DHW conveniently and energy efficiently to multiple draw-off points, e.g. individual or group supply to the bathroom and kitchen. • The pressure-tested, unvented appliances can be combined with all commercially available pressure taps. • If only one draw-off point is used, the appliance can also be used with a non-pressurised (vented) connection.

Convenience features • The temperature can be variably adjusted and limited in three stages. • The heat-up phase is visually indicated. • Seven LED fields on the user interface indicate the usable heat content.

Efficiency • Low energy losses thanks to high grade thermal insulation.

Installation • The integral recessed grips facilitate handling of the wall mounted cylinder. • Quick and straightforward replacement of all standard wall mounted cylinders thanks to the well planned design. • The installation template supplied can be used to mark drill holes and pre-install the water connections. • The universal wall mounting bracket allows both corner and wall installation. Standard delivery includes mounting bracket caps and spacers for protruding walls. • Selectable terminals with removable strain relief for simplified installation. • The appliance is suitable for installation in systems with plastic, copper or stainless steel pipework. • The large flanged aperture allows effective and convenient descaling of the wall mounted cylinder. The electric flanged immersion heater is easy to remove and is fitted with a reverse polarity-protected electrical flange mount connector. • The appliance is drained via a drain valve with hose connection. • The design allows environmentally responsible sorting and recycling of the individual components.

Safety • The universal flanged immersion heater is suitable for single circuit operation. • The steel inner cylinder with special „anticor“ directly applied enamel coating on the inside helps to ensure a long service life. • The high grade magnesium anode offers additional corrosion protection. Its consumption is indicated via the user interface. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing. The appliance is hoseproof to protection rating IP 25.

		SH 30 S electronic	SH 50 S electronic	SH 80 S electronic	SH 100 S electronic	SH 120 S electronic	SH 150 S electronic
Part number		**073047**	**073048**	**073049**	**073050**	**073051**	**073052**
Specification							
Connected load ~ 230 V	kW	1-4	1-4	1-4	1-4	1-4	1-4
Connected load ~ 400 V	kW	3-6	3-6	3-6	3-6	3-6	3-6
Power supply		1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE
Rated voltage	V	230/400	230/400	230/400	230/400	230/400	230/400
Frequency	Hz	50/-	50/-	50/-	50/-	50/-	50/-
Load profile		S	M	M	L	L	XL
Energy efficiency class		B	C	C	C	C	C
Standby energy consumption/24 h at 65 °C	kWh	0.46	0.54	0.67	0.86	0.99	1.10
Nominal capacity	l	30	50	80	100	120	150
Mixed water amount at 40 °C	l	50	80	122	133	182	229
Temperature setting range	°C	35-82	35-82	35-82	35-82	35-82	35-82
Max. flow rate	l/min	18	18	18	18	18	18
Colour		white	white	white	white	white	white
IP rating		IP25	IP25	IP25	IP25	IP25	IP25
Height	mm	770	740	1050	1050	1210	1445
Width	mm	410	510	510	510	510	510
Depth	mm	420	510	510	510	510	510
Weight	kg	23.10	28.00	38.00	40.80	45.50	53.30

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		SH 30 S electronic	SH 50 S electronic	SH 80 S electronic	SH 100 S electronic	SH 120 S electronic	SH 150 S electronic
Required accessories							
Part number		**230764**	**230764**	**230764**	**230764**	**230764**	**230764**
Type		SRT 2	SRT 2	SRT 2	SRT 2	SRT 2	SRT 2
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested

PSH Universal EL

PSH 30 Universal EL

Benefits

- Electronic display and buttons for temperature adjustment accurate to the degree
- Power saving operation thanks to the three selectable ECO functions
- High quality magnesium anode for optimised cylinder protection
- At times of increased DHW demand, a boost function is available
- Choice of vertical or horizontal installation
- Repair work simplified by integral fault display
- Protected ceramic heating element can be replaced without the appliance first having to be drained
- Suitable for single or dual circuit operation (connected to off-peak economy tariff) and for manual rapid heat-up operation
- The steel inner cylinder features a special directly applied enamel coating for a long service life
- Very low energy losses thanks to high grade thermal insulation
- Safety valve 6.7 bar with non-return valve included in the standard delivery

Application • These unvented, pressure-tested wall mounted cylinders supply DHW simultaneously to multiple draw-off points, e.g. the bathroom and kitchen. • The appliance can be combined with all commercially available pressure taps. • The appliance can be used in dual circuit operation with an off-peak economy tariff connection; otherwise single circuit or manual rapid heat-up operation is also possible.

Convenience features • Electronic closed-loop control guarantees precise temperature setting via the operating buttons. • The LCD screen indicates the set temperature, status and service, as required. • A maximum temperature limit can be set. • The rapid heat-up button (boost function) provides additional convenience for increased DHW demand.

Efficiency • The intelligent ECO Dynamic function adapts automatically to individual demand, which saves additional energy. • The high grade thermal insulation protects against heat loss. • Reverse control during off-peak economy tariff operation (dual circuit) saves on costs. This is activated via a DIP switch and takes full advantage of the off-peak periods offered by the power supply utility. It also ensures a consistently high level of hot water convenience. • The individual components are designed for environmentally responsible sorting and recycling.

Installation • Quick and straightforward wall mounting is ensured with the integral wall mounting bracket. • The connected load is selectable. • Straightforward replacement of all standard wall mounted cylinders. • The output and operating mode can be adjusted via 2 triple setting DIP switches. • The ceramic heating element has no contact with the DHW because it is in an enamelled protective pipe. This enables a „dry“ replacement of the heating element. • The cylinder is drained via a shut-off valve with hose connection. • The large flanged aperture allows effective and convenient descaling.

Safety • High corrosion protection is provided by the magnesium anode and the steel inner cylinder with special „anticor“ directly applied enamel coating on the inside. • The anti-scalding protection also acts as childproofing. • The screen locking function prevents the set maximum temperature from being changed. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing. • The appliance is hoseproof.

		PSH 30 Universal EL	PSH 50 Universal EL	PSH 80 Universal EL	PSH 100 Universal EL	PSH 120 Universal EL	PSH 150 Universal EL
Part number		**231150**	**231151**	**231152**	**231153**	**231649**	**231154**
Specification							
Connected load ~ 230 V	kW	2.6	3	3	3	3	3
Power supply		1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Rated voltage	V	230	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Load profile		S	M	M	L	XL	XL
Energy efficiency class		B	B	B	C	C	C
Nominal capacity	l	30	50	80	100	120	150
Temperature setting range	°C	7-85	7-85	7-85	7-85	7-85	7-85
Max. flow rate	l/min	23.5	23.5	23.5	23.5	23.5	23.5
Colour		white	white	white	white	white	white
IP rating		IP25	IP25	IP25	IP25	IP25	IP25
Height	mm	696	951	893	1045	1200	1435
Width	mm	380	380	475	475	475	475
Depth	mm	392	392	492	492	492	492
Weight	kg	22.00	28.00	34.00	38.00	43.00	52.00

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Safety valve with non-return valve

PSH Trend

PSH 30 Trend

Benefits
- Variable temperature setting via rotary selector
- High quality magnesium anode for optimised cylinder protection
- Visual monitoring of water temperature via temperature display
- Optimised cylinder protection with special CoPro enamel coating
- Durable, low-scaling stainless steel heating element
- Low energy losses thanks to high grade thermal insulation
- Easy handling due to distinctive recessed grips on the appliance
- Easy replacement of old appliances thanks to universal wall mounting
- Safety valve 6.7 bar with non-return valve included in the standard delivery

Application • These wall mounted cylinders can supply DHW simultaneously to multiple draw-off points, e.g. the bathroom and kitchen. The unvented, pressure-tested appliances offer convenient and energy saving single circuit operation. • The wall mounted cylinders can be used with commercially available pressure taps.

Convenience features • The temperature can be variably adjusted. • The heat-up phase is indicated by an LED.

Efficiency • The high grade thermal insulation protects against heat loss. • The individual components are designed for environmentally responsible sorting and recycling.

Installation • Quick and straightforward wall mounting with the integral wall mounting bracket. Existing wall mounted cylinders can be easily replaced. Suitable for installation in systems with plastic, copper or stainless steel pipework. • The large flanged aperture allows effective and convenient descaling. • The stainless steel flanged immersion heater can be easily replaced.

Safety • The magnesium sacrificial anode provides additional corrosion protection. • The steel inner cylinder with special „anticor“ directly applied enamel coating on the inside helps to ensure a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing. • The hoseproof appliance carries the VDE/GS and EMI symbols.

		PSH 30 Trend	PSH 50 Trend	PSH 80 Trend	PSH 100 Trend
Part number		**232080**	**232081**	**232082**	**232083**
Specification					
Connected load ~ 230 V	kW	2	2	2	2
Power supply		1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz
Rated voltage	V	220-240	220-240	220-240	220-240
Frequency	Hz	50/60	50/60	50/60	50/60
Load profile		S	M	M	L
Energy efficiency class		C	C	C	C
Standby energy consumption/24 h at 65 °C	kWh	0.53	0.73	0.79	0.98
Nominal capacity	l	30	50	80	100
Mixed water amount at 40 °C	l	52	99	142	186
Temperature setting range	°C	30-75	30-75	30-75	30-75
Max. flow rate	l/min	23.5	23.5	23.5	23.5
Colour		white	white	white	white
IP rating		IP25	IP25	IP25	IP25
Height	mm	642	897	871	1025
Width	mm	405	405	510	510
Depth	mm	410	410	520	520
Weight	kg	16.40	21.40	28.20	33.60

		PSH 120 Trend	PSH 150 Trend	PSH 200 Trend
Part number		**232084**	**232085**	**232086**
Specification				
Connected load ~ 230 V	kW	2	2	2
Power supply		1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz
Rated voltage	V	220-240	220-240	220-240

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		PSH 120 Trend	PSH 150 Trend	PSH 200 Trend
Frequency	Hz	50/60	50/60	50/60
Load profile		L	L	XL
Energy efficiency class		C	C	C
Standby energy consumption/24 h at 65 °C	kWh	1.15	1.33	1.61
Nominal capacity	l	120	150	192
Mixed water amount at 40 °C	l	224	288	351
Temperature setting range	°C	30-75	30-75	30-75
Max. flow rate	l/min	23.5	23.5	23.5
Colour		white	white	white
IP rating		IP25	IP25	IP25
Height	mm	1178	1410	1715
Width	mm	510	510	510
Depth	mm	520	520	520
Weight	kg	39.10	46.20	56.30

(Product: 232080, 232082, 232083, 232084, 232085, 232086)
(Product: 232081)

PSH-H Trend

PSH-H 30 Trend

Benefits

- Space saving horizontal installation
- High degree of corrosion protection as the steel inner cylinder has a special CoPro enamel coating and a protective anode
- Durable, scale-resistant stainless steel immersion heater
- For low energy losses, the DHW cylinder is fitted with high grade thermal insulation made in rigid polyurethane foam
- Easy handling due to distinctive recessed grips on the appliance
- Universal wall mounting bracket for quick and simple installation
- Can be installed with plastic pipework (observe manufacturer's instructions)
- Safety valve 6.7 bar with non-return valve included in the standard delivery

Application • These electric DHW cylinders are installed horizontally to save space and supply one or more draw-off points with hot water. • Various versions of these unvented, pressure-tested appliances provide a cylinder volume of between 30 and 200 litres.

Convenience features • The temperature can be variably adjusted via a rotary selector on the appliance. If the required temperature is undershot, the appliance automatically reheats. • High degree of corrosion protection as the robust steel inner cylinder has a special, high grade, CoPro enamel coating and an integral protective anode. The low-scaling stainless steel heating element also contributes to the long service life.

Efficiency • The low energy losses are ensured by the high grade thermal insulation made of strong, rigid polystyrene foam.

Installation • Mounting is very simple thanks to the universal wall mounting bracket. For easy handling during installation, the appliances are equipped with practical recessed grips. • Installation in conjunction with plastic pipework is also possible if the manufacturer's instructions and application limits are followed. • A suitable safety assembly is required for the operation of pressure equipment. • The stainless steel flanged immersion heater is easy to replace.

Safety • The appliances are hoseproof. • Automatic frost protection prevents the DHW cylinder freezing at low temperatures.

		PSH-H 30 Trend	PSH-H 50 Trend	PSH-H 80 Trend	PSH-H 100 Trend
Part number		**204770**	**204771**	**204772**	**204773**
Specification					
Connected load ~ 230 V	kW	2	2	2	2
Rated voltage	V	220-240	220-240	220-240	220-240
Load profile		S	M	M	M
Energy efficiency class		C	C	C	C
Standby energy consumption/24 h at 65 °C	kWh	0.78	1.09	1.04	1.20
Nominal capacity	l	30	50	80	100
Mixed water amount at 40 °C	l	46,1	70,5	108	137,3
Temperature setting range	°C	30-80	30-80	30-80	30-80
Max. flow rate	l/min	23,5	23,5	23,5	23,5
Colour		white	white	white	white
IP rating		IP25	IP25	IP25	IP25
Height	mm	412	412	517	517
Width	mm	642	897	871	1025
Depth	mm	419	419	545	545
Weight	kg	18.40	23.40	31.10	35.10

		PSH-H 120 Trend	PSH-H 150 Trend	PSH-H 200 Trend
Part number		**204774**	**204775**	**204776**
Specification				
Connected load ~ 230 V	kW	2	2	2
Rated voltage	V	220-240	220-240	220-240
Load profile		L	L	L
Energy efficiency class		C	C	C
Standby energy consumption/24 h at 65 °C	kWh	1.41	1.61	1.97
Nominal capacity	l	120	150	192

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		PSH-H 120 Trend	PSH-H 150 Trend	PSH-H 200 Trend
Mixed water amount at 40 °C	l	128,3	159,4	194
Temperature setting range	°C	30-80	30-80	30-80
Max. flow rate	l/min	23,5	23,5	23,5
Colour		white	white	white
IP rating		IP25	IP25	IP25
Height	mm	517	517	517
Width	mm	1178	1410	1715
Depth	mm	545	545	545
Weight	kg	41.10	48.40	58.80

Safety valve
Safety valve

(Product: 204774)

PSH Classic

PSH 50 Classic

Benefits
- Variable temperature setting via rotary selector
- High quality magnesium anode for optimised cylinder protection
- Visual monitoring of water temperatures via temperature curve display
- Hot water round the clock in efficient single circuit operation
- Low energy losses thanks to high grade thermal insulation
- Optimised cylinder protection with special CoPro enamel coating
- Quick and easy installation using the universal wall mounting bracket
- Safety valve 6.7 bar with non-return valve included in the standard delivery

Application • These wall mounted cylinders in a cylindrical casing supply DHW to multiple draw-off points, e.g. individual or group supply to the bathroom and kitchen. • The pressure-tested, unvented appliances are used in single circuit operation and combined with commercially available pressure taps.

Convenience features • The preferred temperature can be variably adjusted and heat-up operation is visually indicated. • The current water temperature can be conveniently read from the front of the appliance.

Efficiency • The high grade thermal insulation made of insulation foam ensures low energy losses. • Thanks to the design for recycling, environmentally responsible sorting of the various components is possible.

Installation • Straightforward replacement of all standard wall mounted cylinders. Quick and straightforward wall mounting thanks to the universal mounting bracket. • The appliance can be connected to systems with plastic, copper or stainless steel pipework. • The copper flanged immersion heater can be easily removed.

Safety • The high grade magnesium anode and the steel inner cylinder with special &anticor directly applied enamel coating protect the cylinder against corrosion. • The automatic frost protection monitors the water temperature and protects the cylinder against frost. • The wall mounted cylinder is splashproof.

		PSH 50 Classic	PSH 80 Classic	PSH 100 Classic	PSH 120 Classic	PSH 150 Classic	PSH 200 Classic
Part number		**235960**	**235961**	**235962**	**235963**	**235964**	**235965**
Specification							
Connected load ~ 230 V	kW	1.8	1.8	1.8	1.8	1.8	1.8
Power supply		1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Rated voltage	V	220-240	220-240	220-240	220-240	220-240	220-240
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Load profile		M	M	L	L	L	XL
Energy efficiency class		C	C	C	C	C	C
Standby energy consumption/24 h at 65 °C	kWh	0.96	1.22	1.47	1.73	2.05	2.45
Nominal capacity	l	53	80	100	120	150	192
Mixed water amount at 40 °C	l	82	125	168	219	270	347
Temperature setting range	°C	30-70	30-70	30-70	30-70	30-70	30-70
Max. flow rate	l/min	23.5	23.5	23.5	23.5	23.5	23.5
Colour		white	white	white	white	white	white
IP rating		IP24	IP24	IP24	IP24	IP24	IP24
Height	mm	609	810	964	1117	1349	1704
Width	mm	475	475	475	475	475	475
Depth	mm	483	483	483	483	483	483
Weight	kg	19.00	28.00	33.00	39.00	46.00	56.00

Safety valve (Product: 235960, 235961, 235962, 235963, 235964, 235965)

Instantaneous water cylinder operation

SHD

SHD 30 S

Benefits

- Instantaneous water cylinder operation: standard heating and automatically increased output for large draw-off volumes
- Variable temperature setting via rotary selector
- Simple maintenance with LED signal anode in the user interface
- At times of increased DHW demand, a boost function is available
- Can be used individually in single circuit operation, dual circuit operation (off-peak tariff connection) and instantaneous water cylinder operation
- Thermal insulation with very low energy losses
- The steel inner cylinder features a special directly applied enamel coating for a long service life
- Quick and easy installation using mounting bracket and drilling template

Application • These wall mounted cylinders supply DHW conveniently and energy efficiently to multiple draw-off points, e.g. individual or group supply to the bathroom and kitchen. • The pressure-tested appliances can be combined with all commercially available pressure taps. • The powerful instantaneous water cylinders can be used either in single circuit operation, or in dual circuit operation if there is an existing off-peak economy tariff connection.

Convenience features • In order to automatically heat the water directly in instantaneous water cylinder operation, an increased heating output is made available when the water draw-off rate is high. • Variable temperature setting. • A visual display indicates when the appliance is heating up. • A button for rapid heat-up (boost function) is provided for high demand in dual circuit operation.

Efficiency • For the lowest possible energy losses, the wall mounted cylinder is equipped with high grade thermal insulation. Particularly economical operation is achieved by using favourable electricity tariffs. An off-peak economy tariff connection is possible. • Design for recycling allows environmentally responsible sorting of the various components.

Installation • Recessed grips provide a secure hold when carrying the appliance. • Selectable connected load for simplified installation. • Straightforward replacement of all standard wall mounted cylinders. Rapid and straightforward wall mounting is facilitated with the universal wall mounting bracket. Installation template supplied for marking the holes to be drilled and for pre-installation of the water connections. • Also suitable for installation in corners. • Suitable for installation in systems with plastic, copper or stainless steel pipework. • The flanged immersion heater can be easily removed. • The cylinder contents are drained via a drain valve with hose connection. • The large flanged aperture allows effective and convenient descaling.

Safety • The special flanged immersion heater is suitable for instantaneous water cylinders for single or dual circuit operation. • The high grade signal anode can be replaced without removing the flange, and its consumption is displayed on the user interface. • The special „anticor“ directly applied enamel coating in the steel inner cylinder ensures a long service life. • Automatic frost protection monitors the water temperature and protects the cylinder at low temperatures. • The appliance is hoseproof.

		SHD 30 S	SHD 100 S
Part number		**073059**	**073060**
Specification			
Connected load ~ 400 V	kW	3,4/20,4	3,4/20,4
Power supply		3/PE	3/PE
Rated voltage	V	400	400
Frequency	Hz	50	50
Load profile		S	L
Energy efficiency class		B	C
Standby energy consumption/24 h at 65 °C	kWh	0.46	0.86
Nominal capacity	l	30	100
Mixed water amount at 40 °C	l	50	133
Temperature setting range	°C	35-85	35-85
Max. flow rate	l/min	18	18
Colour		white	white
IP rating		IP25	IP25
Height	mm	770	1050
Width	mm	410	510
Depth	mm	420	510
Weight	kg	24.30	40.10

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		SHD 30 S	SHD 100 S
Required accessories			
Part number		**230764**	**230764**
Type		SRT 2	SRT 2
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested

PSH WE

PSH 80 WE-L

Benefits

- Variable temperature setting ensures a high level of convenience
- Visual monitoring of water temperatures via temperature curve display
- A DHW circulation connection increases hot water convenience in longer pipe networks
- Durable, low-scaling stainless steel heating element
- High energy efficiency thanks to very low standby energy losses
- Personalised hot water convenience thanks to connection for heat exchanger and electric heating element
- Easy to transport and install with ergonomic recessed grips on the appliance
- Quick and easy installation using the universal wall mounting bracket
- Safety valve 6.7 bar with non-return valve included in the standard delivery
- Versions for connection to the tubular heat exchanger either on left or right available for easy integration

Application • These vertical wall mounted combi cylinders supply DHW to multiple draw-off points, e.g. individual and group supply to the bathroom and kitchen. The wall mounted combi cylinders are equipped with a stainless steel electric tubular heater. A tubular indirect coil is also integrated, for example for connecting the wall mounted cylinder to a central heating system. • The pressure-tested, unvented appliance is suitable for all commercially available pressure taps.

Convenience features • The temperature is variably adjusted and heat-up operation is visually indicated. • The current water temperature can be checked on the temperature curve display.

Efficiency • The high grade thermal insulation ensures low energy losses. • Particularly economical operation is possible if the integral cylinder is connected to the heating system via the built-in tubular indirect coil. • Design for recycling allows environmentally responsible sorting of the various components.

Installation • Recessed grips on the appliance ensure safe handling. • Straightforward replacement of all standard wall mounted cylinders. The universal mounting bracket enables quick and straightforward wall mounting. • The integral cylinder can be installed in systems with plastic, copper or stainless steel pipework. • The flanged immersion heater is easy to remove and is equipped with a second sensor well for external control of the heat generator. The large flanged aperture enables convenient descaling. • The DHW circulation connection increases hot water convenience in longer pipe networks. • The connection to the tubular indirect coil is on the left or right, depending on the model.

Safety • The high grade protective anode and the steel inner cylinder with special „anticor“ directly applied enamel coating protect against corrosion. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing at low temperatures.

		PSH 80 WE-L	PSH 80 WE-R	PSH 120 WE-L	PSH 120 WE-R
Part number		**236230**	**236231**	**236232**	**236233**
Specification					
Connected load ~ 230 V	kW	2	2	2	2
Phases		1/N/PE	1/N/PE	1/N/PE	1/N/PE
Rated voltage	V	220-240	220-240	220-240	220-240
Frequency	Hz	50/60	50/60	50/60	50/60
Standby power consumption/24 h at 65 °C	kWh	0.893	0.893	1.19	1.19
Energy efficiency class		B	B	B	B
Nominal capacity	l	79	79	120	120
Mixed water amount at 40 °C	l	128	128	209	209
Surface area, heat exchanger	m²	0.60	0.60	0.60	0.60
Temperature setting range	°C	5-80	5-80	5-80	5-80
Min./max. conductivity, DHW	µS/cm	100-1500	100-1500	100-1500	100-1500
Max. flow rate	l/min	23.5	23.5	23.5	23.5
Colour		white	white	white	white
IP rating		IP25	IP25	IP25	IP25
Height	mm	871	871	1178	1178
Depth	mm	520	520	520	520
Weight, empty	kg	37.20	37.20	48.10	48.10

		PSH 150 WE-L	PSH 150 WE-R	PSH 200 WE-L	PSH 200 WE-R
Part number		**236234**	**236235**	**236236**	**236237**

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		PSH 150 WE-L	PSH 150 WE-R	PSH 200 WE-L	PSH 200 WE-R
Specification					
Connected load ~ 230 V	kW	2	2	2	2
Phases		1/N/PE	1/N/PE	1/N/PE	1/N/PE
Rated voltage	V	220-240	220-240	220-240	220-240
Frequency	Hz	50/60	50/60	50/60	50/60
Standby power consumption/24 h at 65 °C	kWh	1.426	1.426	1.803	1.803
Energy efficiency class		C	C	C	C
Nominal capacity	l	151	151	191	191
Mixed water amount at 40 °C	l	278	278	395	395
Surface area, heat exchanger	m²	0.60	0.60	0.60	0.60
Temperature setting range	°C	5-80	5-80	5-80	5-80
Min./max. conductivity, DHW	µS/cm	100-1500	100-1500	100-1500	100-1500
Max. flow rate	l/min	23.5	23.5	23.5	23.5
Colour		white	white	white	white
IP rating		IP25	IP25	IP25	IP25
Height	mm	1410	1410	1715	1715
Depth	mm	520	520	520	520
Weight, empty	kg	55.20	55.20	65.30	65.30

Safety valve (Product: 236230, 236231, 236232, 236233, 236234, 236235, 236236, 236237)

PSH WE-H

PSH 80 WE-H

Benefits

- Variable temperature setting ensures a high level of convenience
- A DHW circulation connection increases hot water convenience in longer pipe networks
- Durable, low-scaling stainless steel heating element
- Personalised hot water convenience thanks to connection for heat exchanger and electric heating element
- High energy efficiency thanks to very low standby energy losses
- Visual monitoring of water temperatures via temperature curve display
- Easy to transport and install with ergonomic recessed grips on the appliance
- Wall mounting bracket for horizontal installation
- Safety valve 6.7 bar with non-return valve included in the standard delivery

Application • These horizontal wall mounted combi cylinders supply DHW simultaneously to multiple draw-off points – e.g. individual or group supply to the bathroom and kitchen. • The wall mounted combi cylinders are equipped with a stainless steel electric tubular heater. The integral tubular indirect coil allows connection to a central heating system. • The pressure-tested appliance can be combined with all commercially available pressure taps.

Convenience features • The preferred temperature can be variably adjusted and easily checked using the temperature curve display. • A visual display indicates when the appliance is heating up.

Efficiency • Low energy losses due to high grade thermal insulation. • The integral cylinder operates extremely economically, because it is connected to the heating system via the integral tubular indirect coil. • The design for recycling ensures that the various components can be sorted in an environmentally responsible way.

Installation • The integral recessed grips facilitate handling. • Straightforward replacement of all standard wall mounted cylinders. Quick and straightforward wall mounting thanks to the universal wall mounting bracket. • Suitable for installation in systems with plastic, copper or stainless steel pipework. • The easy-to-remove flanged immersion heater is equipped with a second sensor well for external control of the heat generator. • The large flanged aperture allows effective and convenient descaling. • The DHW circulation connection increases hot water convenience in longer pipe networks.

Safety • The high grade magnesium anode and the steel inner cylinder with special „anticor“ directly applied enamel coating protect against corrosion for a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

		PSH 80 WE-H	PSH 120 WE-H	PSH 150 WE-H	PSH 200 WE-H
Part number		**236238**	**236239**	**236240**	**236241**
Specification					
Connected load ~ 230 V	kW	2	2	2	2
Phases		1/N/PE	1/N/PE	1/N/PE	1/N/PE
Rated voltage	V	220-240	220-240	220-240	220-240
Frequency	Hz	50/60	50/60	50/60	50/60
Standby power consumption/24 h at 65 °C	kWh	1.298	1.691	1.973	2.31
Energy efficiency class		C	C	C	C
Nominal capacity	l	79	120	151	191
Mixed water amount at 40 °C	l	137	181	270	313
Surface area, heat exchanger	m²	0.60	0.60	0.60	0.60
Temperature setting range	°C	5-80	5-80	5-80	5-80
Min./max. conductivity, DHW	µS/cm	100-1500	100-1500	100-1500	100-1500
Max. flow rate	l/min	23.5	23.5	23.5	23.5
Colour		white	white	white	white
IP rating		IP25	IP25	IP25	IP25
Width	mm	871	1178	1410	1715
Depth	mm	538	538	538	538
Weight, empty	kg	42.20	54.10	61.20	72.50

Safety valve (Product: 236238, 236239, 236240, 236241)

Safety assemblies
Accessories 98

Safety assemblies

SRT

SRT 2

Benefits

› The safety assembly is used as fuse protection for unvented DHW cylinders

Description • This safety assembly for surface mounting of unvented wall mounted cylinders and pressurised small water heaters can be installed horizontally or vertically.

		SRT 2
Part number		**230764**
Specification		
Max. permissible pressure	MPa	0.60
Pressure reducing valve		-
Drip water connection		•
Installation type		Surface-mounted
Safety valve	bar	6

ST GP

Benefits

› The safety valve is used as fuse protection for unvented DHW cylinders

Description • Safety valve for wall and floor mounted cylinders.

ST GP 1/2"

		ST GP 1/2“	ST GP 3/4“
Part number		**073945**	**073946**
Specification			
Max. permissible pressure	MPa	0.60	0.60
Water connection		G 1/2	G 3/4

Application areas

Nominal capacity

	L	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
SHW 200 S						■	■															
SHW 300 S								■	■													
SHW 400 S										■	■											

	L	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
SHW 200 ACE						■	■															
SHW 300 ACE								■	■													
SHW 400 ACE										■	■											

	L	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
SHO AC 600 6/12 kW														■	■							
SHO AC 600 7,5 kW														■	■							
SHO AC 1000 9/18 kW																					■	■
SHO AC 1000 12 kW																					■	■

	L	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
SB 302 S								■	■													
SB 402 S										■	■											

	L	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
SB 602 AC														■	■							
SB 1002 AC																					■	■

Electric floor mounted cylinders, pressurised
- **SHW S** 102
- **SHW ACE** 104
- **SHO AC** 106

Floor mounted combi cylinders, pressurised
- **SB S** 108
- **SB AC** 109

Electric floor mounted cylinders, pressurised

SHW S

SHW 200 S

Benefits

- Variable temperature setting via rotary selector
- Simple maintenance due to signal anode with display element
- Water temperature monitored by thermometer
- Improved comfort/convenience with DHW circulation connection
- Universal flanged immersion heater for single/dual circuit operation with a selectable connected load
- Extremely economical due to favourable electricity tariffs (optional off-peak tariff connection)
- Very low energy losses thanks to high grade thermal insulation
- Complete cylinder casing with plastic jacket, cover and fascia
- The steel inner cylinder features a special directly applied enamel coating for a long service life
- Compensation for uneven floors via height-adjustable feet

Application • These floor mounted cylinders are suitable for family houses and apartment buildings with a high DHW demand and a high draw-off rate. Water can be supplied to multiple draw-off points simultaneously (group supply). • The unvented, pressure-tested appliances can be used with all commercially available pressure taps. • The flanged immersion heater is suitable for single circuit operation or cost efficient dual circuit operation with an off-peak economy tariff connection.

Convenience features • The required water temperature can be variably adjusted and is maintained at the selected temperature, depending on the controller. The maximum temperature limit can be set manually. • A „rapid heat-up“ button provides additional convenience for increased DHW demand. • The individual components are designed for environmentally responsible sorting and recycling.

Efficiency • The high grade thermal insulation protects the steel inner cylinder with directly applied foam insulation against heat loss.

Installation • Selectable connected load. • The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. • Standard delivery includes a multi-directional stainless steel cold water inlet pipe for easy-to-install cold water connection. • A DHW circulation connection increases hot water convenience in longer pipe networks. • The height-adjustable feet compensate for unevenness in the floor. • The copper flanged immersion heater is easy to replace.

Safety • The floor mounted cylinders are splashproof. • The magnesium sacrificial anode with visible replacement signal ensures optimum corrosion protection. • The steel inner cylinder with special „anticor“ directly applied enamel coating on the inside helps to ensure a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

		SHW 200 S	SHW 300 S	SHW 400 S
Part number		**182120**	**182121**	**182122**
Specification				
Connected load ~ 230 V	kW	2-4	2-4	2-4
Connected load ~ 400 V	kW	2-6	2-6	2-6
Power supply		1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE
Rated voltage	V	230/400	230/400	230/400
Frequency	Hz	50/60	50/60	50/60
Load profile		XL	XL	XL
Energy efficiency class		C	C	C
Standby energy consumption/24 h at 65 °C	kWh	1.40	1.80	2.10
Nominal capacity	l	200	300	400
Mixed water amount at 40 °C	l	318	447	639
Temperature setting range	°C	35-82	35-82	35-82
Max. flow rate	l/min	30	38	45
Max. permissible pressure	MPa	0.60	0.60	0.60
Flanged immersion heater version		universal	universal	universal
Colour		pure white/basalt grey	pure white/basalt grey	pure white/basalt grey
IP rating		IP24	IP24	IP24
Water connection		G 1 A	G 1 A	G 1 A
Height	mm	1578	1593	1763
Width	mm	630	700	750
Depth	mm	730	815	865
Weight, empty	kg	65	77	90

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Electric floor mounted cylinders, pressurised

		SHW 200 S	SHW 300 S	SHW 400 S
Required accessories				
Part number		**074370**	**074370**	**074370**
Type		ZH 1	ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested
Part number		**074371**	**074371**	**074371**
Type		DMV/ZH 1	DMV/ZH 1	DMV/ZH 1
Description		Pressure reducing valve	Pressure reducing valve	Pressure reducing valve
Part number		**074373**		
Type		SV 1/2 6 bar		
Description		Safety valve for DHW cylinder		
Part number			**074374**	**074374**
Type			SV 3/4 6 bar	SV 3/4 6 bar
Description			Safety valve for DHW cylinder	Safety valve for DHW cylinder

Electric floor mounted cylinders, pressurised

SHW ACE

SHW 200 ACE

Benefits

- Variable temperature setting via rotary selector
- High grade protective anode to protect cylinder from corrosion
- Water temperature monitored by thermometer
- Improved comfort/convenience with DHW circulation connection
- Efficient single circuit operation with selectable connected load
- Very low energy losses thanks to high grade thermal insulation
- Plastic jacket to protect the cylinder
- The steel inner cylinder features a special directly applied enamel coating for a long service life

Application • These floor mounted cylinders supply DHW to detached houses and apartment buildings with high DHW demand and a high draw-off rate. • The unvented, pressure-tested appliances also provide a group supply to multiple DHW draw-off points. They can be used with all commercially available pressure taps, and are suitable for single circuit operation.

Convenience features • The temperature is variably selected and maintained at the level set on the controller. • A temperature limit can be set if required.

Efficiency • Low heat losses due to high grade thermal insulation in the form of efficient directly applied foam. • Optimised design for recycling, with the ability to separate the various components and reusable materials.

Installation • Selectable connected load. • The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. • The integral DHW circulation connection increases hot water convenience in longer pipe networks. • The copper flanged immersion heater is easy to replace. • The floor mounted cylinder is splashproof.

Safety • The high quality signal anode with consumption indicator ensures comprehensive corrosion protection. The steel inner cylinder with special „anticor“ directly applied enamel coating is distinguished by its long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

		SHW 200 ACE	SHW 300 ACE	SHW 400 ACE
Part number		**070074**	**070075**	**070076**
Specification				
Connected load ~ 230 V	kW	2-6	2-6	2-6
Connected load ~ 400 V	kW	4-6	4-6	4-6
Power supply		1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE
Rated voltage	V	230/400	230/400	230/400
Frequency	Hz	50/60	50/60	50/60
Load profile		XL	XL	XL
Energy efficiency class		C	C	C
Standby energy consumption/24 h at 65 °C	kWh	1.90	2.30	2.60
Nominal capacity	l	200	300	400
Mixed water amount at 40 °C	l	317	490	618
Temperature setting range	°C	35-82	35-82	35-82
Max. flow rate	l/min	30	38	45
Max. permissible pressure	MPa	0.60	0.60	0.60
Flanged immersion heater version		Single circuit	Single circuit	Single circuit
Colour		white	white	white
Water connection		G 1	G 1	G 1
Height	mm	1578	1593	1763
Width	mm	550	650	700
Depth	mm	690	790	840
Weight, empty	kg	54	67	85
Required accessories				
Part number		**074370**	**074370**	**074370**
Type		ZH 1	ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested
Part number		**074371**	**074371**	**074371**
Type		DMV/ZH 1	DMV/ZH 1	DMV/ZH 1
Description		Pressure reducing valve	Pressure reducing valve	Pressure reducing valve

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Electric floor mounted cylinders, pressurised

		SHW 200 ACE	SHW 300 ACE	SHW 400 ACE
Part number		**074373**		
Type		SV 1/2 6 bar		
Description		Safety valve for DHW cylinder		
Part number			**074374**	**074374**
Type			SV 3/4 6 bar	SV 3/4 6 bar
Description			Safety valve for DHW cylinder	Safety valve for DHW cylinder

Electric floor mounted cylinders, pressurised

SHO AC

SHO AC 600 6/12 kW

Benefits

- Variable temperature setting via rotary selector
- Simple maintenance due to signal anode with display element
- Water temperature monitored by thermometer
- Improved comfort/convenience with DHW circulation connection
- Flanged immersion heater suitable for single circuit operation or dual circuit/single circuit operation, depending on type
- Extremely economical due to favourable electricity tariffs (optional off-peak tariff connection)
- The steel inner cylinder features a special directly applied enamel coating for a long service life

Application • These floor mounted cylinders have been developed for a very high DHW demand and draw-off rate. They are suitable for DHW supply to multiple draw-off points (individual and group supply) in residential, commercial and industrial buildings. • The pressure-tested, unvented appliances can be connected to all commercially available pressure taps. • The flanged immersion heater can be used for single circuit or dual circuit operation, depending on the model.

Convenience features • The required water temperature can be variably adjusted and is maintained at the selected temperature, depending on the controller. The maximum temperature limit can be set manually. • The individual components are designed for environmentally responsible sorting and recycling.

Efficiency • Thanks to the optional retrofittable thermal insulation, the floor mounted cylinder achieves very good efficiency values and the standby energy consumption is reduced.

Installation • The connected load of these splashproof appliances varies by type. • The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. • A DHW circulation connection increases hot water convenience in longer pipe networks. • Individual heating elements can be easily replaced.

Safety • The magnesium sacrificial anode with visible replacement signal provides additional corrosion protection. • The steel inner cylinder with special „anticor“ directly applied enamel coating on the inside helps to ensure a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

		SHO AC 600 6/12 kW	SHO AC 600 7,5 kW	SHO AC 1000 9/18 kW	SHO AC 1000 12 kW
Part number		**003352**	**001414**	**003353**	**001415**
Specification					
Connected load ~ 400 V	kW	6-12	7,5	9/18	12
Power supply		3/N/PE	3/PE	3/N/PE	3/PE
Rated voltage	V	400	400	400	400
Frequency	Hz	50	50/60	50	50
Load profile		XL	XL	XL	XL
Energy efficiency class		C	C	C	C
Standby energy consumption/24 h at 65 °C	kWh	2.90	2.90	3.70	3.70
Nominal capacity	l	600	600	1000	1000
Mixed water amount at 40 °C	l	1134	835	1829	1533
Temperature setting range	°C	35-85	35-85	35-85	35-85
Max. flow rate	l/min	40	40	45	45
Max. permissible pressure	MPa	0.60	0.60	0.60	0.60
Flanged immersion heater version		universal	universal	universal	universal
Colour		black	black	black	black
IP rating		IP24	IP24	IP24	IP24
Water connection		G 2 A / G 1 1/2 A	G 2 A / G 1 1/2 A	G 2 A / G 1 1/2 A	G 2 A / G 1 1/2 A
Height	mm	1685	1685	2525	2525
Width	mm	750	750	750	750
Depth	mm	1000	1000	1000	1000
Weight, empty	kg	161	160	232	230
Required accessories					
Part number		**074370**	**074370**	**074370**	**074370**
Type		ZH 1	ZH 1	ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested

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Electric floor mounted cylinders, pressurised

		SHO AC 600 6/12 kW	SHO AC 600 7,5 kW	SHO AC 1000 9/18 kW	SHO AC 1000 12 kW
Part number		**074371**	**074371**	**074371**	**074371**
Type		DMV/ZH 1	DMV/ZH 1	DMV/ZH 1	DMV/ZH 1
Description		Pressure reducing valve	Pressure reducing valve	Pressure reducing valve	Pressure reducing valve
Part number		**074374**	**074374**	**074374**	**074374**
Type		SV 3/4 6 bar	SV 3/4 6 bar	SV 3/4 6 bar	SV 3/4 6 bar
Description		Safety valve for DHW cylinder	Safety valve for DHW cylinder	Safety valve for DHW cylinder	Safety valve for DHW cylinder
Recommended accessories					
Part number		**236077**	**236077**		
Type		WDS 600	WDS 600		
Description		Thermal insulation, floor mounted cylinder	Thermal insulation, floor mounted cylinder		
Part number				**236078**	**236078**
Type				WDS 1000	WDS 1000
Description				Thermal insulation, floor mounted cylinder	Thermal insulation, floor mounted cylinder

Floor mounted combi cylinders, pressurised

SB S

SB 302 S

Benefits

- Connection according to individual requirements through the two flanged apertures
- Simple maintenance due to signal anode with display element
- Visual monitoring of water temperature via temperature display
- Complete cylinder casing with plastic jacket, cover and fascia
- Very low energy losses thanks to high grade thermal insulation
- The steel inner cylinder features a special directly applied enamel coating for a long service life

Application • These floor mounted cylinders ensure the supply of DHW in family houses, apartment buildings and commercial premises with a high DHW demand and a high draw-off rate. Their large nominal capacity and pressure-tested, unvented operation enable them to supply DHW to multiple draw-off points simultaneously.

Convenience features • The flanged apertures are equipped with dust caps, and are fitted with either an electric flanged immersion heater or a blank flange.

Safety • The high grade protective anode and steel inner cylinder with special „anticor“ directly applied enamel coating protect against corrosion and ensure a long service life.

		SB 302 S	SB 402 S
Part number		**185354**	**185355**
Specification			
Energy efficiency class		C	C
Standby losses S	W	79	94
Nominal capacity	l	300	400
Colour		pure white/basalt grey	pure white/basalt grey
Number of flanged apertures		2	2
Water connection		G 1 A	G 1 A
Height	mm	1585	1755
Width	mm	700	750
Depth	mm	700	750
Immersion depth	mm	530	580
Weight, empty	kg	101	119
Flange diameter	mm	210	210
Required accessories			
Part number		**074370**	**074370**
Type		ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested
Part number		**074371**	**074371**
Type		DMV/ZH 1	DMV/ZH 1
Description		Pressure reducing valve	Pressure reducing valve
Part number		**074374**	**074374**
Type		SV 3/4 6 bar	SV 3/4 6 bar
Description		Safety valve for DHW cylinder	Safety valve for DHW cylinder
Part number		**074375**	**074375**
Type		SV 3/4 10 bar	SV 3/4 10 bar
Description		Safety valve for DHW cylinder	Safety valve for DHW cylinder
Recommended accessories			
Part number		**071330**	**071330**
Type		FCR 21/60	FCR 21/60
Description		Flanged immersion heater	Flanged immersion heater
Part number		**071331**	**071331**
Type		FCR 21/120 E	FCR 21/120 E
Description		Flanged immersion heater	Flanged immersion heater
Part number		**076102**	**076102**
Type		B21	B21
Description		Blank flange, floor mounted cylinder	Blank flange, floor mounted cylinder

Floor mounted combi cylinders, pressurised

SB AC

SB 602 AC

Benefits

- Connection according to individual requirements through the two flanged apertures
- Simple maintenance due to signal anode with display element
- The steel inner cylinder features a special directly applied enamel coating for a long service life
- Visual monitoring of water temperature via temperature display

Application • These floor mounted cylinders are suitable for providing DHW in family houses, apartment buildings and commercial premises with a high DHW demand and offer a high draw-off rate. They can supply DHW to multiple draw-off points simultaneously.

Convenience features • An electric flanged immersion heater or a blank flange can be fitted in the flanged apertures, which are equipped with dust protection caps.

Safety • The high grade protective anode and the steel inner cylinder with special „anticor“ directly applied enamel coating protect against corrosion and ensure a long service life.

		SB 602 AC	SB 1002 AC
Part number		**071554**	**071282**
Specification			
Standby losses S	W	108	146
Nominal capacity	l	600	1000
Water connection		G 2 A / G 1 1/2 A	top/bottom: G 2 / G 1 1/2
Height	mm	1685	2525
Width	mm	750	750
Depth	mm	800	800
Weight, empty	kg	154	212
Required accessories			
Part number		**074370**	**074370**
Type		ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested
Part number		**074371**	**074371**
Type		DMV/ZH 1	DMV/ZH 1
Description		Pressure reducing valve	Pressure reducing valve
Part number		**074374**	**074374**
Type		SV 3/4 6 bar	SV 3/4 6 bar
Description		Safety valve for DHW cylinder	Safety valve for DHW cylinder
Part number		**074375**	**074375**
Type		SV 3/4 10 bar	SV 3/4 10 bar
Description		Safety valve for DHW cylinder	Safety valve for DHW cylinder
Recommended accessories			
Part number		**000694**	**000694**
Type		FCR 28/120 E	FCR 28/120 E
Description		Flanged immersion heater	Flanged immersion heater
Part number		**000695**	**000695**
Type		FCR 28/180 E	FCR 28/180 E
Description		Flanged immersion heater	Flanged immersion heater
Part number		**071332**	**071332**
Type		FCR 28/120	FCR 28/120
Description		Flanged immersion heater	Flanged immersion heater
Part number		**071333**	**071333**
Type		FCR 28/180	FCR 28/180
Description		Flanged immersion heater	Flanged immersion heater
Part number		**076103**	**076103**
Type		B28	B28
Description		Blank flange, floor mounted cylinder	Blank flange, floor mounted cylinder

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Floor mounted combi cylinders, pressurised

		SB 602 AC	SB 1002 AC
Part number		**234503**	**234503**
Type		FCR 28/120 CrNi	FCR 28/120 CrNi
Description		Flanged immersion heater	Flanged immersion heater
Part number		**236079**	
Type		WDS 602	
Description		Thermal insulation, floor mounted cylinder	
Part number			**236080**
Type			WDS 1002
Description			Thermal insulation, floor mounted cylinder

Electric threaded immersion heaters and flanged immersion heaters
Accessories 112
Safety assemblies
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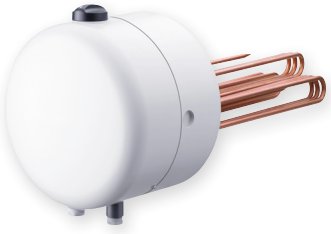
Thermal insulation
Accessories 116

Electric threaded immersion heaters and flanged immersion heaters

FCR



Benefits

- Replaceable copper heating element
- For matching to individual usage scenarios
- High hot water convenience thanks to powerful heating elements
- Variable temperature setting via rotary selector

Description • The flanged immersion heaters are suitable for horizontal installation in unvented DHW cylinders with flange connectors to DIN 4805. • The temperature can be variably adjusted. It is possible to limit the temperature. • Please note the details supplied by the cylinder manufacturer, as well as DIN 4753 and DIN 4751.

FCR 21/60

		FCR 21/60	FCR 21/120 E	FCR 28/120	FCR 28/120 E
Part number		**071330**	**071331**	**071332**	**000694**
Specification					
Connected load ~ 230 V	kW	2-4	4		
Connected load ~ 400 V	kW	2-6	8/12	6/12	12
Power supply		1/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/PE	3/PE	3/PE
Rated voltage	V	230/400	230/400	400	400
Coil voltage	V	230	230	230	400
Frequency	Hz	50/60	50/60	50	50
Version		Dual/single circuit	Single circuit	Dual/single circuit	Single circuit
Integral contactor		X	-	X	X
IP rating		IP24	IP24	IP24	IP24
Immersion depth	mm	400	400	450	325
Flange diameter	mm	210	210	280	280

		FCR 28/120 CrNi	FCR 28/180	FCR 28/180 E
Part number		**234503**	**071333**	**000695**
Specification				
Connected load ~ 400 V	kW	6/12	9/18	18
Power supply		3/PE	3/PE	3/PE
Rated voltage	V	400	400	400
Coil voltage	V	230	230	400
Frequency	Hz	50	50	50
Version		Dual/single circuit	Dual/single circuit	Single circuit
Integral contactor		X	X	X
IP rating		IP24	IP24	IP24
Immersion depth	mm	450	450	325
Flange diameter	mm	280	280	280

(Product: 000694)

Temperature controller with frost protection setting (external), temperature limit possible, integral pushbutton for rapid heat-up, high limit safety cut-out, flange gasket, protective cover with two cable entries.

Temperature controller with frost protection setting, high limit safety cut-out, flange gasket, protective cover with two cable entries. (Product: 000694, 000695)

(Product: 000694)

BGC

Benefits
- For matching to individual usage scenarios
- High hot water convenience thanks to powerful heating elements
- Variable temperature setting via rotary selector

Application • This threaded immersion heater is suitable for sealed unvented heating systems and DHW heating systems. • The temperature can be variably adjusted; temperature limitation is possible. • The integral temperature controller is equipped with a high limit safety cut-out.

BGC 6 kW 500 mm ET

		BGC 6 kW 500 mm ET	BGC/45	BGC 2/60
Part number		**003769**	**075115**	**232030**
Specification				
Connected load ~ 230 V	kW	2-5,7	2-5,7	2-5,7
Connected load ~ 400 V	kW	6	6	6
Power supply		1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE
Rated voltage	V	230/400	230/400	230/400
Frequency	Hz	50/60	50/60	50/60
Version		Universal flange	Universal flange	Universal flange
IP rating		IP44	IP44	IP44
Immersion depth	mm	500	455	480

BG

Benefits
- Ideal for sealing the floor mounted cylinder if not all flanged apertures are used

Description • Blank flanges for sealing flanged apertures, enamel coated on the inside.

B21

		B21	B28
Part number		**076102**	**076103**
Specification			
Flange diameter	mm	210	280

Gaskets, screws with insulating sleeves and cover with thermal insulation.

Safety assemblies

ZH1

Benefits
- Maximum safety evidenced by DVGW certification mark
- Long service life and reliability thanks to the use of high quality components

Description • The safety assembly is suitable for combination with pressure-tested electric and integral cylinders. • Standard delivery includes a shut-off valve, non-return valve with service valve, pressure gauge connection, diaphragm safety valve and drain outlet. • To ensure that no waste water is sucked back, a pipe break is integrated into the drain outlet of the safety valve. • With its threaded fitting, the safety valve can be rotated, repositioned or replaced to match it to different installation situations. • The safety assembly enables angled or straight-through installation in horizontal and vertical pipework. • In vertical pipework, install the safety assembly only in a bottom to top flow direction. • A pressure reducing valve can be retrofitted if required.

ZH 1

		ZH 1
Part number		**074370**
Specification		
Safety valve response pressure	MPa	0.60
Pressure reducing valve		-
Drip water connection		•
Water connection		G 1 A
Installation type		Surface-mounted
Safety valve	bar	6

DMV/ZH 1

Benefits
- Reduced inlet pressure through additional pressure reducing valve

Description • Pressure reducing valve to supplement the safety assembly for pressure-tested electric and integral cylinders.

DMV/ZH 1

		DMV/ZH 1
Part number		**074371**
Specification		
Pressure reducing valve		•
Pressure reducing valve setting range	MPa	0,15 - 0,60
Water connection		G 1 A
Installation type		Surface-mounted

SV

SV 1/2 6 bar

Benefits
› The safety valve is used as fuse protection for unvented DHW cylinders

Description • Membrane safety valve with brass casing for pressurised DHW cylinders.

		SV 1/2 6 bar	SV 3/4 6 bar	SV 3/4 10 bar
Part number		**074373**	**074374**	**074375**
Specification				
Safety valve response pressure	MPa	0.60	0.60	1.00
Water connection		G 1/2	G 3/4	G 3/4

Thermal insulation

WDS

WDS 600

Benefits
- Two insulation semi-shells to make it easier to match the shape
- Graphite inserts for best insulation properties
- Low energy losses thanks to high grade thermal insulation

Application • This high grade thermal insulation, with sections for insulating the bottom and the cover, is suitable for floor mounted cylinders. • The insulation can be optimally fitted to the cylinder thanks to the wedge-shaped cut-outs in the side insulation sections. • The thermal insulation is easy to attach thanks to the integral zips.

		WDS 600	WDS 602	WDS 1000	WDS 1002
Part number		**236077**	**236079**	**236078**	**236080**
Specification					
Standby energy consumption/24 h at 65 °C	kWh	2.30	2.60	3.20	3.50
Height	mm	1850	1850	2690	2690
Thickness	mm	100	100	100	100

Compact DHW heat pumps 121

DHW heat pump accessories 133

SHP-I 300 H Plus

Place of Installation

Outdoor	**O**
Indoor	**I**

Type

Storage heat pump	**SHP**

Volumen

200 Liter	**20**
300 Liter	**30**

Defrosting

Active	**1**
Passive	**0**

Classification

Trend
Plus
Premium

Function

Flexible air mode	**F**
Heat exchanger	**H**

Application areas

Application limit heat source for heat pump operation

	°C	-10	-5	0	5	10	15	20	25	30	35	40	45
SHP-A 300 X Plus													
SHP-A 300 Plus													
SHP-A 220 Plus													

	°C	-10	-5	0	5	10	15	20	25	30	35	40	45
SHP-F 300 X Premium													
SHP-F 300 Premium													
SHP-F 220 Premium													

	°C	-10	-5	0	5	10	15	20	25	30	35	40	45
WWK 302													
WWK 302 H													
WWK 222 H													
WWK 222													

	°C	-10	-5	0	5	10	15	20	25	30	35	40	45
SHP-O 300 Plus													
SHP-O 200 Plus													

	°C	-10	-5	0	5	10	15	20	25	30	35	40	45
SHP-I 300 H Plus													
SHP-I 300 Plus													
SHP-I 200 Plus													

4

Floorstanding

SHP-A 220/300 (X) PLUS 122
SHP-F 220/300 (X) PREMIUM 124
WWK 222/302 (H) 126
SHP-O Plus 128
SHP-I Plus 130

SHP-A 220/300 (X) PLUS

SHP-A 300 X Plus

Benefits

- Fully wired compact series for recirculation air mode
- Efficient and hygienic DHW heating and high mixed water volumes due to Max. DHW temperature with heat pump 65 °C
- Categorised in the highest possible energy efficiency class for water heaters
- Permanently high efficiency and safety across the entire service life of the appliance, due to spring-loaded roll-bond heat exchanger
- Reduced operating costs via intelligent interface to increase consumption of on-site photovoltaic energy
- Highly reliable and cost saving due to the impressed current anode integrated as standard
- Display of the currently available mixed water amount via the LCD screen
- Very quiet operation due to sound-insulated compressor and positioning away from the air flow
- „X" version thanks to additional smooth tube indirect coil can be combined with a solar thermal system or an oil, gas or solid fuel boiler (incl. 2 sensor wells giving a choice of heat generator integration) (Product: 238635)

Application • This DHW heat pump for recirculation air mode supplies DHW efficiently to multiple draw-off points. It takes up only minimal space, thanks to its compact design. • It utilises the waste heat from other appliances in the installation room (e.g. freezer, tumble dryer, heating system) to increase the energy efficiency of the whole system.

Convenience • Very high hot water convenience is assured by the demanding draw-off profiles. • In order to heat the DHW efficiently and hygienically, high temperatures are possible even in heat pump-only operation. • User friendly operation thanks to the electronic controller with LCD screen, which conveniently displays the currently available mixed water volume. • Very quiet operation is made possible as the compressor is sound-insulated from the air stream. • The integral impressed current anode reduces costs and increases safety. The spring-loaded roll-bond heat exchanger ensures safety and efficient operation over the entire service life of the appliance.

Combination options • The intelligent interface integrated as standard allows communication with suitable photovoltaic systems. This helps to increase self-consumption of self-generated solar power. • The X version, with integral smooth tube indirect coil and 300 litre capacity, allows combination with solar thermal systems and oil, gas or solid fuel boilers.

Efficiency • The system works highly efficiently, with all appliances in the range rated in what is currently the highest possible energy efficiency class.

		SHP-A 300 X Plus	SHP-A 300 Plus	SHP-A 220 Plus
Part number		**238635**	**238634**	**238633**
Specification				
Energy efficiency class, DHW heating (indoor air)		A+	A+	A+
Nominal load profile (EN 16147)		XL	XL	L
Height x diameter	mm	1905 x 690	1905 x 690	1501 x 690
Weight	kg	156	135	120
Nominal capacity	l	291	302	220
COP (EN 16147 / A20)		3,51	3,51	3,55
Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20)	l	371	395	278
Average sound pressure level at 1 m distance, free field	dB(A)	45	45	45
Sound power level (EN 12102)	dB(A)	56	56	56
Min./max. application limits, heat source for heat pump operation	°C	+6/+42	+6/+42	+6/+42
Max. DHW temperature with heat pump	°C	65	65	65
Power supply		1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz
Auxiliary heater power consumption	kW	1.50	1.50	1.50
Surface area, heat exchanger	m²	1.30		

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		SHP-A 300 X Plus	SHP-A 300 Plus	SHP-A 220 Plus
Required accessories				
Part number		**074370**	**074370**	**074370**
Type		ZH 1	ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested

Energy efficiency class in accordance with EU Regulation no. 812/2013Rated data to EN 16147 – heat pump for recirculated airNominal data to EN 16147 - A15 = heat source recirculation air / A7 = heat source recirculation air (Product: 238635)Rated data to EN 16147 – heat pump for recirculated air

Energy efficiency class in accordance with EU Regulation no. 812/2013, rating from September 2017. Highest possible energy rating A until September 2017.Nominal data to EN 16147 - A15 = heat source recirculation air / A7 = heat source recirculation airRated data to EN 16147 – heat pump for recirculated air (Product: 238634)Nominal data to EN 16147 - A15 = heat source recirculation air / A7 = heat source recirculation airRated data to EN 16147 – heat pump for recirculated airEnergy efficiency class in accordance with EU Regulation no. 812/2013, rating from September 2017. Highest possible energy rating A until September 2017. (Product: 238633)

SHP-F 220/300 (X) PREMIUM

SHP-F 300 X Premium

Benefits

- Fully wired compact series for recirculation air operation or air duct/outdoor air operation
- Hygienic DHW heating and very high mixed water volumes with up to 65 °C in pure heat pump operation
- Categorised in the highest possible energy efficiency class for water heaters
- Maximum flexibility regarding positioning and installation in the room, with air routing optionally to the side and/or from above
- Permanently high efficiency and safety across the entire service life of the appliance, due to spring-loaded roll-bond heat exchanger
- Reduced operating costs via intelligent interface to increase consumption of on-site photovoltaic energy
- Highly reliable and cost saving due to the impressed current anode integrated as standard
- Display of the currently available mixed water amount via the LCD screen
- Very quiet operation due to sound-insulated compressor and positioning away from the air flow
- „X“ version thanks to additional smooth tube indirect coil can be combined with a solar thermal system or an oil, gas or solid fuel boiler (incl. 2 sensor wells giving a choice of heat generator integration) (Product: 238632)

Application • This compact DHW heat pump supplies DHW efficiently to multiple draw-off points. • The appliance is suitable for recirculation air and air duct operation even at low supply air temperatures. • Highly flexible positioning, because the air duct can be connected on the side or at the top (accessory required).

Convenience features • The demanding draw-off profiles ensure very high hot water convenience. High temperatures are possible in heat pump-only mode, which makes efficient and hygienic DHW heating possible. • High operating convenience. The electronic controller is equipped with an LCD screen, which displays the currently available mixed water amount. • Quiet operation thanks to compressor being sound-insulated from the air stream. • Reliable and cost saving due to the factory-fitted integral impressed current anode.

Combination options • To support the targeted increase of self-consumption, an intelligent interface for communication with suitable photovoltaic systems is integrated as standard. • The 300 litre model is equipped with an integral smooth tube indirect coil in the X version. The appliance can also be combined with a solar thermal system or an oil, gas or solid fuel boiler.

Efficiency • All appliances are noted for their high quality, reliable equipment and for their energy rating in what is currently the highest possible energy efficiency class. The spring-loaded roll-bond heat exchanger also plays a role in this, ensuring safety and efficiency over the entire service life of the appliance.

		SHP-F 300 X Premium	SHP-F 300 Premium	SHP-F 220 Premium
Part number		**238632**	**238631**	**238630**
Specification				
Energy efficiency class, DHW heating (outdoor air)		A+	A+	A+
Energy efficiency class, DHW heating (indoor air)		A+	A+	A+
Nominal load profile (EN 16147)		XL	XL	L
Height x diameter	mm	1905 x 690	1905 x 690	1501 x 690
Weight	kg	156	135	120
Nominal capacity	l	291	302	220
COP (EN 16147 / A20)		3,75	3,75	3,28
COP (EN 16147 / A7)		3,22	3,22	3,07
Nominal DHW temperature (EN 16147)	°C	55	55	55
Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20)	l	399	422	284
Maximum available nominal amount of DHW at 40 °C (EN 16147 / A7)	l	394	422	267
Indoor sound power level with 4 m air duct (EN 12102)	dB(A)	52	52	52

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		SHP-F 300 X Premium	SHP-F 300 Premium	SHP-F 220 Premium
Indoor sound power level without air duct (EN 12102)	dB(A)	60	60	60
Min./max. application limits, heat source for heat pump operation	°C	-8/+42	-8/+42	-8/+42
Max. DHW temperature with heat pump	°C	65	65	65
Power supply		1/N/PE ~ 230 V 50 Hz	1/N/PE ~ 230 V 50 Hz	1/N/PE ~ 230 V 50 Hz
Auxiliary heater power consumption	kW	1.50	1.50	1.50
Max. mixed water amount at 40 °C	l	440	465	330
Surface area, heat exchanger	m²	1.30		
Required accessories				
Part number		**074370**	**074370**	**074370**
Type		ZH 1	ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested
Recommended accessories				
Part number		**159320**	**159320**	**159320**
Type		LWF N 160	LWF N 160	LWF N 160
Description		Plug-in connector	Plug-in connector	Plug-in connector
Part number		**234022**	**234022**	**234022**
Type		LSWP 160-4 AL	LSWP 160-4 AL	LSWP 160-4 AL
Description		Air hose	Air hose	Air hose
Part number		**234108**	**234108**	**234108**
Type		BS LSWP 160-4 AL	BS LSWP 160-4 AL	BS LSWP 160-4 AL
Description		fixing clip	fixing clip	fixing clip
Part number		**234505**	**234505**	**234505**
Type		AWG 160 R	AWG 160 R	AWG 160 R
Description		Wall outlet	Wall outlet	Wall outlet
Part number		**236899**	**236899**	**236899**
Type		LUS 221/301	LUS 221/301	LUS 221/301
Description		Air diverter hood set	Air diverter hood set	Air diverter hood set

Energy efficiency class in accordance with EU Regulation no. 812/2013Energy efficiency class in accordance with EU Regulation no. 812/2013, rating from September 2017. Highest possible energy rating A until September 2017.Nominal data to EN 16147 - A15 = heat source, recirculation air / A7 = heat source, outdoor air (indoor installation) (Product: 238632, 238631, 238630)

WWK 222/302 (H)

WWK 302

Benefits

- Compact series specially developed for outdoor installation
- Also suitable for indoor installation (recirculation air mode)
- High available mixed water amount and hygienic DHW temperatures > 61 °C in heat pump mode
- Categorised in the highest possible energy efficiency class for water heaters
- Permanently high efficiency and safety across the entire service life of the appliance, due to spring-loaded roll-bond heat exchanger
- Reduced operating costs via intelligent interface to increase consumption of on-site photovoltaic energy
- Display of the currently available mixed water amount via the LCD screen
- Highly reliable and cost saving due to the impressed current anode integrated as standard
- Very quiet operation due to sound-insulated compressor and positioning away from the air flow
- Includes temperature and pressure safety valve (T&P valve)
- Integral emergency/auxiliary heater included as standard (Product: 232905, 233209)

Application • This compact DHW heat pump is installed outdoors and efficiently supplies DHW to multiple draw-off points. • Can also be installed indoors in recirculation air mode. • Quick and easy installation: no settings necessary; the DHW setpoint is preset.

Convenience features • The robust appliance is noted for its long service life in outdoor installations. Contributing to this are the stove enamelled metal casing and the refrigerant circuit assemblies which are insulated from the air stream. • The sophisticated draw-off profiles ensure a very high level of hot water convenience. • Heat pump-only mode enables very high volumes of mixed water to be achieved, in addition to hygiene-promoting water temperatures. • The electronic controller shows the currently available amount of mixed water on an LCD screen. The display is protected by a weatherproof cover. • Quiet operation thanks to compressor being sound-insulated from the air stream. • Reliable and cost saving due to the factory-fitted integral impressed current anode. A temperature and pressure safety valve (T&P valve) is included in the standard delivery.

Efficiency • Both sizes have energy efficiency class A. Contributing to this is the spring-loaded roll-bond heat exchanger which ensures efficiency and safety throughout the entire service life of the appliance.

		WWK 302	WWK 302 H	WWK 222 H	WWK 222
Part number		**231211**	**232905**	**233209**	**231209**
Specification					
Energy efficiency class, DHW heating (indoor air)		A	A	A+	A+
Nominal load profile (EN 16147)		XL	XL	L	L
Height x diameter	mm	1905 x 690	1905 x 690	1501 x 690	1501 x 690
Weight	kg	135	135	120	120
Nominal capacity	l	302	302	220	220
COP (EN 16147 / A20)		2,91	2,91	2,92	2,92
Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20)	l	457	457	322	322
Average sound pressure level at 1 m distance, free field	dB(A)	45	45	45	45
Sound power level (EN 12102)	dB(A)	56	56	56	56
Min./max. application limits, heat source for heat pump operation	°C	-5/+42	-5/+42	-5/+42	-5/+42
Max. DHW temperature with heat pump	°C	65	65	65	65
Power supply		1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz
Safety valve connection		Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4

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		WWK 302	WWK 302 H	WWK 222 H	WWK 222
Required accessories					
Part number		**074370**	**074370**	**074370**	**074370**
Type		ZH 1	ZH 1	ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested

Energy efficiency class in accordance with EU Regulation no. 812/2013

SHP-O Plus

SHP-O 300 Plus

Benefits

- DHW heat pump installed outdoors for recirculation air mode
- Especially environmentally responsible thanks to natural refrigerant R290
- Convenient control via MyStiebel app
- Easier access to relevant appliance components thanks to optimised appliance design
- Fast and uncomplicated remote maintenance thanks to integral connection to Servicewelt
- Easy combination with a photovoltaic system to utilise self-generated electricity (SG Ready – 4 operating states)
- Fast heating via electric immersion heater if even greater convenience is required
- Time saving PV installation thanks to integral cable ducts
- Low running costs thanks to advanced heat pump technology

Application • This energy efficient DHW heat pump is suitable for convenient central DHW heating. • It is used in family houses and supplies DHW independently of the heating system. The heat pump uses the ambient heat of the surroundings.

Convenience features • The slim, aesthetic design fits perfectly into any setting. • High temperatures are possible in heat pump-only mode, thus ensuring efficient and hygienic DHW heating. • Control is easy vial three buttons for quick access to boost, pairing and emergency modes. In addition, five status LEDs provide information on the current appliance status. • Extended functions are available via app. Thanks to the WLAN connection, the heat pump can be controlled from anywhere via smartphone or tablet. The app boosts operating convenience with a multitude of setting options and functions. • The hot water boost function in the app increases the level of convenience for a limited time, for example when guests are visiting. • Very quiet operation, as there is no compressor in the air flow of the heat pump. The appliance is also optimised for recirculation air mode. The axial fan and omission of a duct connection further cut noise emissions. • Futureproof, eco-friendly operation through the natural refrigerant R290. • To be able to use self-generated solar power for DHW heating, the integral smart interface communicates with suitable photovoltaic installations. • The heat pump can be combined with solar thermal systems or with oil or gas boilers. A version with integral heat exchanger is available for this.

Service • The appliance casing consists of three parts to allow quick access to all relevant components. This cuts servicing times and simplifies the replacement of various components. • The fault message is relayed via the app, from which a qualified contractor can be contacted directly or emergency mode activated. With integration in the STIEBEL ELTRON Servicewelt, qualified contractors can access the appliance remotely. • The heat pump runtimes are recorded via the app for optimum tracking.

Efficiency • As the (microchannel) condenser is located directly on the cylinder, the heat pump offers greater efficiency than conventional hot water generators. • Charge level matching: To enhance hot water convenience without the need for higher temperatures, users can set the minimum stored mixed water amount themselves.

Installation • The appliance is specially designed for outdoor installation. At the installation location, the heat pump is simply connected with the standard mains plug. After filling the heat pump cylinder, all that's left is to set the required DHW temperature. • Connection to a photovoltaic system is easy thanks to the appliance's optimised design. The integral cable ducts save installation time. • The appliance casing consists of three parts to allow quick access to all relevant components. This cuts servicing times and simplifies the replacement of various components. • The fault message is relayed via the app, from which a qualified contractor can be contacted directly or emergency mode activated. With integration in the STIEBEL ELTRON Servicewelt, qualified contractors can access the appliance remotely. • The heat pump runtimes are recorded via the app for optimum tracking.

		SHP-O 300 Plus	SHP-O 200 Plus
		NEW	NEW
Part number		**204473**	**204472**
Specification			
Energy efficiency class, DHW heating (indoor air)		A++	A++
Nominal load profile (EN 16147)		XL	L
Height x diameter	mm	1903 x 650	1478 x 650
Weight	kg	116	100
Nominal capacity	l	300	200
COP (EN 16147 / A20)		4,21	4,27
Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20)	l	415	267
Sound power level (EN 12102)	dB(A)	58,2	58,2
Min./max. application limits, heat source for heat pump operation	°C	+6/+43	+6/+43

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		SHP-O 300 Plus	SHP-O 200 Plus
Max. DHW temperature with heat pump	°C	65	65
Power supply		1/N/PE 220-240 V 50 Hz	1/N/PE 220-240 V 50 Hz
Auxiliary heater power consumption	kW	1.5	1.5
Safety valve connection		R 1/2	R 1/2
Required accessories			
Part number		**074370**	**074370**
Type		ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested
Recommended accessories			
Part number		**074371**	**074371**
Type		DMV/ZH 1	DMV/ZH 1
Description		Pressure reducing valve	Pressure reducing valve

SHP-I Plus

SHP-I 300 H Plus

Benefits

- DHW heat pump installed indoors for recirculation air mode
- Especially environmentally responsible thanks to natural refrigerant R290
- Intuitive operation using rotary selector or via app
- Easier access to relevant appliance components thanks to optimised appliance design
- Fast and uncomplicated remote maintenance thanks to integral connection to Servicewelt
- Easy combination with a photovoltaic system to utilise self-generated electricity (SG Ready – 4 operating states)
- Due to the small amount of refrigerant, there are no special requirements for the installation site
- Mains plug supplied as standard for straightforward, quick installation
- Time saving PV installation thanks to integral cable ducts
- Low running costs thanks to advanced heat pump technology

Application • This energy efficient DHW heat pump is suitable for convenient central DHW heating. • It is used in family houses and supplies DHW independently of the heating system. The heat pump uses the ambient heat in the installation room (e.g. waste heat from the heating system, freezer or tumble dryer).

Convenience features • The slim, aesthetic design is perfect for any installation room. • High temperatures are possible in heat pump-only mode, thus ensuring efficient and hygienic DHW heating. • It is very easily controlled by means of a rotary selector and three buttons for quick access to boost, pairing and emergency modes. In addition, five status LEDs provide information on the current appliance status. • Extended functions are available via app. Thanks to the WLAN connection, the heat pump can be controlled from anywhere via smartphone or tablet. The app boosts operating convenience with a multitude of setting options and functions. • The hot water boost function in the app increases the level of convenience for a limited time, for example when guests are visiting. • The heat pump dehumidifies and cools the air in the installation room. • Very quiet operation, as there are no components in the air flow of the heat pump. The appliance is also optimised for recirculation air mode. The axial fan and omission of a duct connection further cut noise emissions. • Futureproof, eco-friendly operation through the natural refrigerant R290. • To be able to use self-generated solar power for DHW heating, the integral smart interface communicates with suitable photovoltaic installations. • The heat pump can be combined with solar thermal systems or with oil, gas or solid fuel boilers. A version with integral heat exchanger and 300 litres capacity is available for this.

Service • The appliance casing consists of three parts to allow quick access to all relevant components. This cuts servicing times and simplifies the replacement of various components. • The fault message is relayed via the app, from which a qualified contractor can be contacted directly or emergency mode activated. With integration in the STIEBEL ELTRON Servicewelt, qualified contractors can access the appliance remotely. • The heat pump runtimes are recorded via the app for optimum tracking.

Efficiency • As the (microchannel) condenser is located directly on the cylinder, the heat pump offers greater efficiency than conventional hot water generators. • Charge level matching: To enhance hot water convenience without the need for higher temperatures, users can set the minimum stored mixed water amount themselves.

Installation • In the installation room, the heat pump is simply connected with the standard mains plug. After filling the heat pump cylinder, all that's left is to set the required DHW temperature. • Connection to a photovoltaic system is easy thanks to the appliance's optimised design. The integral cable ducts save installation time.

		SHP-I 300 H Plus	SHP-I 300 Plus	SHP-I 200 Plus
		NEW	NEW	NEW
Part number		**204478**	**204476**	**204474**
Specification				
Energy efficiency class, DHW heating (indoor air)		A+	A+	A+
Nominal load profile (EN 16147)		XL	XL	L
Height x diameter	mm	1903 x 650	1903 x 650	1478 x 650
Weight	kg	123	110	95
Nominal capacity	l	294	300	200
COP (EN 16147 / A20)		4,34	4,21	4,27
Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20)	l	390	415	267
Min./max. application limits, heat source for heat pump operation	°C	+6/+43	+6/+43	+6/+43
Max. DHW temperature with heat pump	°C	65	65	65

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		SHP-I 300 H Plus	SHP-I 300 Plus	SHP-I 200 Plus
Power supply		1/N/PE 230-240 V ~50 Hz	1/N/PE 230-240 V ~50 Hz	1/N/PE 230-240 V ~50 Hz
Auxiliary heater power consumption	kW	1.50	1.50	1.50
Surface area, heat exchanger	m²	0.90		
Required accessories				
Part number		**074370**	**074370**	**074370**
Type		ZH 1	ZH 1	ZH 1
Description		Safety assembly, pressure-tested	Safety assembly, pressure-tested	Safety assembly, pressure-tested
Recommended accessories				
Part number		**074371**	**074371**	**074371**
Type		DMV/ZH 1	DMV/ZH 1	DMV/ZH 1
Description		Pressure reducing valve	Pressure reducing valve	Pressure reducing valve

4

Installation accessories
Accessories 134

ZH1

Benefits
- Maximum safety evidenced by DVGW certification mark
- Long service life and reliability thanks to the use of high quality components

Description • The safety assembly is suitable for combination with pressure-tested electric and integral cylinders. • Standard delivery includes a shut-off valve, non-return valve with service valve, pressure gauge connection, diaphragm safety valve and drain outlet. • To ensure that no waste water is sucked back, a pipe break is integrated into the drain outlet of the safety valve. • With its threaded fitting, the safety valve can be rotated, repositioned or replaced to match it to different installation situations. • The safety assembly enables angled or straight-through installation in horizontal and vertical pipework. • In vertical pipework, install the safety assembly only in a bottom to top flow direction. • A pressure reducing valve can be retrofitted if required.

ZH 1

		ZH 1
Part number		**074370**
Specification		
Safety valve response pressure	MPa	0.60
Pressure reducing valve		-
Drip water connection		•
Water connection		G 1 A
Installation type		Surface-mounted
Safety valve	bar	6

BGC

Benefits
- For matching to individual usage scenarios
- High hot water convenience thanks to powerful heating elements
- Variable temperature setting via rotary selector

Application • This threaded immersion heater is suitable for sealed unvented heating systems and DHW heating systems. • The temperature can be variably adjusted; temperature limitation is possible. • The integral temperature controller is equipped with a high limit safety cut-out.

BGC 6 kW 500 mm ET

		BGC 6 kW 500 mm ET	BGC/45	BGC 2/60
Part number		**003769**	**075115**	**232030**
Specification				
Connected load ~ 230 V	kW	2-5,7	2-5,7	2-5,7
Connected load ~ 400 V	kW	6	6	6
Power supply		1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE
Rated voltage	V	230/400	230/400	230/400
Frequency	Hz	50/60	50/60	50/60
Version		Universal flange	Universal flange	Universal flange
IP rating		IP44	IP44	IP44
Immersion depth	mm	500	455	480

AWG

AWG 160 R

Benefits
› Highly convenient thanks to extremely quiet weather grille with very low pressure drop

Description • The thermally insulating wall outlet made of EPS is designed for the connection of an air duct. • To reliably prevent run marks on the external wall, the weather grille made of painted sheet steel has a drip edge. • If outdoor air is used as a heat source, no additional thermal insulation measures are needed for the pipe. This allows straightforward installation with small dimensions.

		AWG 160 R
Part number		**234505**
Specification		
Max. air flow rate	m³/h	350
Width of surround for weather grille	mm	220
Connection diameter	mm	160
Outer pipe diameter	mm	200
Pipe length	mm	545
Weight	kg	0.50
Wall outlet material		EPS (grey)
Weather grille material		Painted sheet steel (silver grey)
Condensation limit at: Temperature inside pipe / temperature around the pipe / relative humidity around the pipe		-20 °C / 20 °C / 60 %

LUS

LUS 221/301

Benefits
› Maximum flexibility thanks to horizontal or vertical air routing

Description • With the air diverter kit, the factory-fitted horizontal air routing on a STIEBEL ELTRON DHW heat pump can be switched to vertical. This choice between vertical or horizontal air routing allows greater flexibility in the installation room.

		LUS 221/301
Part number		**236899**
Specification		
Connection		DN 160
Diameter		160 mm

LSWP AL

Benefits
- Thermally insulated air hose
- Hose ends for connection, can be shaped into ovals
- Length: 400 cm

Description • The thermally insulated air hose is suitable for outdoor and exhaust air ducting. • The outside and inside are made from aluminium and polyester laminate. The inside is reinforced with a wire spiral. An intermediate layer of mineral wool provides thermal insulation.

LSWP 160-4 AL

		LSWP 160-4 AL
		NEW
Part number		**234022**
Specification		
Nominal diameter	mm	160
Length	mm	4000
Thermal insulation thickness	mm	50
Colour of air hose		Aluminium-coloured outer sheath
Required accessories		
Part number		**234108**
Type		BS LSWP 160-4 AL
Description		fixing clip

BS LSWP AL

Benefits
- Stainless steel clip for DN 160 and DN 200
- Stainless steel

Description • Fixing clip to DIN 3017. The band is made from stainless steel and the closure from hardened galvanised steel.

BS LSWP 160-4 AL

		BS LSWP 160-4 AL
		NEW
Part number		**234108**

Water filter 139

Filter cartridges

Sediment 13“ 140
Activated carbon block 13“ 141
Ultra filtration 13“ 142
Silver GAC & mineral balls 13“ 143
Stiebel House PS cartridge 144
Stiebel House ACB cartridge 145

Sediment 13“

Sediment Filter 13” (EX)

Benefits
- Durable PP surface with 1 micron pore size for efficient pre-filter removal functions
- Hygienic encapsulated cartridge
- “Push & click” system for easy filter replacement

Application • First stage sediment filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • The filter medium is made from durable polypropylene with a large surface area for outstanding filtration performance.

Replacement• The “push & click” function makes filter replacement as simple as pushing a button and changing the cartridge. A “click” sound signals that the filter has been inserted properly into the adaptor.

Safety & Quality • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter• Polypropylene, 1 µm. Reduces silt, rust, sediment and larger particles.

		Sediment Filter 13“ (EX)
Part number		**230875**
Specification		
Length of filter medium	Inches	13
Filtration stages		1
Filter stage 1		Sediment filter - 1 µm

Activated carbon block 13“

Activated carbon block 13” (EX)

Benefits
- Large carbon surface area for efficient particle removal
- High quality carbon material for better taste and filtration performance
- Strict quality control in both temperature and material ensures optimum performance of the carbon block
- Hygienic encapsulated cartridge
- “Push & click” system for easy filter replacement

Application • Second stage sediment filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • This filter medium is made from coconut shells and delivers outstanding filtration performance. • The activated carbon reduces herbicides, pesticides and turbidity, adsorbs chlorine, VOCs and TTHMs, and is also able to remove heavy metals such as lead and mercury.

Replacement • The “push & click” function makes filter replacement as simple as pushing a button and changing the cartridge. A “click” sound signals that the filter has been inserted properly into the adaptor.

Safety & Quality • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter• Activated carbon block, 0.5 µm. • Reduces unpleasant tastes and odours, chlorine, trihalomethanes, VOCs and heavy metals (lead, copper, aluminium, selenium, zinc, iron).

		Activated carbon block 13“ (EX)
Part number		**230877**
Specification		
Length of filter medium	Inches	13
Filtration stages		1
Filter stage 2		Activated carbon block - 0.5 µm

Ultra filtration 13“

Ultrafiltration 13” (EX)

Benefits
- High quality Ultra-filtration from hollow fiber membrane for 100% bacterial removal and no waste water, no electricity needed
- Hygienically encapsulated cartridge
- “Push & click” system for easy filter replacement“

Application • Third stage filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • Ultrafiltration (UF) membrane with microporous hollow fibre structure works as an efficient filter to remove 100 % of bacteria, particles down to 0.01 microns and some viruses.

Replacement • The “push & click” function makes filter replacement as simple as pushing a button and changing the cartridge. A “click” sound signals that the filter has been inserted properly into the adaptor.

Safety & Quality • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter • Ultrafiltration hollow fibre, 0.01 – 0.1 µm. • 100 % bacteria removal. • Removes cysts, bacteria, some viruses and algae.

		Ultrafiltration 13“ (EX)
Part number		**230879**
Specification		
Length of filter medium	Inches	13
Filtration stages		1
Filter stage 3		Ultra filtration (hollow fibre) - 0.1-0.01 µm

Silver GAC & mineral balls 13“

SILVER GAC & MINERAL BALLS 13” (EX)

Benefits
- A large volume of high-grade carbon powder improves the taste of the water in the last stage
- Antibacterial silver ions provide double protection of the water filter
- Hygienic encapsulated cartridge
- “Push & click” system for easy filter replacement

Application • Fourth and fifth-stage filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • This filter medium is made from coconut shells and delivers outstanding filtration performance. • Antibacterial carbon powder prevents harmful contaminants from entering and keeps the filter cartridge constantly fresh. • Oxidation Reduction Potential (ORP) mineral ceramic balls slightly reduce the ORP value, which antioxidises the water to increase our natural metabolism.

Replacement • The “push & click” function makes filter replacement as simple as pushing a button and changing the cartridge. A “click” sound signals that the filter has been inserted properly into the adaptor.

Safety • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter• 2 stages of carefully selected filter media are combined in one single filter cartridge.

1. ORP mineral balls. Reduce the ORP content of tap water

2. Post-carbon filter with silver ions. Improves the taste of the water; silver ions added to the carbon prevent the growth of bacteria inside the filter.

		SILVER GAC & MINERAL BALLS 13“ (EX)
Part number		**239935**
Specification		
Length of filter medium	Inches	13
Filtration stages		2
Filter stage 4		Activated carbon powder in granulated form
Filter stage 5		Mineral ceramic balls

Stiebel House PS cartridge

Stiebel House PS cartridge (EX)

Benefits
- Improves water quality by removing contaminants
- Durable and porous pleated filter media
- Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings
- Reduces limescale deposits with anti-limescale balls, for gleaming sanitary fittings
- Silverlite stone increases the safety of the whole filter system
- Suitable for use with various water sources

Application • 3-stage filter cartridge used with the Stiebel House PS-2.

Convenience features • The cartridge consists of durable pleated polypropylene with a large surface area, with Silverlite stone and anti-limescale balls for outstanding filtration performance. • Improves the water quality by removing dirt and contaminants (sand, soil, algae, etc.) from the inlet water with extra large, tightly pleated and durable filter media. • Less clogging of point-of-use filters and sanitary fittings (shower units, tap outlets, etc.). • Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings. • The growth of bacteria in the filter system is prevented thanks to silver ions. • Reduces limescale deposits with anti-limescale balls, for gleaming sanitary fittings and kitchenware. • Silverlite stone increases the safety of the whole filter system. It contains silver ions and several minerals to prevent the growth of bacteria inside the filter system and contamination from outside the filter.

Installation • The Stiebel House PS-2 filter cartridge can be changed conveniently using the wrench that comes with the original purchase.

Safety • The anti-limescale filter media are certified as safe for drinking water by NSF International with NSF Mark 60 for material safety.

Filter • 3 stages of carefully selected filter media.

1. Polypropylene pleated sediment, range 1 – 10 µm: Reduces silt, rust, sediment and particles larger than its pore size.

2. Silverlite stone: The insoluble Silverlite stone consists of CaO, SiO2, AlO3, MgO and MnO, and is coated with silver ions. It has a strong antibacterial effect and prohibits germs from entering the filter media.

3. Anti-limescale balls: Reduce limescale deposits in the inlet water

		Stiebel House PS cartridge (EX)
Part number		**239933**
Specification		
Length of filter medium	Inches	20
Filter stage 1		Sediment - 10 µm
Filter stage 2		Silverlite stone
Filter stage 3		NSF 60 certified anti-hardness polyphosphate crystal balls

Stiebel House ACB cartridge

Stiebel House ACB cartridge (EX)

Benefits
- Improves water quality by removing contaminants
- Improves water taste and odour by reducing chlorine, heavy metals and bacteria
- Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings
- Antibacterial silver ions provide double protection of the water filter
- Suitable for use with various water sources

Application • 2-stage filter cartridge used with the Stiebel House ACB-2.

Convenience features • The filter medium is made from coconut shells and silver ions. It improves the water quality and taste by reducing dirt particles, chlorine, heavy metals and some bacteria. • Delivers cleaner and safer drinking water with reduced odours. • Reduces allergies caused by chlorine and its harmful compounds for healthier fresh water usage. • Less clogging of point-of-use filters and sanitary fittings (shower units, tap outlets, etc.). • Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings. • Silverlite stone increases the safety of the whole filter system. It contains silver ions to prevent the growth of bacteria inside the filter system.

Installation • The Stiebel House ACB-2 filter cartridge can be changed conveniently using the wrench that was supplied with the original purchase.

Safety • The Stiebel House ACB-2 is tested by SGS

Filter • 2 stages of carefully selected filter media.

1. Activated carbon block, 5 µm: Reduces dirt particles, chlorine, heavy metals and some bacteria to give clearer, cleaner and safer outlet water.

2. Silverlite stone: Silver ions prevent the growth of bacteria inside the filter system

		Stiebel House ACB cartridge (EX)
Part number		**239934**
Specification		
Length of filter medium	Inches	20
Filtration stages		2
Filter stage 1		Activated carbon block with antibacterial silver media - 5 µm

Filter cartridges

Air source heat pumps, outdoor installation – inverter		151
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Accessories for air source heat pumps installed indoors		231

HP A-O 07.1 CS Premium

Place of installation

Outdoor	**O**
Indoor	**I**

Device type

Heat pump **HP**

Version counter

.1

Source

Air	**A**
Ground	**G**
Water	**W**

Classification

Trend
Plus
Premium

Heat output

at A-7/W35 or B0/W35 integer

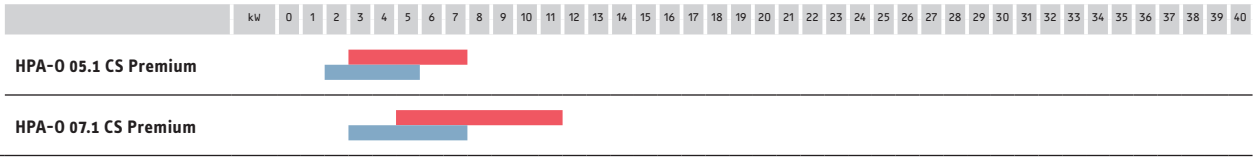
Function

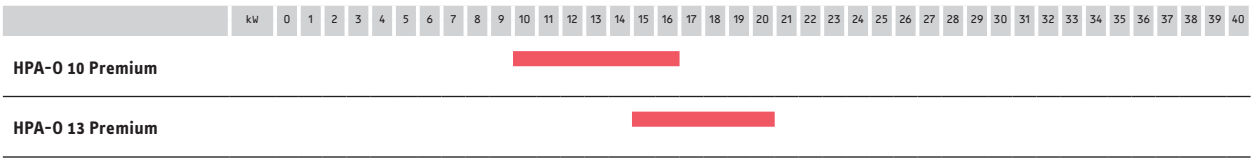
Duo (Integral DHW cylinder)	**D**
Cooling	**C**
Free field	**F**
Corner installation	**E**
Single Phase	**S**
Sound-optimized	**dB**

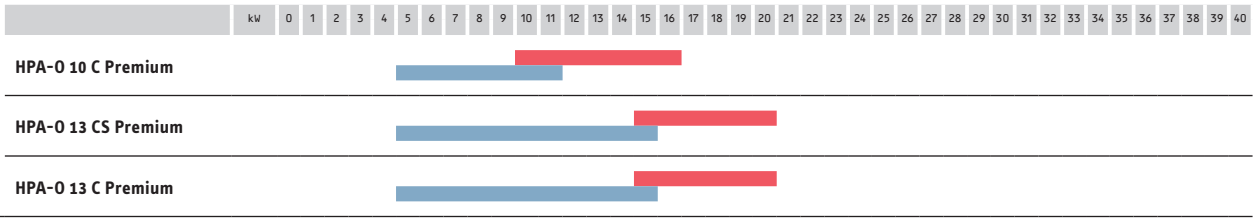
Application areas

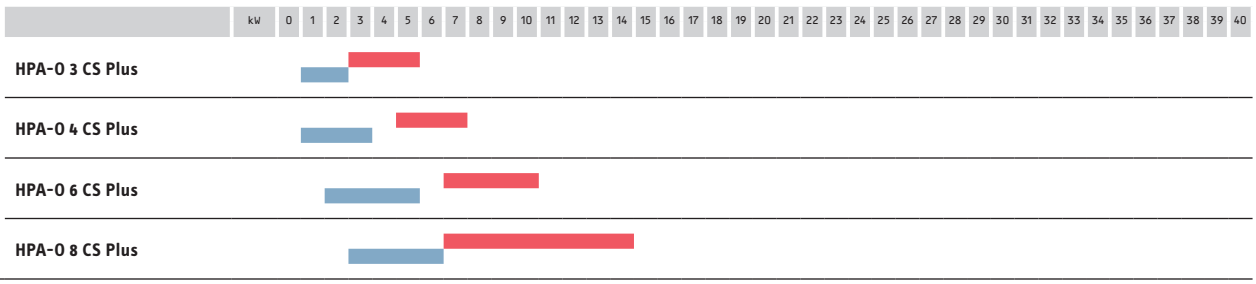
Heating

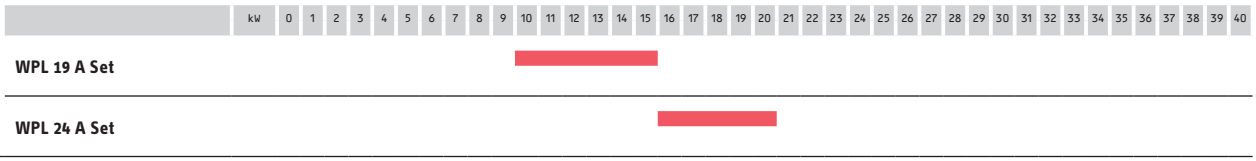
Cooling











Air source heat pumps, outdoor installation – inverter

Inverter

HPA-O 05.1/07.1 CS Premium 152
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HPA-O 05.1/07.1 CS Premium compact D Set 2 158
HPA-O 10.1 / 13.1 C Premium 159
HPA-O 10.1 / 13.1 Premium flex Set 164
HPA-O 7-13 Premium 165
HPA-O 7-13 C Premium 170
HPA-O 10/13 C Premium compact D Set 1 175
HPA-O 10/13 C Premium compact D Set 2 176
HPA-O 3-8 Plus 177
HPA-O CS Plus flex Set 180
HPA-O Plus compact Set 1.1 181
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HPA-O 05.1/07.1 CS Premium

HPA-O 05.1 CS Premium

Benefits

- The air source heat pump for heating and cooling is installed outdoors
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Suitable for energy modernisation projects, as the high supply flow temperature is available all year round
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- Futureproof and eco-friendly refrigerant with high efficiency
- High efficiency and low operating costs all year round, thanks to optimally matched components
- Can be integrated into the home network and operated via a smartphone

Application • This air source heat pump with output-dependent control and inverter technology is designed as a compact mono block appliance for outdoor installation. It delivers the required heating output, ensures a reliable supply of domestic hot water and can be used for efficient cooling through circuit reversal. • A flow temperature of up to 75 °C is available for heating mode and DHW heating. Protection against legionella is ensured without the need for an electric auxiliary heater. • The heat pump can also be used to heat older buildings via radiators, as a flow temperature of 55 °C can still be achieved even when there is a heavy frost (-25 °C outside temperature).

Convenience features • Very quiet operation is made possible by the encapsulated refrigerant circuit and acoustically isolated compressor. Contributing to the low sound power level are the modulating fan and the wide gaps between the evaporator fins which reduce air resistance. • High DHW temperatures are assured without the need for electric backup, even in the winter; this is because the heat pump works with high flow temperatures all year round. • The system can be integrated into a home network and controlled from a mobile device. For this, the on-site heat pump manager is combined with the Internet Service Gateway. With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation is possible thanks to the integral electric emergency/auxiliary heater. • The enamelled, corrosion-protected metal casing is made from hot-dip galvanised, powder coated sheet steel. Fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic.

Efficiency • The refrigerant circuit works with the eco-friendly, futureproof refrigerant R454C. When combined with the optimally matched components, highly efficient operation is possible all year round. This efficiency is helped by demand-dependent defrosting via circuit reversal and the heating of the condensate pan via the refrigerant circuit.• The hydrophilic coating on the fan nozzle prevents ice from forming, meaning that no electric heating is required.

Installation • The integral anti-vibration mount enables the heat pump to be connected directly to the heating system. • Simplified installation thanks to pivoting electrical connection panel. • Quick access to the condensate pan is possible via the cleaning aperture on the back of the casing.

		HPA-O 05.1 CS Premium	HPA-O 07.1 CS Premium
Part number		**202666**	**202668**
Specification			
Energy efficiency class, heat pump W35		A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++
Heating output at A7/W35 (EN 14511)	kW	3.31	3.31
Heating output at A2/W35 (EN 14511)	kW	3.19	4.30
Heating output at A-7/W35 (EN 14511)	kW	4.97	6.87
COP at A7/W35 (EN 14511)		5.42	5.42
COP at A2/W35 (EN 14511)		4.60	4.30
COP at A-7/W35 (EN 14511)		3.45	2.93
Max. cooling capacity at A35/W7	kW	4.73	7.30
Cooling capacity at A35/W18 partial load	kW	3.37	4.94
Max. cooling capacity at A35/W18	kW	6.86	10.15
Energy efficiency ratio at A35/W7 max.		2.86	2.35

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		HPA-O 05.1 CS Premium	HPA-O 07.1 CS Premium
Energy efficiency ratio at A35/W18 partial load		4.35	4.28
Energy efficiency ratio at A35/W18 max.		3.84	2.87
SCOP 35 °C (EN 14825)		4.70	4.88
Sound power level (EN 12102)	dB(A)	48	48
Min./max. application limits for heat source	°C	-25/40	-25/40
Max. application limit on the heating side	°C	75	75
Height	mm	900	900
Width	mm	1270	1270
Depth	mm	593	593
Weight	kg	135	135
Rated voltage, compressor	V	230	230
Rated voltage, emergency/auxiliary heater	V	230	230
Refrigerant		R454C	R454C
Required accessories			
Part number		**236000**	**236000**
Type		WPM international	WPM international
Description		Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure
Recommended accessories			
Part number		**229336**	**229336**
Type		ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway
Part number		**232805**	**232805**
Type		HM Trend	HM Trend
Description		Hydraulic module	Hydraulic module
Part number		**232964**	**232964**
Type		SK 1	SK 1
Description		T-support	T-support
Part number		**233622**	**233622**
Type		AS-WP 1	AS-WP 1
Description		Hydraulic connection set	Hydraulic connection set
Part number		**233623**	**233623**
Type		AS-WP 2	AS-WP 2
Description		Hydraulic connection set	Hydraulic connection set
Part number		**233826**	**233826**
Type		HMS Trend	HMS Trend
Description		Hydraulic module	Hydraulic module
Part number		**234722**	**234722**
Type		WK 2	WK 2
Description		Wall mounting bracket	Wall mounting bracket
DHW cylinder			
Part number		**202926**	**202926**
Type		HSBB 180 Plus	HSBB 180 Plus
Description		Integral cylinder	Integral cylinder
Part number		**202927**	**202927**
Type		HSBC 180 Plus	HSBC 180 Plus
Description		Integral cylinder	Integral cylinder
Part number		**203082**	**203082**
Type		HSBC 180 S Plus	HSBC 180 S Plus
Description		Integral cylinder	Integral cylinder
Part number		**203084**	**203084**
Type		HSBB 180 S Plus	HSBB 180 S Plus
Description		Integral cylinder	Integral cylinder

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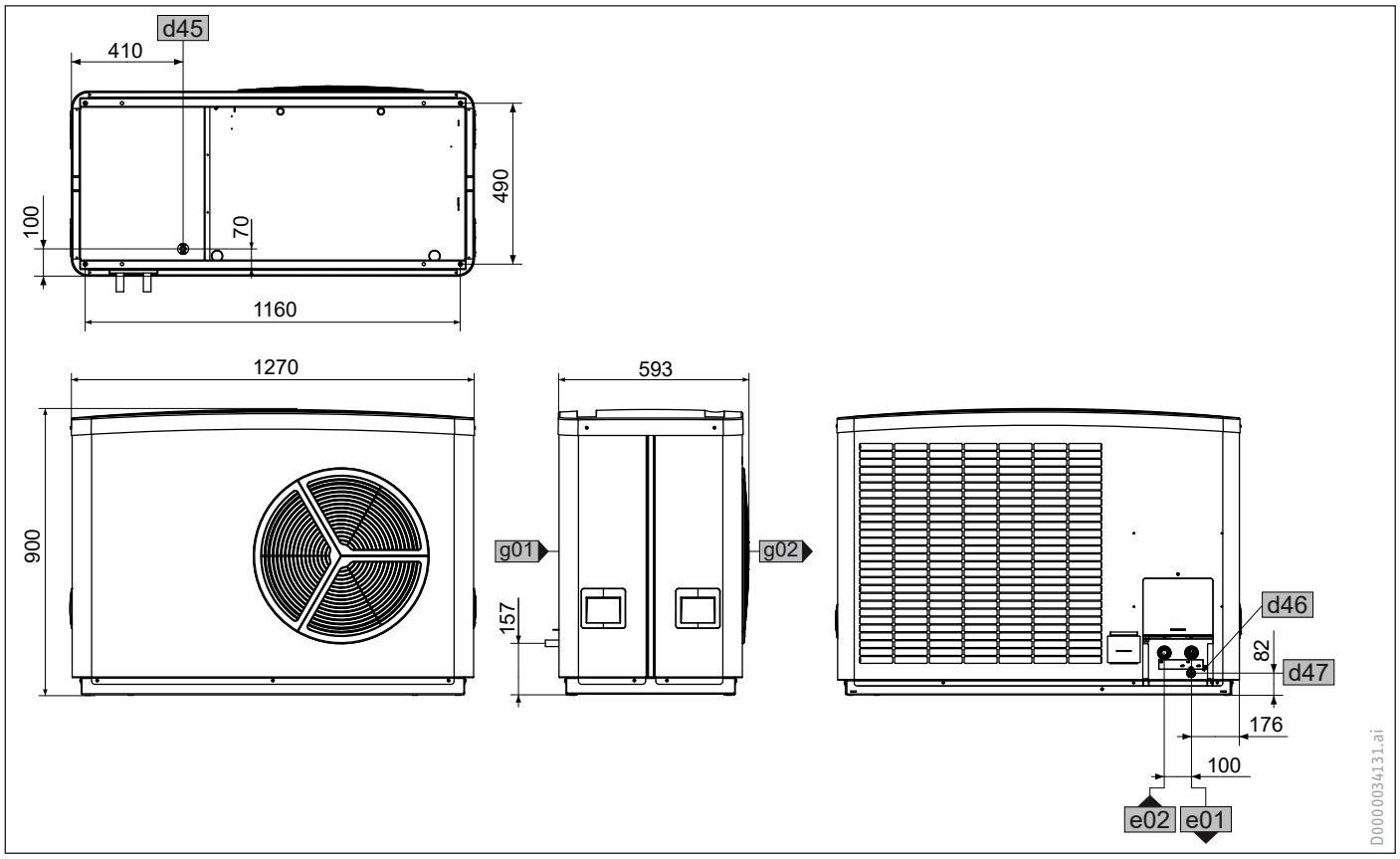
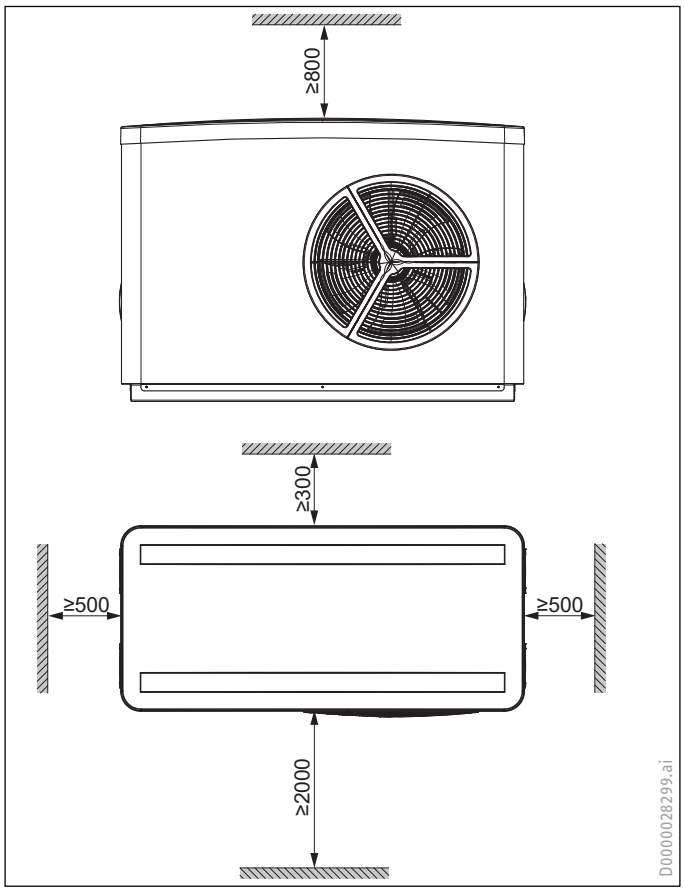
		HPA-O 05.1 CS Premium	HPA-O 07.1 CS Premium
Part number		**203801**	**203801**
Type		HSBC 300 cool	HSBC 300 cool
Description		Integral cylinder	Integral cylinder
Part number		**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder
Part number		**229980**	**229980**
Type		SBS 601 W	SBS 601 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Part number		**233510**	**233510**
Type		HSBC 200	HSBC 200
Description		Integral cylinder	Integral cylinder
Part number		**234801**	**234801**
Type		HSBC 200 S	HSBC 200 S
Description		Integral cylinder	Integral cylinder
Buffer cylinder			
Part number		**205295**	**205295**
Type		SBP 200 Plus cool	SBP 200 Plus cool
Description		Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation

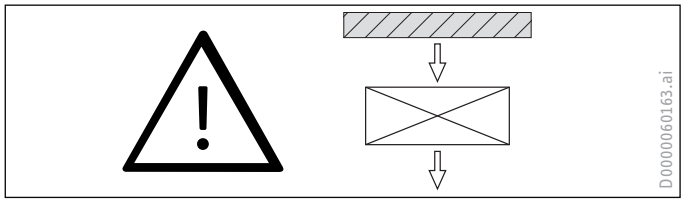


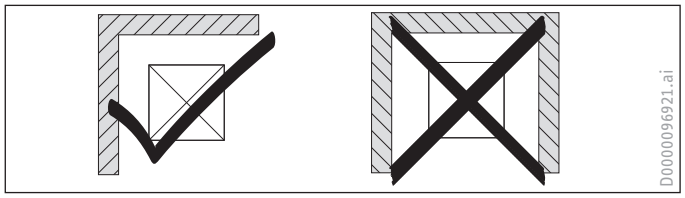
		HPA-O 05.1 CS Premium	HPA-O 07.1 CS Premium
d45 Condensate drain - diameter	mm	29.6	29.6
d47 Drain		•	•
e01 Heating flow - connection type		Plug-in connection	Plug-in connection
e01 Heating flow - diameter	mm	28	28
e02 Heating return - connection type		Plug-in connection	Plug-in connection
e02 Heating return - diameter	mm	28	28
g01 Air intake		•	•
g02 Air discharge		•	•

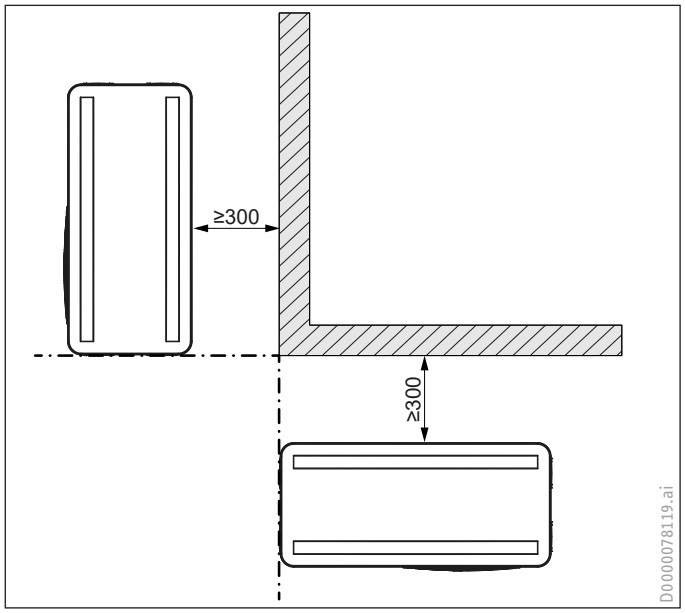
Minimum clearance diagram

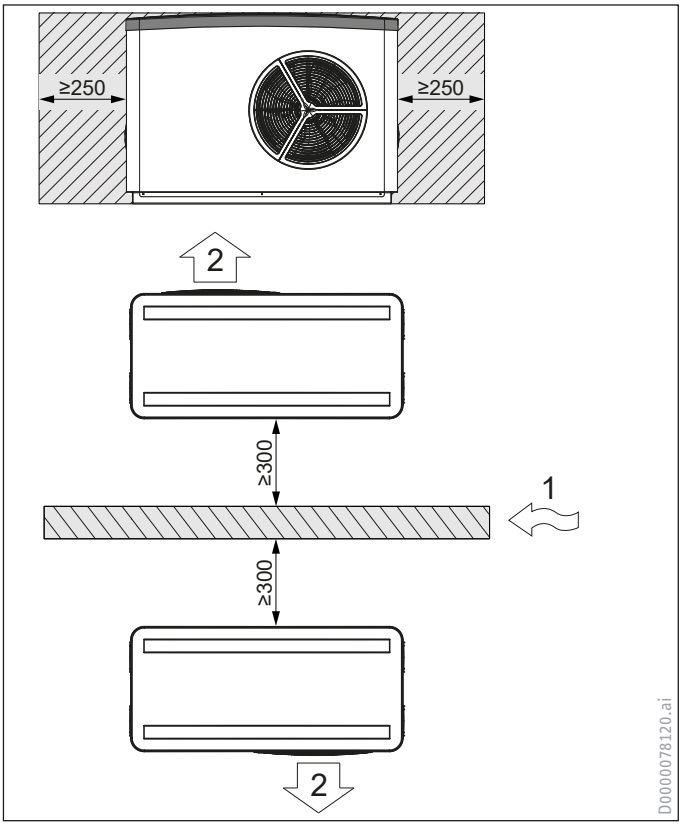


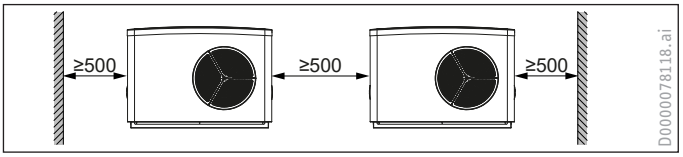
Installation conditions











HPA-O 05.1/07.1 CS Premium compact D Set 1

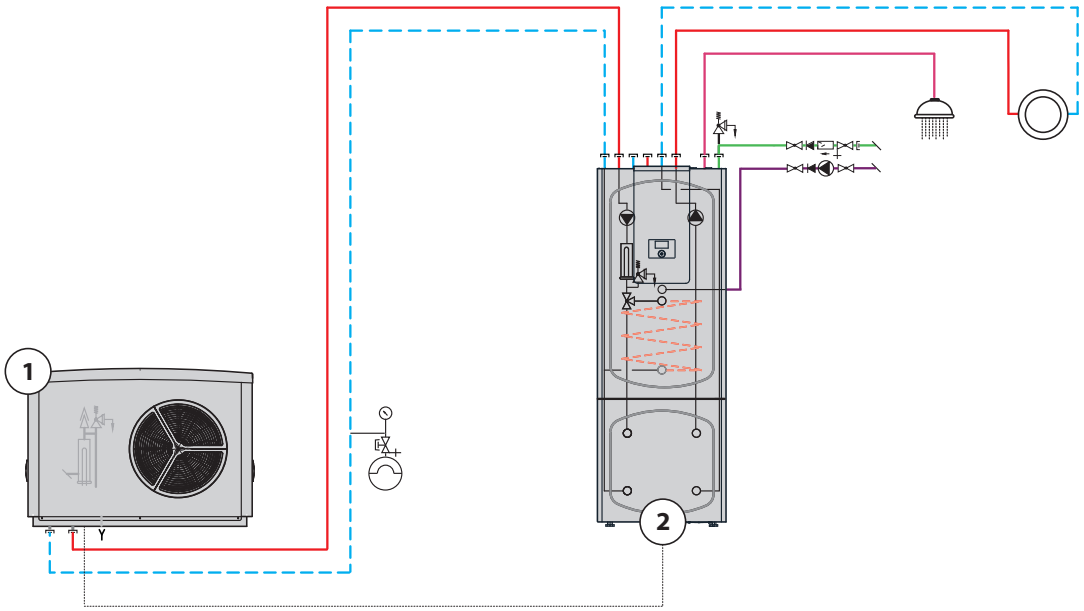
HPA-O 07.1 CS Premium compact D Set 1

Benefits

- Air source heat pump set for maximum efficiency in new build or modernisation
- Mono block heat pump, with its variable speed compressors, ensures perfectly matched heating output and high flow temperatures all year round
- DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing
- Thanks to flow separation, the heating system can be integrated easily and very safely

Application • Mono block heat pump with output-dependent control, with highly integrated indoor module for space saving and rapid installation. • Flow temperatures of up to 75 °C are available for room heating and DHW heating. • It can be used in a wide range of different heat distribution systems, as the heat pump is separated from the heat distribution system by means of an integral buffer cylinder. • The indoor module contains the following: DHW cylinder, cylinder charging pump, heating circuit pump, 3/2-way diverter valve, safety valve, electric emergency/auxiliary heater and the heat pump manager which is used to control the system.

		HPA-O 07.1 CS Premium compact D Set 1
Part number		**205289**



Set components		HPA-O 07.1 CS Premium compact D Set 1
1	Type	HPA-O 07.1 CS Premium
	Qty	1
		Air source heat pump
	Page	152
2	Type	HSBC 200
	Qty	1
		Integral cylinder
	Page	314

Further information about the Set components can be found under the respective product.

HPA-O 05.1/07.1 CS Premium compact D Set 2

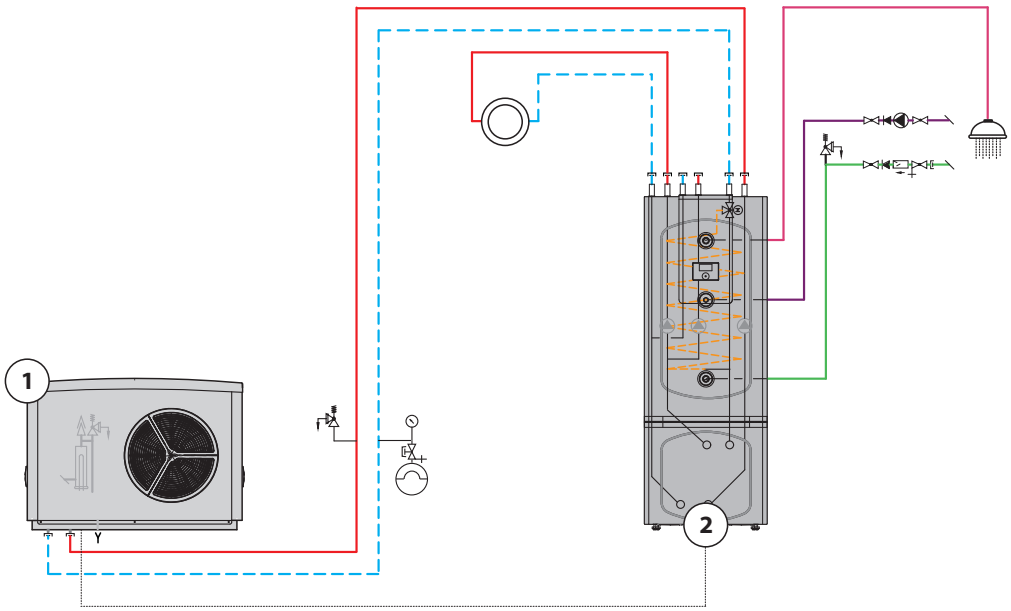
HPA-O 07.1 CS Premium compact D Set 2

Benefits

- The integral WPM heat pump manager makes the system easier to install
- Air source heat pump set for maximum efficiency in new build or modernisation
- Mono block heat pump, with its variable speed compressors, ensures perfectly matched heating output and high flow temperatures all year round
- DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing

Application • Mono block heat pump with output-dependent control, with highly integrated indoor module for space saving, rapid installation. • Flow temperatures of up to 75 °C are available for room heating and DHW heating. • High DHW convenience. • It can be used in a wide range of different heat distribution systems, as the heat pump is separated from the heat distribution system by means of an integral buffer cylinder. • The indoor module also contains the following: DHW cylinder, cylinder charging pump, heating circuit pump, 3/2-way diverter valve, electric emergency/auxiliary heater and the heat pump manager which is used to control the system.

		HPA-O 07.1 CS Premium compact D Set 2
Part number		**205294**



Set components		HPA-O 07.1 CS Premium compact D Set 2
1	Type	HPA-O 07.1 CS Premium
	Qty	1
		Air source heat pump
	Page	152
2	Type	HSBC 300 cool
	Qty	1
		Integral cylinder
	Page	312

Further information about the Set components can be found under the respective product.

HPA-O 10.1 / 13.1 C Premium

HPA-O 10.1 C Premium

Benefits

- The air source heat pump for heating and cooling is installed outdoors
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Even at low outside temperatures, the enhanced vapour injection/enhanced saturated vapour injection of the heat pump achieves a high flow temperature
- Can be integrated into the home network and operated via a smartphone
- Improved room climate in summer with active cooling using circuit reversal
- Low operating costs as mono mode DHW heating is possible
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- High efficiency and low operating costs all year round, thanks to optimally matched components
- Eco-friendly refrigerant thanks to low GWP value with high efficiency

Application • This air source heat pump with output-dependent control and inverter technology is installed outdoors. The compact mono block design is suitable for heating and DHW operation as well as for efficient cooling by means of circuit reversal. • The heat pump can be used in modernisation projects as flow temperatures of up to 65 °C are available for room heating and DHW heating.

Convenience features • Quiet operation thanks to the encapsulated refrigerant circuit and acoustically isolated compressor. Contributing to the low sound power level are the modulating fan and the wide gaps between the evaporator fins which reduce air resistance. • The combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures, which enables a higher heating output/flow temperature to be achieved. • When combined with the Internet Service Gateway, the integral heat pump manager allows the system to be controlled in the home network or from a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • The electric emergency/auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed and checked for leaks at the factory. • The enamelled, corrosion-protected metal casing is made from hot-dip galvanised, powder coated sheet steel. Fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic.

Efficiency • The refrigerant circuit works with the eco-friendly refrigerant R452B. • The waste heat from the inverter is used to raise the return temperature. In addition, the overall efficiency of the system is increased by on-demand defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit. • The hydrophilic coating on the fan nozzle prevents ice from forming, meaning that no electric heating is required.

Installation • The integral anti-vibration mount enables the heat pump to be connected directly to the heating system. • The pivoting electrical connection panel makes installation easier. • The condensate pan can be easily reached through the cleaning aperture on the back of the casing.

		HPA-O 10.1 C Premium	HPA-O 13.1 C Premium
Part number		**206367**	**206368**
Specification			
Energy efficiency class, heat pump W35		A++	A++
Energy efficiency class, heat pump W55		A++	A++
Heating output at A7/W35 (EN 14511)	kW	8.24	8.24
Heating output at A2/W35 (EN 14511)	kW	7.82	7.82
Heating output at A-7/W35 (EN 14511)	kW	9.90	12.34
COP at A7/W35 (EN 14511)		4.61	4.61
COP at A2/W35 (EN 14511)		3.82	3.82
COP at A-7/W35 (EN 14511)		3.36	3.00
Max. cooling capacity at A35/W7	kW	10.10	13.91
Cooling capacity at A35/W18 partial load	kW	8.74	8.74
Max. cooling capacity at A35/W18	kW	13.37	14.17
Energy efficiency ratio at A35/W7 max.		2.33	2.27

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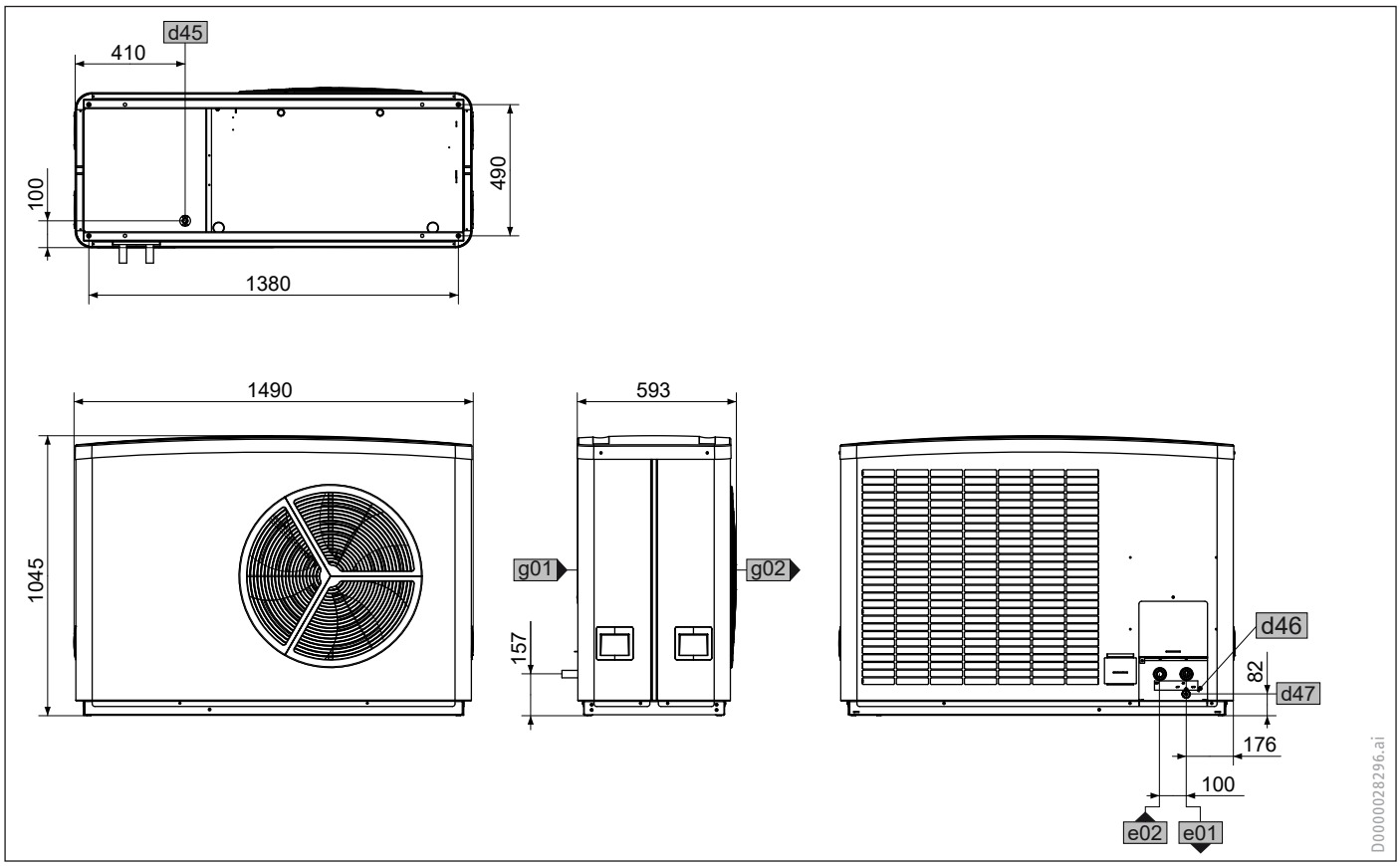
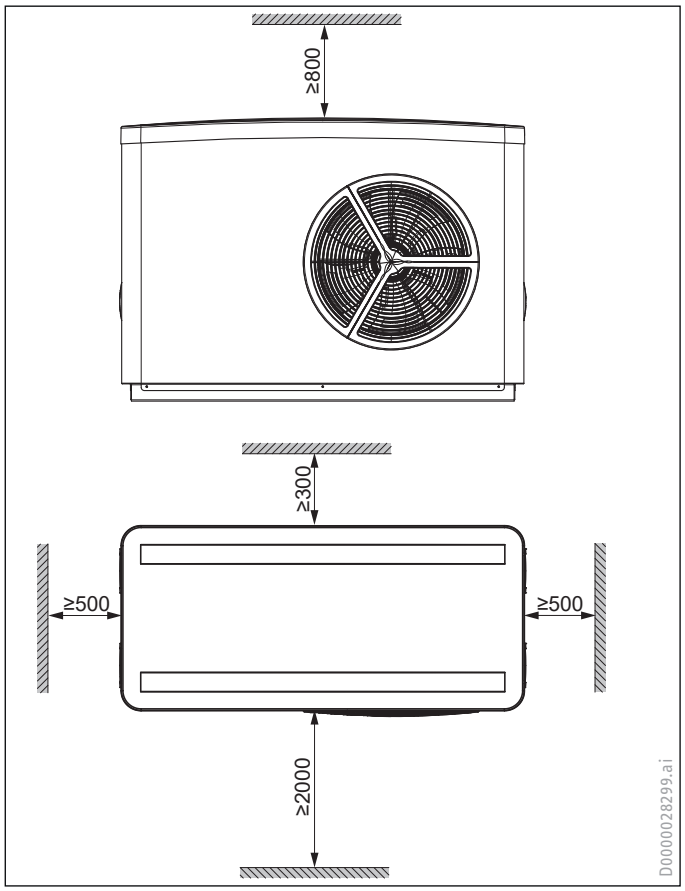
Inverter

		HPA-O 10.1 C Premium	HPA-O 13.1 C Premium
Energy efficiency ratio at A35/W18 partial load		3.46	3.46
Energy efficiency ratio at A35/W18 max.		2.75	2.93
SCOP 35 °C (EN 14825)		4.31	4.35
Sound power level (EN 12102)	dB(A)	55	55
Min./max. application limits for heat source	°C	-20/40	-20/40
Max. application limit on the heating side	°C	65	65
Height	mm	1045	1045
Width	mm	1490	1490
Depth	mm	593	593
Weight	kg	175	175
Rated voltage, compressor	V	400	400
Rated voltage, emergency/auxiliary heater	V	400	400
Refrigerant		R452B	R452B
Recommended accessories			
Part number		**229336**	
Type		ISG web	
Description		Internet Service Gateway	
Part number		**232805**	
Type		HM Trend	
Description		Hydraulic module	
Part number		**232964**	
Type		SK 1	
Description		T-support	
Part number		**233622**	
Type		AS-WP 1	
Description		Hydraulic connection set	
Part number		**233623**	
Type		AS-WP 2	
Description		Hydraulic connection set	
Part number		**234722**	
Type		WK 2	
Description		Wall mounting bracket	
DHW cylinder			
Part number		**203801**	
Type		HSBC 300 cool	
Description		Integral cylinder	
Part number		**221360**	
Type		SBB 301 WP	
Description		DHW cylinder	
Part number		**221361**	
Type		SBB 302 WP	
Description		DHW cylinder	
Part number		**229981**	
Type		SBS 801 W	
Description		Instantaneous water cylinder	
Part number		**233510**	
Type		HSBC 200	
Description		Integral cylinder	
Buffer cylinder			
Part number		**205296**	
Type		SBP 400 Plus cool	
Description		Buffer cylinder suitable for cooling operation	

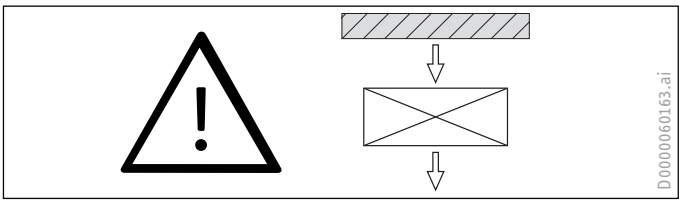


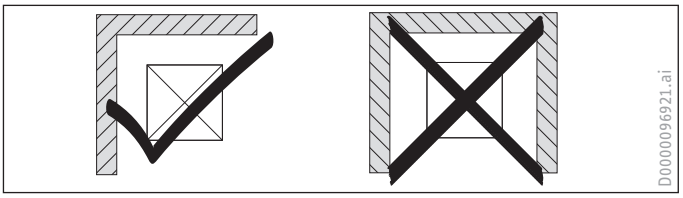
		HPA-O 10.1 C Premium	HPA-O 13.1 C Premium
d45 Condensate drain - diameter	mm	22	22
d47 Drain		•	•
e01 Heating flow - connection type		Plug-in connection	Plug-in connection
e01 Heating flow - diameter	mm	28	28
e02 Heating return - connection type		Plug-in connection	Plug-in connection
e02 Heating return - diameter	mm	28	28
g01 Air intake		•	•
g02 Air discharge		•	•

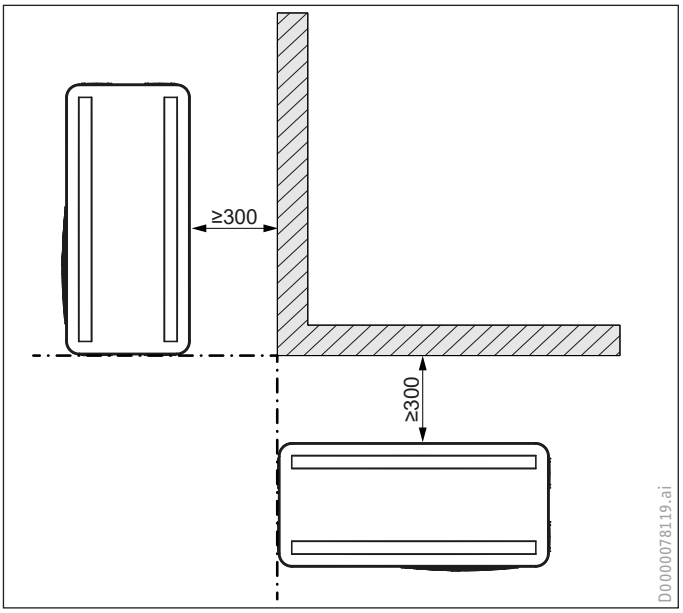
Minimum clearance diagram

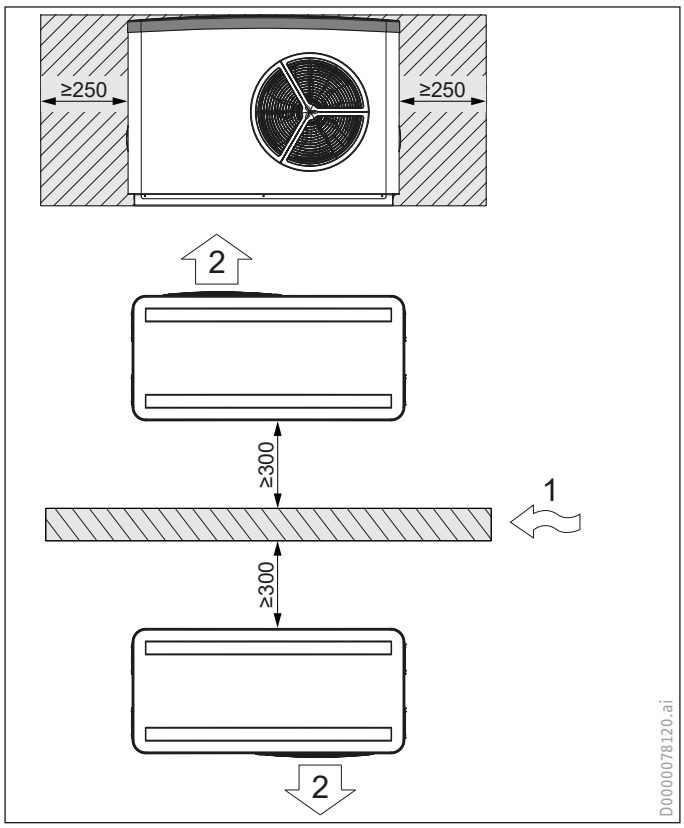


Installation conditions





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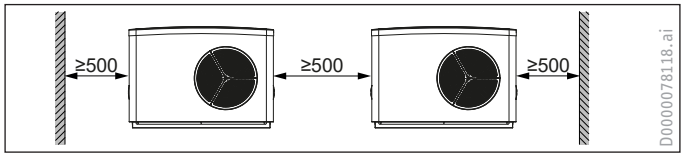
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HPA-O 10.1 / 13.1 Premium flex Set

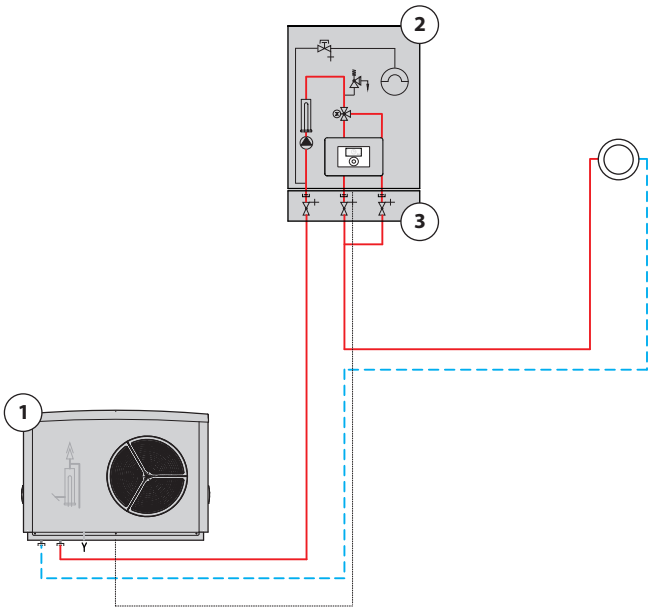
HPA-O 10.1 C Premium flex Set

Benefits

- Depending on the cylinder, also suitable for higher DHW demand
- Mono block heat pump, with its variable speed compressors, ensures perfectly matched heating output and high flow temperatures all year round
- Hydraulic module with all relevant heating components including heat pump manager for integrating the heat pump and cylinder
- Air source heat pump set for maximum efficiency in new build or modernisation
- Can be combined with any cylinder range

Application • Mono block heat pump with output-dependent control, in combination with a hydraulic module. • It can be used for modernisation projects, since flow temperatures of up to 65 °C are available all year round for room heating and DHW heating. • The possibility of combining with any DHW cylinder ensures that differing requirements with regard to hot water convenience can be met. The hydraulic connection is achieved by flexibly adding buffer cylinders. • The following components are integrated: a highly efficient circulation pump for the heating and DHW sides, electric emergency/auxiliary heater, diaphragm expansion vessel, safety valve, quick-action air vent valve, 3/2-way diverter valve and the heat pump manager for controlling the system.

		HPA-O 10.1 C Premium flex Set	HPA-O 13.1 C Premium flex Set
Part number		**206369**	**206370**



Set components		HPA-O 10.1 C Premium flex Set	HPA-O 13.1 C Premium flex Set
1	Type	HPA-O 10.1 C Premium	HPA-O 13.1 C Premium
	Qty	1	1
		Air source heat pump	Air source heat pump
	Page	159	159
2	Type	HM Trend	HM Trend
	Qty	1	1
		Hydraulic module	Hydraulic module
	Page	308	308
3	Type	AS-HM Trend	AS-HM Trend
	Qty	1	1
		Hydraulic module connection set	Hydraulic module connection set
	Page	310	310

Further information about the Set components can be found under the respective product.

HPA-O 7-13 Premium

HPA-O 10 Premium

Benefits

- The air source heat pump for heating is installed outdoors
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Even at low outside temperatures, the enhanced vapour injection/enhanced saturated vapour injection of the heat pump achieves a high flow temperature
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- High efficiency and low operating costs all year round, thanks to optimally matched components
- Low operating costs as mono mode DHW heating is possible
- Can be integrated into the home network and operated via a smartphone

Application • This air source heat pump with output-dependent control and inverter technology is installed outdoors. The compact mono block design is also suitable for use in modernised older buildings thanks to the demand-dependent high flow temperatures.

Convenience features • Very quiet operation thanks to encapsulated refrigerant circuit and acoustically isolated compressor. Contributing to the low sound power level are the modulating fan and the wide gaps between the evaporator fins which reduce air resistance. The combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures, which enables a higher heating output/flow temperature to be achieved. • When combined with the Internet Service Gateway, the integral heat pump manager controls the system in the home network or with a mobile device. With integral heat and electricity metering via refrigerant circuit data. • The electric emergency/auxiliary heater enables mono energetic operation. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A. • The enamelled, corrosion-protected metal casing is made from hot-dip galvanised, powder coated sheet steel. Fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic.

Efficiency • The waste heat from the inverter is used to raise the return temperature. In addition, the overall efficiency of the system is increased by on-demand defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit. • The hydrophilic coating on the fan nozzle prevents ice from forming, meaning that no electric heating is required.

Installation • Integral anti-vibration mounts for direct connection to the heating system. • The pivoting electrical connection panel makes installation easier. The condensate pan can be easily reached through the cleaning aperture on the back of the casing.

		HPA-O 10 Premium	HPA-O 13 Premium	HPA-O 13 S Premium
Part number		**238978**	**238982**	**238980**
Specification				
Energy efficiency class, heat pump W35		A+++	A+++	A++
Energy efficiency class, heat pump W55		A++	A++	A++
Heating output at A7/W35 (EN 14511)	kW	7.84	7.84	8.00
Heating output at A2/W35 (EN 14511)	kW	8.33	8.33	8.33
Heating output at A-7/W35 (EN 14511)	kW	9.54	12.86	12.86
COP at A7/W35 (EN 14511)		5.09	5.09	4.82
COP at A2/W35 (EN 14511)		4.14	4.14	4.14
COP at A-7/W35 (EN 14511)		3.26	2.93	2.98
SCOP 35 °C (EN 14825)		4.70	4.63	4.39
Sound power level (EN 12102)	dB(A)	55	55	55
Min./max. application limits for heat source	°C	-20 / 40	-20 / 40	-20 / 40
Max. application limit on the heating side	°C	65	65	65
Height	mm	1045	1045	1045
Width	mm	1490	1490	1490
Depth	mm	593	593	593

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		HPA-O 10 Premium	HPA-O 13 Premium	HPA-O 13 S Premium
Weight	kg	175	175	175
Rated voltage, compressor	V	400	400	230
Rated voltage, emergency/auxiliary heater	V	400	400	230
Refrigerant		R410A	R410A	R410A
Required accessories				
Part number		**236000**	**236000**	**236000**
Type		WPM international	WPM international	WPM international
Description		Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure
Recommended accessories				
Part number		**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**232805**	**232805**	**232805**
Type		HM Trend	HM Trend	HM Trend
Description		Hydraulic module	Hydraulic module	Hydraulic module
Part number		**232964**	**232964**	**232964**
Type		SK 1	SK 1	SK 1
Description		T-support	T-support	T-support
Part number		**233622**	**233622**	**233622**
Type		AS-WP 1	AS-WP 1	AS-WP 1
Description		Hydraulic connection set	Hydraulic connection set	Hydraulic connection set
Part number		**233623**	**233623**	**233623**
Type		AS-WP 2	AS-WP 2	AS-WP 2
Description		Hydraulic connection set	Hydraulic connection set	Hydraulic connection set
Part number		**233826**	**233826**	**233826**
Type		HMS Trend	HMS Trend	HMS Trend
Description		Hydraulic module	Hydraulic module	Hydraulic module
Part number		**234722**	**234722**	**234722**
Type		WK 2	WK 2	WK 2
Description		Wall mounting bracket	Wall mounting bracket	Wall mounting bracket
DHW cylinder				
Part number		**203801**	**203801**	**203801**
Type		HSBC 300 cool	HSBC 300 cool	HSBC 300 cool
Description		Integral cylinder	Integral cylinder	Integral cylinder
Part number		**221360**	**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder	DHW cylinder
Part number		**221361**	**221361**	**221361**
Type		SBB 302 WP	SBB 302 WP	SBB 302 WP
Description		DHW cylinder	DHW cylinder	DHW cylinder
Part number		**229981**	**229981**	**229981**
Type		SBS 801 W	SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Part number		**233510**	**233510**	**233510**
Type		HSBC 200	HSBC 200	HSBC 200
Description		Integral cylinder	Integral cylinder	Integral cylinder
Part number		**234801**	**234801**	**234801**
Type		HSBC 200 S	HSBC 200 S	HSBC 200 S
Description		Integral cylinder	Integral cylinder	Integral cylinder

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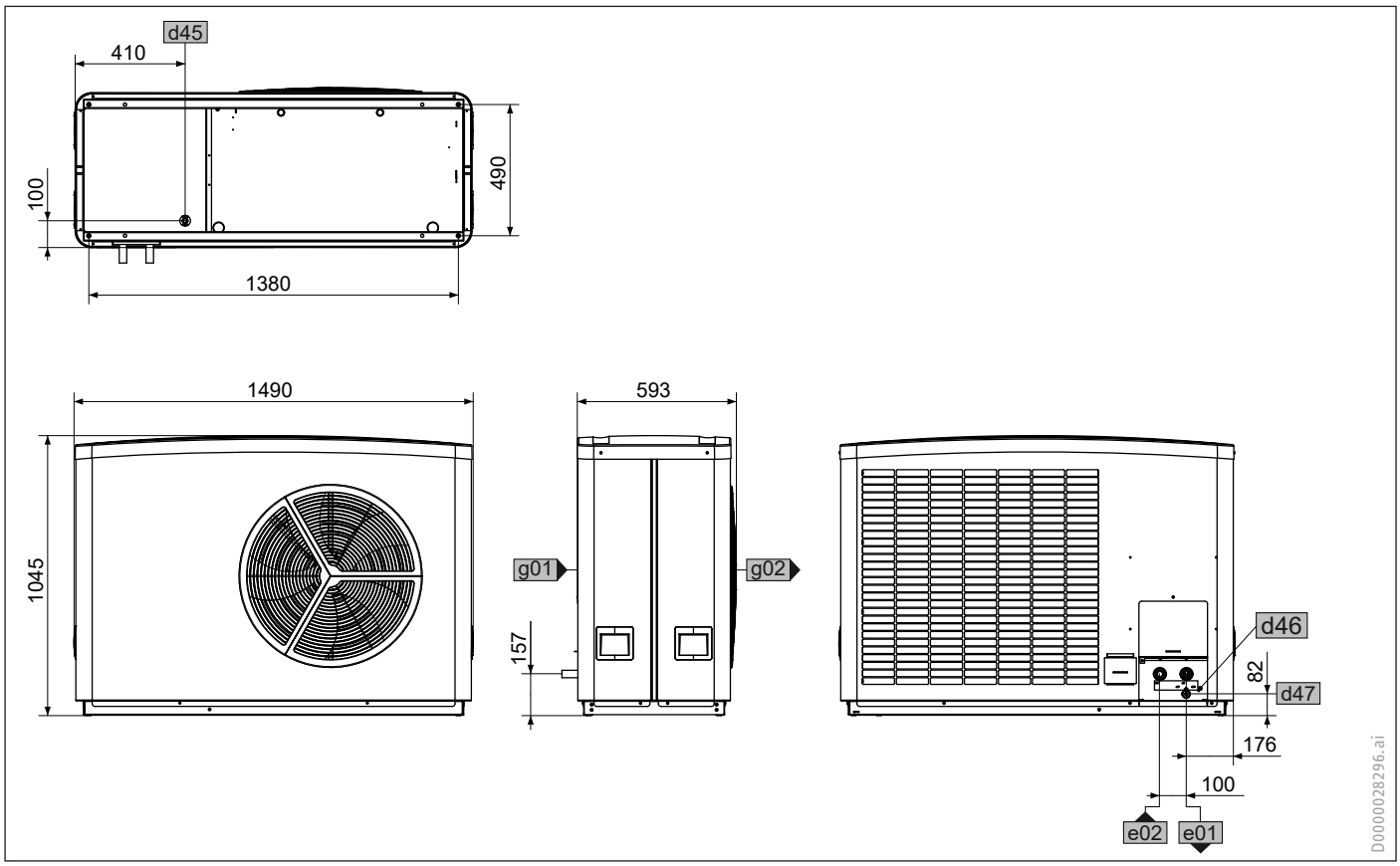
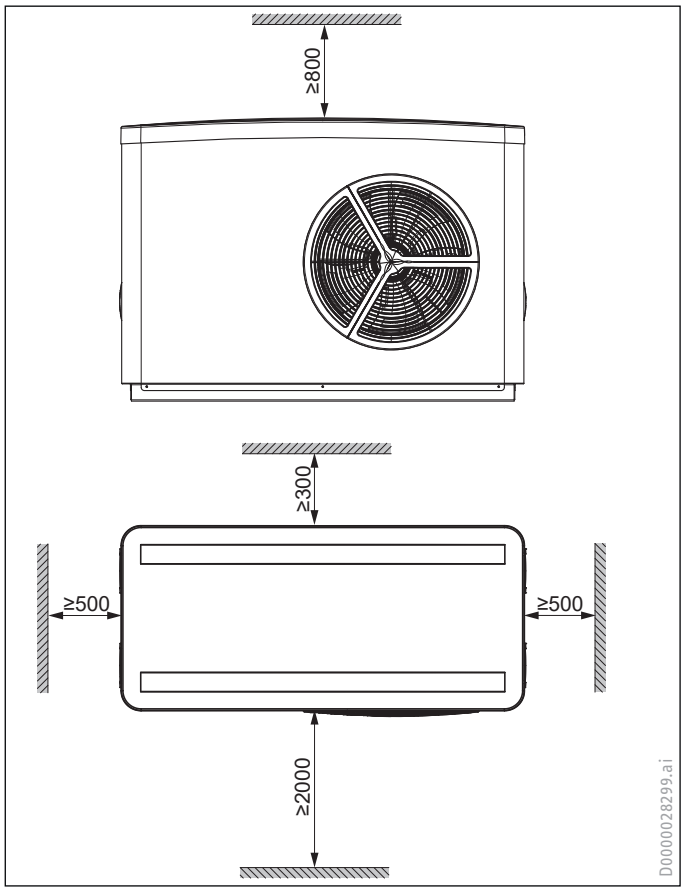
		HPA-O 10 Premium	HPA-O 13 Premium	HPA-O 13 S Premium
Buffer cylinder				
Part number		**205296**	**205296**	**205296**
Type		SBP 400 Plus cool	SBP 400 Plus cool	SBP 400 Plus cool
Description		Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation



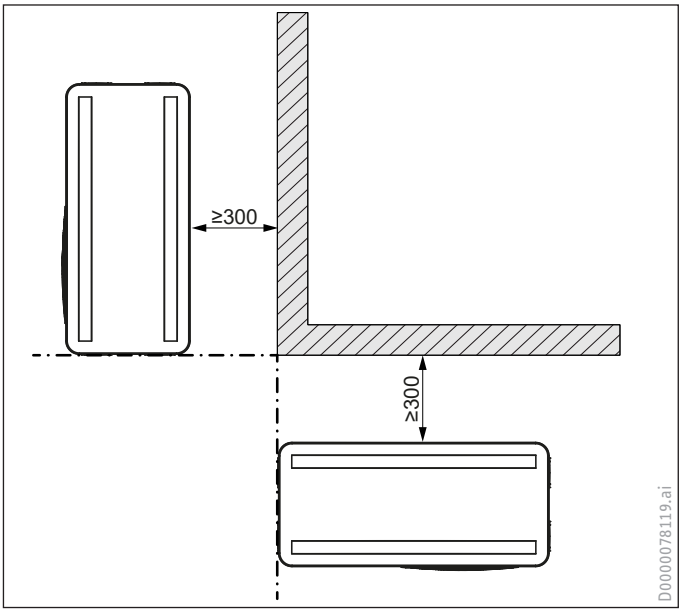
		HPA-O 10 Premium	HPA-O 13 Premium	HPA-O 13 S Premium
d45 Condensate drain - diameter	mm	22	22	22
d47 Drain		•	•	•
e01 Heating flow - connection type		Plug-in connection	Plug-in connection	Plug-in connection
e01 Heating flow - diameter	mm	28	28	28
e02 Heating return - connection type		Plug-in connection	Plug-in connection	Plug-in connection
e02 Heating return - diameter	mm	28	28	28
g01 Air intake		•	•	•
g02 Air discharge		•	•	•

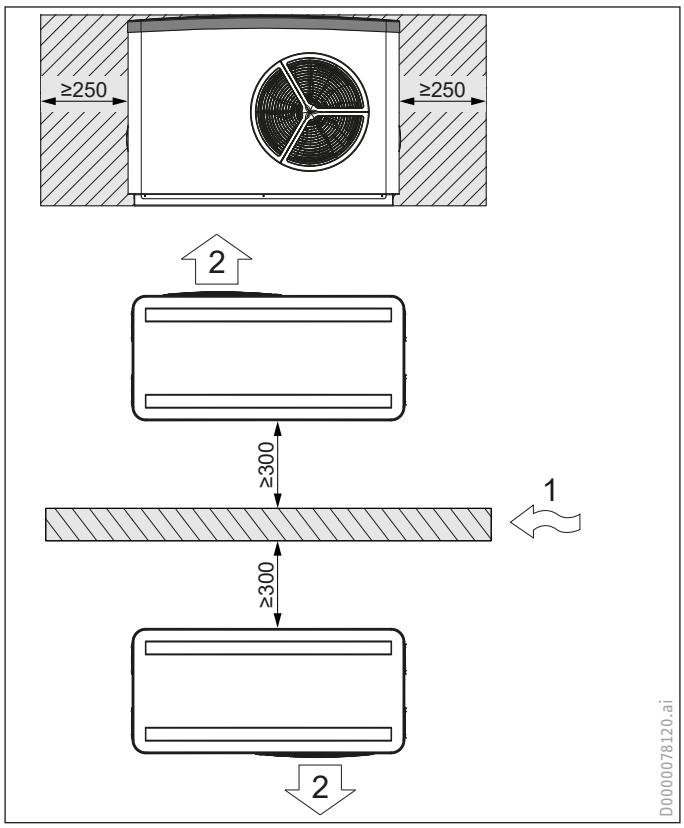
Inverter

Minimum clearance diagram



Installation conditions

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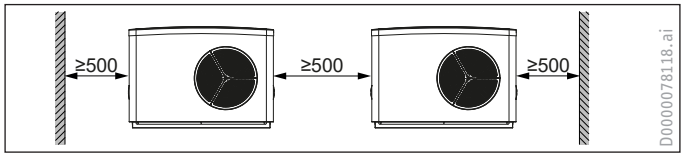
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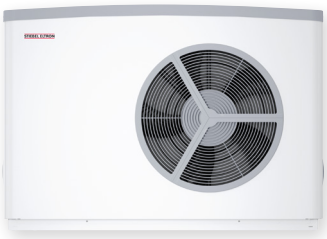
HPA-O 7-13 C Premium



Benefits
- The air source heat pump for heating and cooling is installed outdoors
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Even at low outside temperatures, the enhanced vapour injection/enhanced saturated vapour injection of the heat pump achieves a high flow temperature
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- Improved room climate in summer with active cooling using circuit reversal
- High efficiency and low operating costs all year round, thanks to optimally matched components
- Low operating costs as mono mode DHW heating is possible
- Can be integrated into the home network and operated via a smartphone

HPA-O 10 C Premium

Application • This air source heat pump with output-dependent control and inverter technology is designed as a compact mono block appliance for outdoor installation. • It delivers the required heating output, ensures a reliable supply of DHW and can be used for efficient cooling through circuit reversal. • Its high flow temperatures mean that it can be used for heating and DHW in new and modernised buildings.

Convenience features • Quiet operation is ensured by the encapsulated refrigerant circuit and acoustically isolated compressor. Contributing to the low sound power level are the modulating fan and the wide gaps between the evaporator fins, which reduce air resistance. • The combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures and ensures that the maximum flow temperature is achieved all year round. • The system can be incorporated into a smart home network and controlled via a mobile device if the on-site heat pump controller is combined with the Internet Service Gateway. • With integral heat and electricity metering via refrigerant circuit data. • The electric emergency/auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with eco-friendly, futureproof refrigerant R410A. • The corrosion-protected metal casing is made from hot-dip galvanised, powder coated sheet steel. • Fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic.

Efficiency • The waste heat from the inverter is used to raise the temperature in the return. This increases the energy efficiency of the overall system. This is further aided by on-demand defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit. • Demand-dependent, energy efficient defrosting through circuit reversal.

Installation • The integral anti-vibration mount enables the heat pump to be connected directly to the heating system. • The pivoting electrical connection panel makes installation easier. • The condensate pan can be easily reached through a cleaning aperture on the back of the casing.

		HPA-O 10 C Premium	HPA-O 13 CS Premium	HPA-O 13 C Premium
Part number		**238979**	**238981**	**238983**
Specification				
Energy efficiency class, heat pump W35		A+++	A+++	A+++
Energy efficiency class, heat pump W55		A++	A++	A++
Heating output at A7/W35 (EN 14511)	kW	7.84	8.00	7.84
Heating output at A2/W35 (EN 14511)	kW	8.33	8.33	8.33
Heating output at A-7/W35 (EN 14511)	kW	9.54	12.86	12.86
COP at A7/W35 (EN 14511)		5.09	4.82	5.09
COP at A2/W35 (EN 14511)		4.14	4.14	4.14
COP at A-7/W35 (EN 14511)		3.26	2.98	2.93
Max. cooling capacity at A35/W7	kW	11.49	14.88	14.88
Cooling capacity at A35/W18 partial load	kW	6.76	6.76	6.76
Max. cooling capacity at A35/W18	kW	15.26	17.06	17.06
Energy efficiency ratio at A35/W7 max.		2.53	2.38	2.38

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		HPA-O 10 C Premium	HPA-O 13 CS Premium	HPA-O 13 C Premium
Energy efficiency ratio at A35/W18 partial load		3.76	3.76	3.76
Energy efficiency ratio at A35/W18 max.		3.12	2.83	2.83
SCOP 35 °C (EN 14825)		4.87	4.53	4.76
Sound power level (EN 12102)	dB(A)	55	55	55
Min./max. application limits for heat source	°C	-20 / 40	-20 / 40	-20 / 40
Max. application limit on the heating side	°C	65	65	65
Height	mm	1045	1045	1045
Width	mm	1490	1490	1490
Depth	mm	593	593	593
Weight	kg	175	175	175
Rated voltage, compressor	V	400	230	400
Rated voltage, emergency/auxiliary heater	V	400	230	400
Refrigerant		R410A	R410A	R410A
Required accessories				
Part number		**236000**	**236000**	**236000**
Type		WPM international	WPM international	WPM international
Description		Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure
Recommended accessories				
Part number		**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**232805**	**232805**	**232805**
Type		HM Trend	HM Trend	HM Trend
Description		Hydraulic module	Hydraulic module	Hydraulic module
Part number		**232964**	**232964**	**232964**
Type		SK 1	SK 1	SK 1
Description		T-support	T-support	T-support
Part number		**233622**	**233622**	**233622**
Type		AS-WP 1	AS-WP 1	AS-WP 1
Description		Hydraulic connection set	Hydraulic connection set	Hydraulic connection set
Part number		**233623**	**233623**	**233623**
Type		AS-WP 2	AS-WP 2	AS-WP 2
Description		Hydraulic connection set	Hydraulic connection set	Hydraulic connection set
Part number		**233826**	**233826**	**233826**
Type		HMS Trend	HMS Trend	HMS Trend
Description		Hydraulic module	Hydraulic module	Hydraulic module
Part number		**234722**	**234722**	**234722**
Type		WK 2	WK 2	WK 2
Description		Wall mounting bracket	Wall mounting bracket	Wall mounting bracket
DHW cylinder				
Part number		**203801**	**203801**	**203801**
Type		HSBC 300 cool	HSBC 300 cool	HSBC 300 cool
Description		Integral cylinder	Integral cylinder	Integral cylinder
Part number		**221360**	**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder	DHW cylinder
Part number		**221361**	**221361**	**221361**
Type		SBB 302 WP	SBB 302 WP	SBB 302 WP
Description		DHW cylinder	DHW cylinder	DHW cylinder

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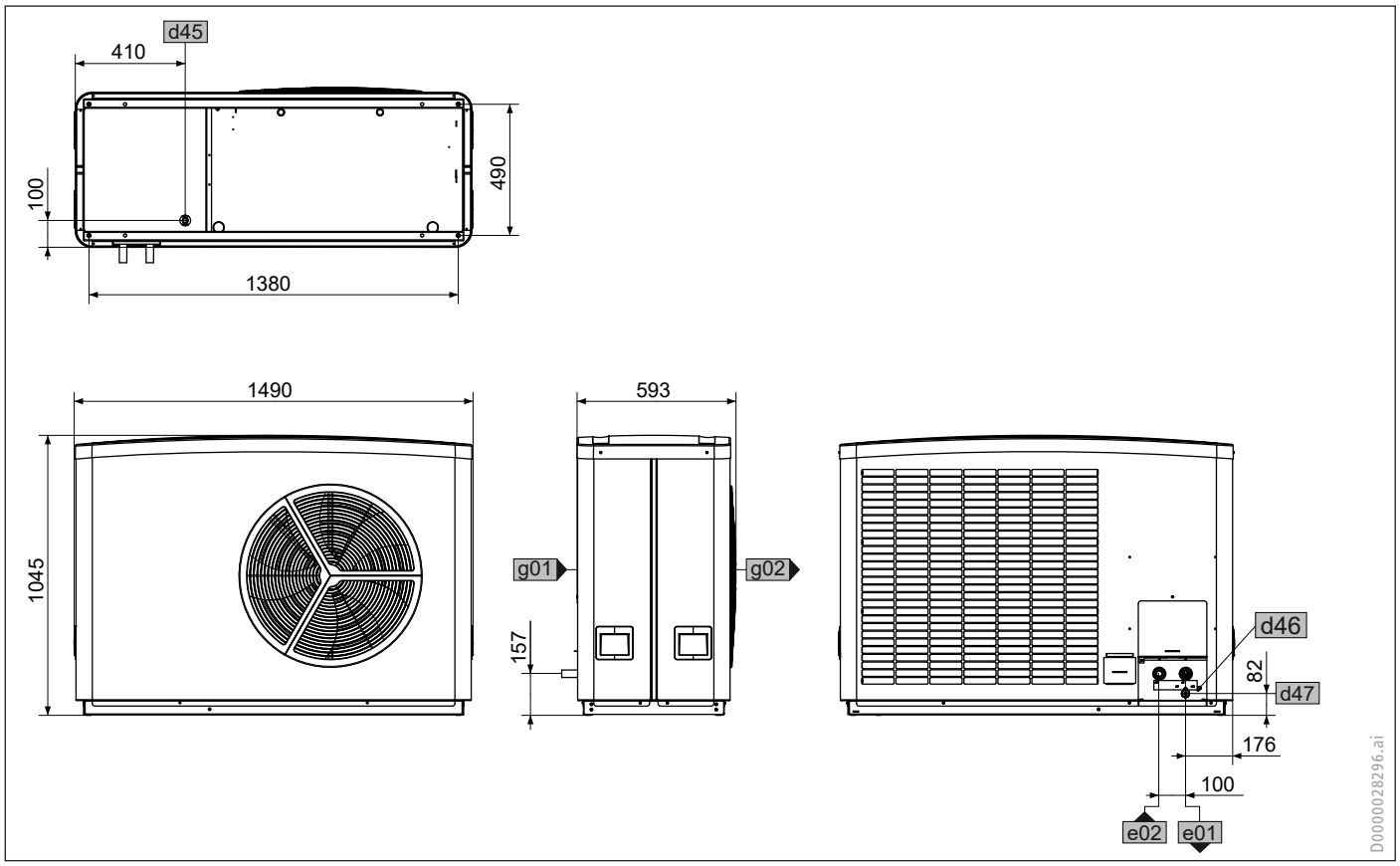
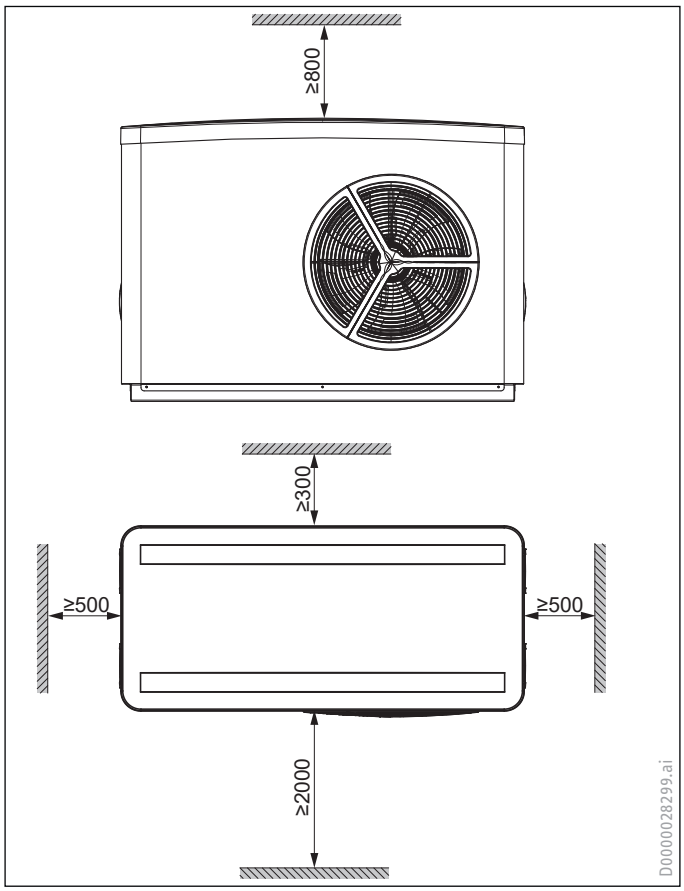
		HPA-O 10 C Premium	HPA-O 13 CS Premium	HPA-O 13 C Premium
Part number		**229981**	**229981**	**229981**
Type		SBS 801 W	SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Part number		**233510**	**233510**	**233510**
Type		HSBC 200	HSBC 200	HSBC 200
Description		Integral cylinder	Integral cylinder	Integral cylinder
Part number		**234801**	**234801**	**234801**
Type		HSBC 200 S	HSBC 200 S	HSBC 200 S
Description		Integral cylinder	Integral cylinder	Integral cylinder
Buffer cylinder				
Part number		**205296**	**205296**	**205296**
Type		SBP 400 Plus cool	SBP 400 Plus cool	SBP 400 Plus cool
Description		Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation

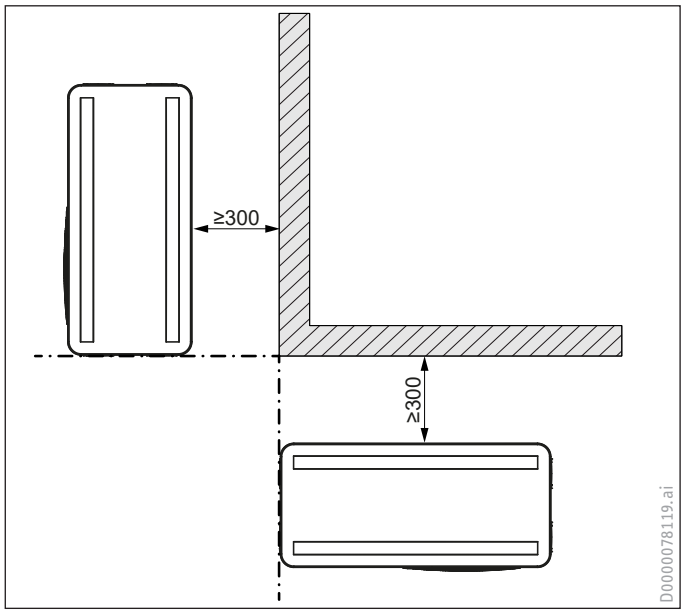


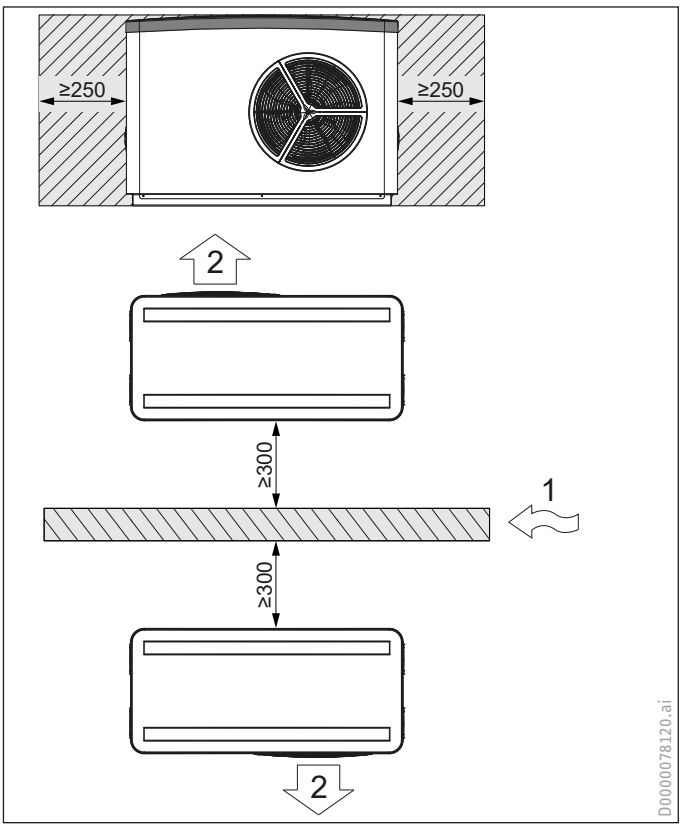
		HPA-O 10 C Premium	HPA-O 13 CS Premium	HPA-O 13 C Premium
d45 Condensate drain - diameter	mm	22	22	22
d47 Drain		•	•	•
e01 Heating flow - connection type		Plug-in connection	Plug-in connection	Plug-in connection
e01 Heating flow - diameter	mm	28	28	28
e02 Heating return - connection type		Plug-in connection	Plug-in connection	Plug-in connection
e02 Heating return - diameter	mm	28	28	28
g01 Air intake		•	•	•
g02 Air discharge		•	•	•

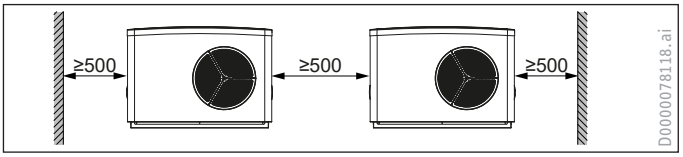
Minimum clearance diagram



Installation conditions







HPA-O 10/13 C Premium compact D Set 1

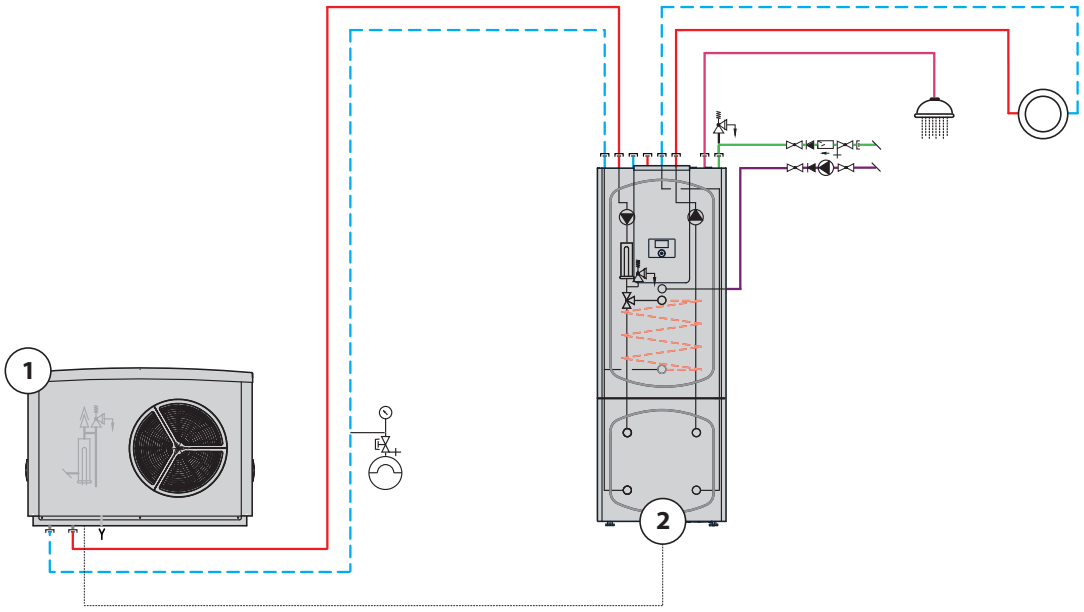
HPA-O 13 C Premium compact D Set 1

Benefits

- Air source heat pump set for maximum efficiency in new build or modernisation
- Mono block heat pump, with its variable speed compressors, ensures perfectly matched heating output and high flow temperatures all year round
- DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing
- Thanks to flow separation, the heating system can be integrated easily and very safely

Application • Mono block heat pump with output-dependent control, with highly integrated indoor module for space saving, rapid installation. • It can be used for modernisation, since it provides a flow temperature of up to 65 °C all year round for heating operation and DHW heating. • It can be used in a wide range of different heat distribution systems, as the heat pump is separated from the heat distribution system by means of an integral buffer cylinder. • The indoor module also contains the following: DHW cylinder, cylinder charging pump, heating circuit pump, 3/2-way diverter valve, safety valve, electric emergency/auxiliary heater and the heat pump manager, which is used to control the system.

		HPA-O 13 C Premium compact D Set 1
Part number		**205290**



Set components		HPA-O 13 C Premium compact D Set 1
1	Type	HPA-O 13 C Premium
	Qty	1
		Air source heat pump
	Page	170
2	Type	HSBC 200
	Qty	1
		Integral cylinder
	Page	314

More details regarding the Set components can be found under the relevant product

HPA-O 10/13 C Premium compact D Set 2

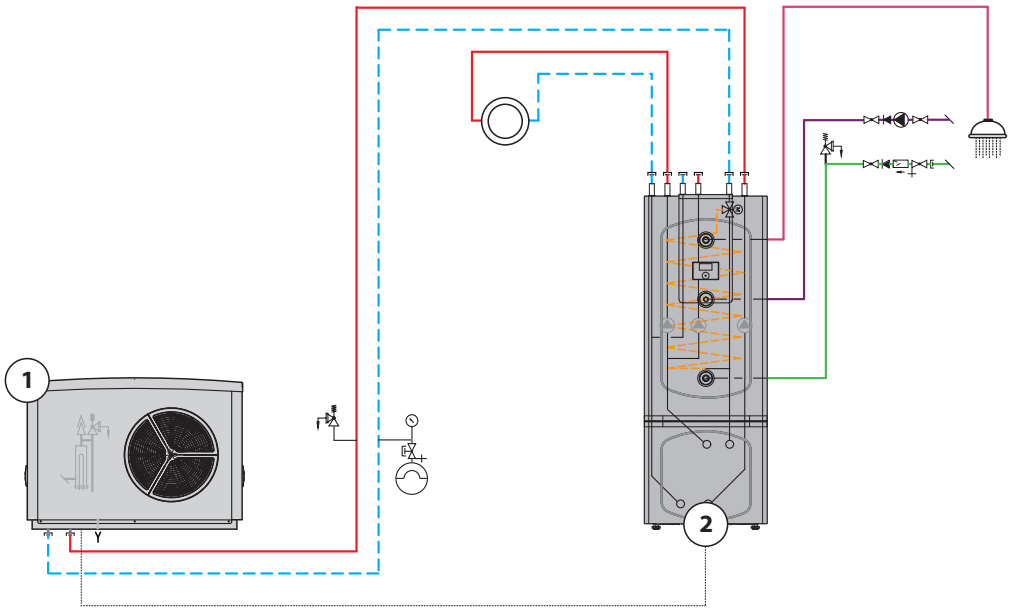
HPA-O 13 C Premium compact D Set 2

Benefits

- Air source heat pump set for maximum efficiency in new build or modernisation
- Large DHW cylinder and buffer cylinder with integral hydraulic components for heat pumps and heating circuit connection in a single casing
- The integral WPM heat pump manager makes the system easier to install
- Mono block heat pump, with its variable speed compressors, ensures perfectly matched heating output and high flow temperatures all year round

Application • Mono block heat pump with output-dependent control, with highly integrated indoor module for space saving and rapid installation. It can be used for renovation projects as flow temperatures of up to 65 °C are available all year round for heating and DHW heating. • High DHW convenience. • It can be used in a wide range of different heat distribution systems, as the heat pump is separated from the heat distribution system by means of an integral buffer cylinder. • The indoor module also contains the following: DHW cylinder, cylinder charging pump, heating circuit pump, 3/2-way diverter valve, electric emergency/auxiliary heater, and the heat pump manager which is used to control the system

		HPA-O 13 C Premium compact D Set 2
Part number		**205291**



Set components		HPA-O 13 C Premium compact D Set 2
1	Type	HPA-O 13 C Premium
	Qty	1
		Air source heat pump
	Page	170
2	Type	HSBC 300 cool
	Qty	1
		Integral cylinder
	Page	312

Further information about the Set components can be found under the respective product

HPA-O 3-8 Plus

HPA-O 3 CS Plus

Benefits

- The air source heat pump for heating and cooling new-builds is installed outdoors
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Reduced space requirement in installation room thanks to compact outdoor unit combined with various indoor modules
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- Freezing up of the compressor and blocking of the condensate drain are prevented by means of an „anti-block condensate“ (ABC design)
- Can be integrated into the home network and operated via a smartphone
- High hot water convenience with large mixed water amount due to high flow temperature
- Straightforward hydraulic connection due to integral anti-vibration mounts
- The air source heat pump is ideally suited to new builds

Application • This air source heat pump with output-dependent control and inverter technology is designed as a compact mono block appliance for outdoor installation. • The heat pump can be used in new build and buildings with a low system temperature for heating and DHW operation as well as for efficient cooling. • To ensure simple and space saving installation in the building, the heat pump is supplied in a set with compact and ideally matched indoor units.

Convenience features • Quiet operation thanks to the encapsulated refrigerant circuit and acoustically isolated compressor. With integral heat and electricity metering via refrigerant circuit data.

Efficiency • The waste heat from the inverter raises the return temperature which, together with demand-dependent defrosting by circuit reversal, significantly increases the overall efficiency of the system.

Installation • Thanks to the integral anti-vibration mounts, the heat pump can be connected directly to the heating system. Extensive accessories are available for both floor or wall mounted installations. This ensures that any condensate can drip off easily. • The electrical connection panel is easy to access, without having to open the unit.

		HPA-O 3 CS Plus	HPA-O 4 CS Plus	HPA-O 6 CS Plus	HPA-O 8 CS Plus
Part number					
Specification					
Energy efficiency class, heat pump W35		A++	A++	A+++	A+++
Energy efficiency class, heat pump W55		A+	A+	A++	A++
Heating output at A7/W35 (EN 14511)	kW	2.73	2.73	4.86	4.86
Heating output at A2/W35 (EN 14511)	kW	2.08	2.58	5.30	5.30
Heating output at A-7/W35 (EN 14511)	kW	3.20	3.96	6.00	7.80
COP at A7/W35 (EN 14511)		4.70	4.70	4.76	4.76
COP at A2/W35 (EN 14511)		3.70	3.64	3.80	3.80
COP at A-7/W35 (EN 14511)		2.81	2.73	2.98	2.91
Max. cooling capacity at A35/W7	kW	2.00	3.00	5.00	6.00
Cooling capacity at A35/W18 partial load	kW	1.50	1.50	2.50	3.00
Max. cooling capacity at A35/W18	kW	2.00	3.00	5.00	6.00
Energy efficiency ratio at A35/W7 max.		2.15	1.62	1.73	1.73
Energy efficiency ratio at A35/W18 partial load		3.56	3.56	3.28	3.28
Energy efficiency ratio at A35/W18 max.		3.12	3.12	2.88	2.88
SCOP 35 °C (EN 14825)		4.23	4.15	4.50	4.50

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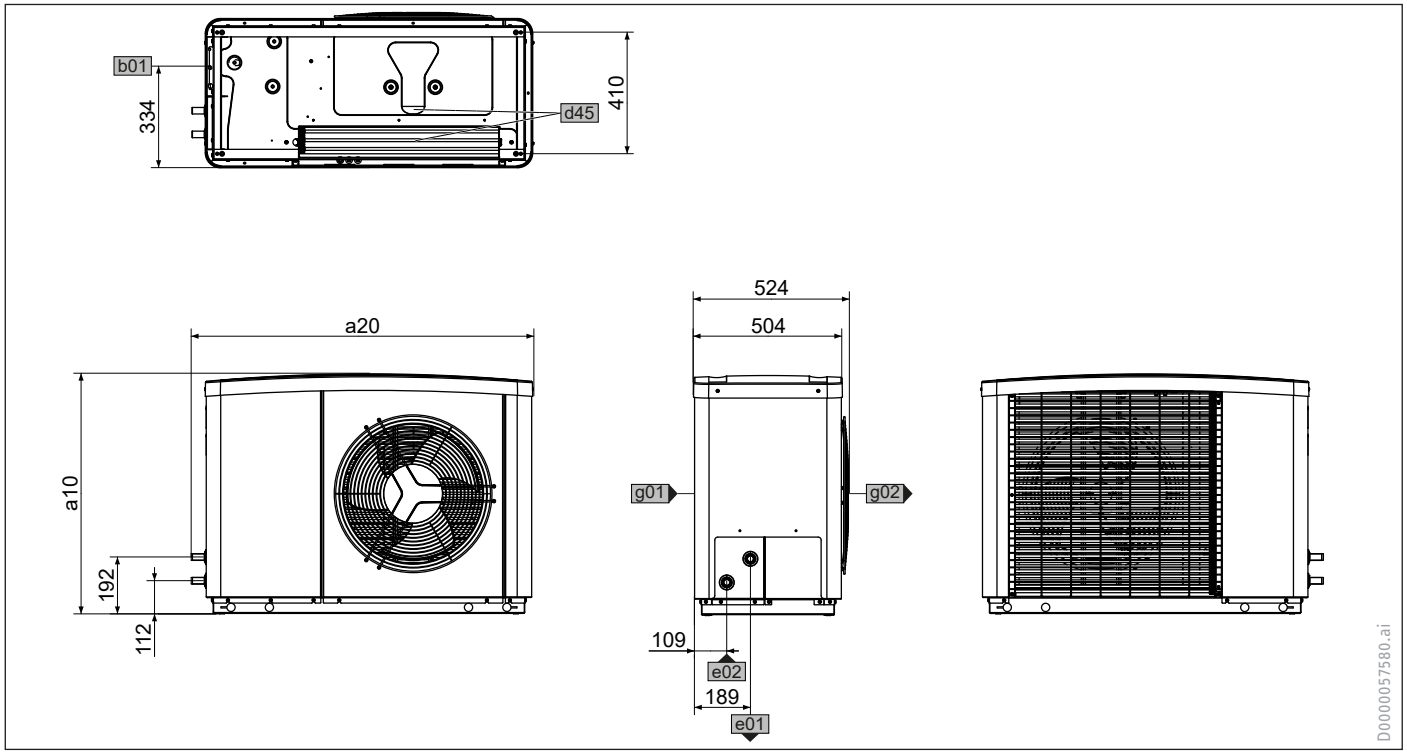
		HPA-O 3 CS Plus	HPA-O 4 CS Plus	HPA-O 6 CS Plus	HPA-O 8 CS Plus
Sound power level (EN 12102)	dB(A)	52	52	57	57
Min./max. application limits for heat source	°C	-20...40	-20...40	-20...40	-20...40
Max. application limit on the heating side	°C	60	60	60	60
Height	mm	740	740	812	812
Width	mm	1022	1022	1152	1152
Depth	mm	524	524	524	524
Weight	kg	62	62	91	91
Rated voltage, compressor	V	230	230	230	230
Refrigerant		R410A	R410A	R410A	R410A
Recommended accessories					
Part number		**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**236693**	**236693**	**236693**	**236693**
Type		SK 2	SK 2	SK 2	SK 2
Description		T-support	T-support	T-support	T-support
Part number		**238686**	**238686**	**238686**	**238686**
Type		WK 1.1	WK 1.1	WK 1.1	WK 1.1
Description		Wall mounting bracket	Wall mounting bracket	Wall mounting bracket	Wall mounting bracket

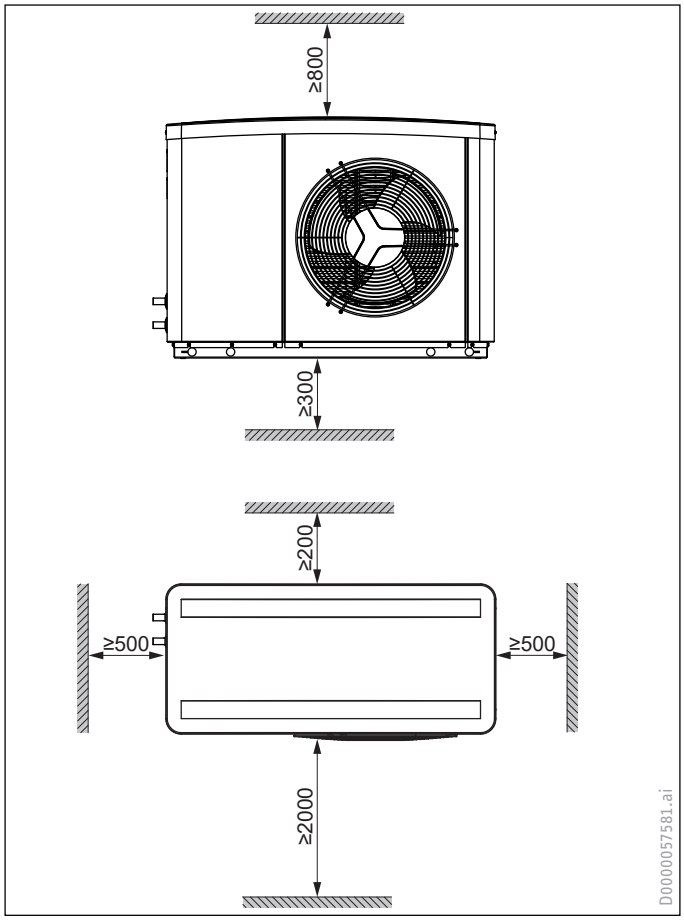
Only available in the set.

The necessary T-support or wall mounting bracket is available as an accessory



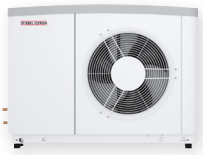
		HPA-O 3 CS Plus	HPA-O 4 CS Plus	HPA-O 6 CS Plus	HPA-O 8 CS Plus
a10 Appliance - height	mm	740	740	812	812
a20 Appliance - width	mm	1,022	1,022	1,152	1,152
b01 Entry electrical cables		•	•	•	•
d45 Condensate drain		•	•	•	•
e01 Heating flow - diameter	mm	22	22	22	22
e02 Heating return - diameter	mm	22	22	22	22
g01 Air intake		•	•	•	•
g02 Air discharge		•	•	•	•

Minimum clearance diagram



HPA-O CS Plus flex Set

Benefits
- The air source heat pump is ideally suited to new builds
- Depending on the cylinder, also suitable for higher DHW demand
- Can be combined with any cylinder range
- The mono block heat pump is installed outdoors and its variable speed compressor ensures perfectly matched heating output
- Hydraulic module with all relevant heating components including heat pump manager for integrating the heat pump and cylinder

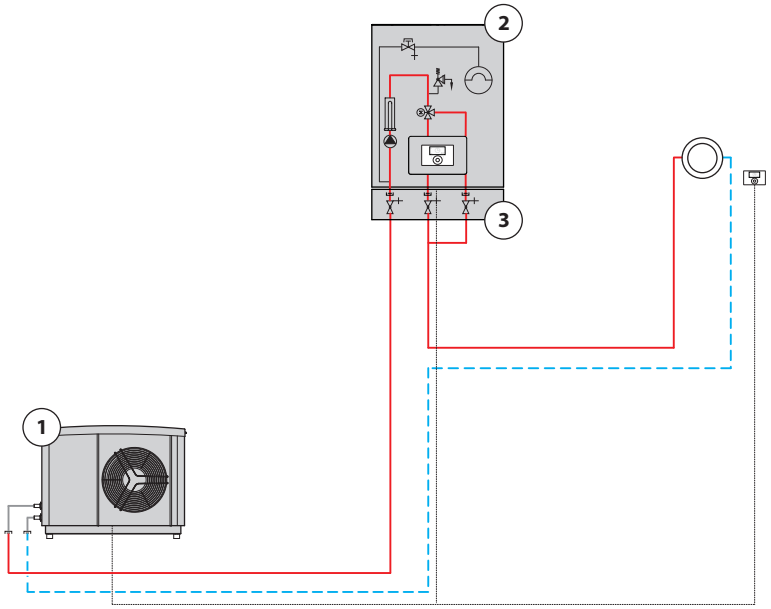


HPA-O 3 CS Plus flex Set

Application • Mono block heat pump with output-dependent control, in combination with a hydraulic module. • This configuration makes it possible to meet different hot water convenience requirements through free combination with DHW cylinders. • The hydraulic connection can be achieved by flexibly adding buffer cylinders. • The following components are already integrated: a highly efficient circulation pump for the heating and DHW sides, electric emergency/auxiliary heater, heating expansion vessel, safety valve, quick-action air vent valve, 3/2-way diverter valve and the heat pump manager for controlling the system.

		HPA-O 3 CS Plus flex Set	HPA-O 3 CS Plus flex Set S	HPA-O 4 CS Plus flex Set	HPA-O 4 CS Plus flex Set S
Part number		**239051**	**238988**	**239052**	**238989**

		HPA-O 6 CS Plus flex Set	HPA-O 6 CS Plus flex Set S	HPA-O 8 CS Plus flex Set	HPA-O 8 CS Plus flex Set S
Part number		**239053**	**238990**	**239054**	**238991**



Set components		HPA-O 3 CS Plus flex Set	HPA-O 3 CS Plus flex Set S	HPA-O 4 CS Plus flex Set	HPA-O 4 CS Plus flex Set S
1	Type	HPA-O 3 CS Plus	HPA-O 3 CS Plus	HPA-O 4 CS Plus	HPA-O 4 CS Plus
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	177	177	177	177
2	Type	HM Trend	HMS Trend	HM Trend	HMS Trend
	Qty	1	1	1	1
		Hydraulic module	Hydraulic module	Hydraulic module	Hydraulic module
	Page	308	308	308	308
3	Type	AS-HM Trend	AS-HM Trend	AS-HM Trend	AS-HM Trend
	Qty	1	1	1	1
		Hydraulic module connection set	Hydraulic module connection set	Hydraulic module connection set	Hydraulic module connection set
	Page	310	310	310	310

next page >

Set components		HPA-O 6 CS Plus flex Set	HPA-O 6 CS Plus flex Set S	HPA-O 8 CS Plus flex Set	HPA-O 8 CS Plus flex Set S
1	Type	HPA-O 6 CS Plus	HPA-O 6 CS Plus	HPA-O 8 CS Plus	HPA-O 8 CS Plus
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	177	177	177	177
2	Type	HM Trend	HMS Trend	HM Trend	HMS Trend
	Qty	1	1	1	1
		Hydraulic module	Hydraulic module	Hydraulic module	Hydraulic module
	Page	308	308	308	308
3	Type	AS-HM Trend	AS-HM Trend	AS-HM Trend	AS-HM Trend
	Qty	1	1	1	1
		Hydraulic module connection set	Hydraulic module connection set	Hydraulic module connection set	Hydraulic module connection set
	Page	310	310	310	310

Further information about the Set components can be found under the respective product.
The necessary T-support or wall mounting bracket is available as an accessory. More details regarding set contents can be found under the relevant product
The necessary plinth or wall mounting bracket is available as an accessory (Product: 238988, 238989, 238990, 238991)

HPA-O Plus compact Set 1.1

Benefits
- The air source heat pump is ideally suited to new builds
- Cost optimised solution with all required system components incl. DHW cylinder
- Small footprint as just one indoor and outdoor unit is required
- The mono block heat pump is installed outdoors and its variable speed compressor ensures perfectly matched heating output
- Compact DHW cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing

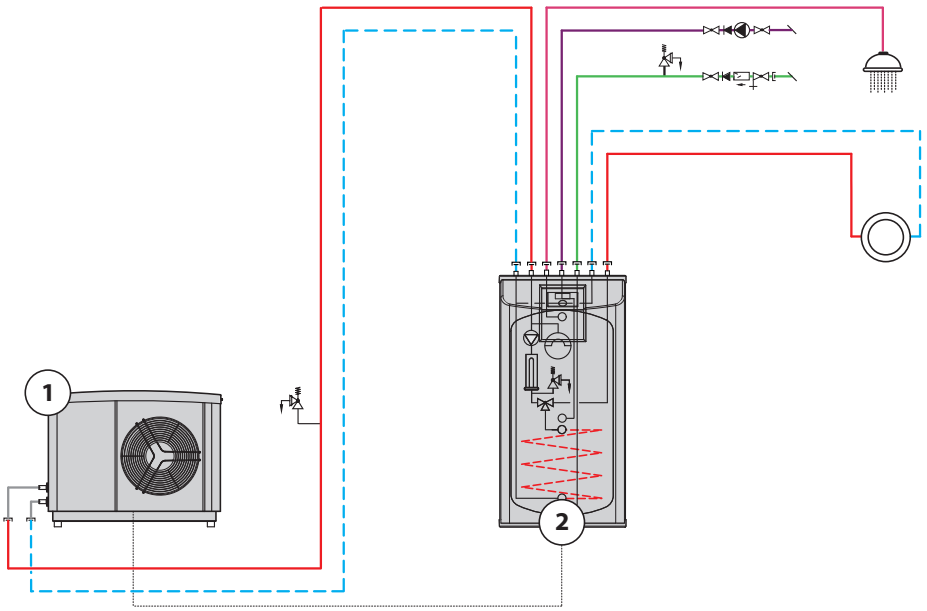
Application • This mono block heat pump with output-dependent control is equipped with a DHW cylinder and all hydraulic components for the heating installation. • Standard delivery also includes: circulation pump, 3/2-way diverter valve, safety valve and electric emergency/auxiliary heater. • Control is provided by the integral heat pump manager.

HPA-O 3 CS Plus compact Set 1.1

		HPA-O 3 CS Plus compact Set 1.1	HPA-O 3 CS Plus compact Set S 1.1	HPA-O 4 CS Plus compact Set 1.1	HPA-O 4 CS Plus compact Set S 1.1
Part number		**204267**	**204271**	**204268**	**204281**

		HPA-O 6 CS Plus compact Set 1.1	HPA-O 6 CS Plus compact Set S 1.1	HPA-O 8 CS Plus compact Set 1.1	HPA-O 8 CS Plus compact Set S 1.1
Part number		**204269**	**204272**	**204270**	**204273**

Inverter



Set components		HPA-O 3 CS Plus compact Set 1.1	HPA-O 3 CS Plus compact Set S 1.1	HPA-O 4 CS Plus compact Set 1.1	HPA-O 4 CS Plus compact Set S 1.1
1	Type	HPA-O 3 CS Plus	HPA-O 3 CS Plus	HPA-O 4 CS Plus	HPA-O 4 CS Plus
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	177	177	177	177
2	Type	HSBB 180 Plus	HSBB 180 S Plus	HSBB 180 Plus	HSBB 180 S Plus
	Qty	1	1	1	1
		Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder
	Page	317	317	317	317

Set components		HPA-O 6 CS Plus compact Set 1.1	HPA-O 6 CS Plus compact Set S 1.1	HPA-O 8 CS Plus compact Set 1.1	HPA-O 8 CS Plus compact Set S 1.1
1	Type	HPA-O 6 CS Plus	HPA-O 4 CS Plus	HPA-O 8 CS Plus	HPA-O 8 CS Plus
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	177	177	177	177
2	Type	HSBB 180 Plus	HSBB 180 S Plus	HSBB 180 Plus	HSBB 180 S Plus
	Qty	1	1	1	1
		Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder
	Page	317	317	317	317

Further information about the Set components can be found under the respective product.
The necessary T-support or wall mounting bracket is available as an accessory.

HPA-O Plus compact D Set 1.1

HPA-O 3 CS Plus compact D Set 1.1

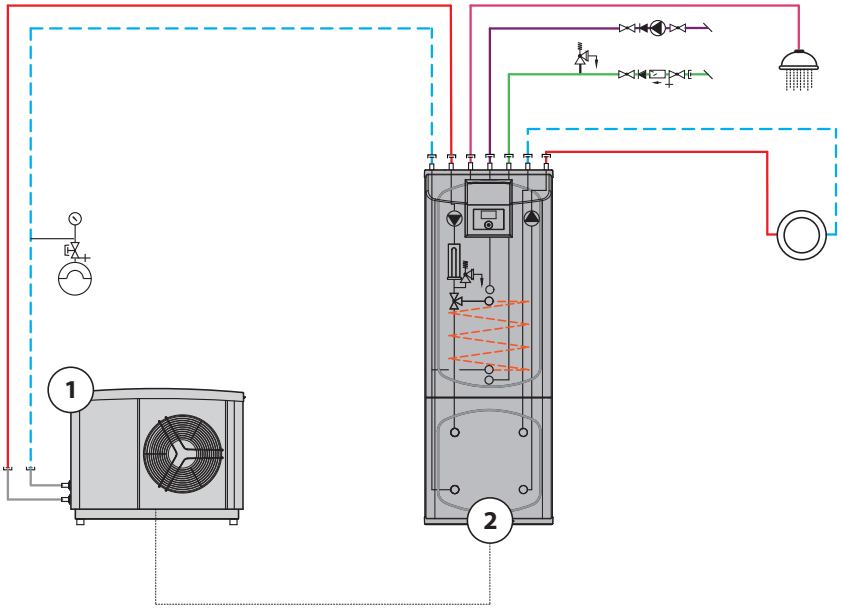
Benefits

- The air source heat pump is ideally suited to new builds
- Thanks to flow separation, the heating system can be integrated easily and very safely
- Small footprint as just one indoor and outdoor unit is required
- The mono block heat pump is installed outdoors and its variable speed compressor ensures perfectly matched heating output
- DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing

Application • This mono block heat pump with output-dependent control has a highly integrated indoor unit to minimise the installation area. • The following components are integrated: DHW cylinder, parallel buffer cylinder, cylinder charging pump, circulation pump, 3/2-way diverter valve, safety valve and electric emergency/auxiliary heater. The heat pump manager, which controls the appliance, is also built in.

		HPA-O 3 CS Plus compact D Set 1.1	HPA-O 3 CS Plus compact D Set S 1.1	HPA-O 4 CS Plus compact D Set 1.1	HPA-O 4 CS Plus compact D Set S 1.1
Part number		**204282**	**204277**	**204274**	**204278**

		HPA-O 6 CS Plus compact D Set 1.1	HPA-O 6 CS Plus compact D Set S 1.1	HPA-O 8 CS Plus compact D Set 1.1	HPA-O 8 CS Plus compact D Set S 1.1
Part number		**204275**	**204279**	**204276**	**204280**



Set components		HPA-O 3 CS Plus compact D Set 1.1	HPA-O 3 CS Plus compact D Set S 1.1	HPA-O 4 CS Plus compact D Set 1.1	HPA-O 4 CS Plus compact D Set S 1.1
1	Type	HPA-O 3 CS Plus	HPA-O 3 CS Plus	HPA-O 4 CS Plus	HPA-O 4 CS Plus
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	177	177	177	177
2	Type	HSBC 180 Plus	HSBC 180 S Plus	HSBC 180 Plus	HSBC 180 S Plus
	Qty	1	1	1	1
		Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder
	Page	316	316	316	316

next page >

Inverter

Set components		HPA-O 6 CS Plus compact D Set 1.1	HPA-O 6 CS Plus compact D Set S 1.1	HPA-O 8 CS Plus compact D Set 1.1	HPA-O 8 CS Plus compact D Set S 1.1
1	Type	HPA-O 6 CS Plus	HPA-O 6 CS Plus	HPA-O 8 CS Plus	HPA-O 8 CS Plus
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	177	177	177	177
2	Type	HSBC 180 Plus	HSBC 180 S Plus	HSBC 180 Plus	HSBC 180 S Plus
	Qty	1	1	1	1
		Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder
	Page	316	316	316	316

Further information about the Set components can be found under the respective product.
The necessary T-support or wall mounting bracket is available as an accessory.

WPL 19/24 A

WPL 19 A Set

Benefits

- The air source heat pump for heating older buildings is installed outdoors
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Even at low outside temperatures, the enhanced vapour injection/enhanced saturated vapour injection of the heat pump achieves a high flow temperature
- Optimised for replacement of 13/18/23 E air source heat pumps installed outdoors
- Because of the high flow temperature all year round, also suitable for modernisation projects and for DHW heating
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- Can be integrated into the home network and operated via a smartphone
- High efficiency and low operating costs all year round, thanks to optimally matched components
- Low operating costs as mono mode DHW heating is possible

Application • This compact air source heat pump with output-dependent control and inverter technology is designed for outdoor installation, including installation in open spaces. • It can be used in modernisation projects as flow temperatures of up to 65 °C are available all year round for room heating and DHW heating.

Convenience features • The encapsulated refrigerant circuit and acoustically isolated compressor make very quiet operation possible. The modulating fan and the wide gaps between the evaporator fins, which create low air resistance, also help to minimise the sound power level. • With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation possible with electric emergency/auxiliary heater. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel.

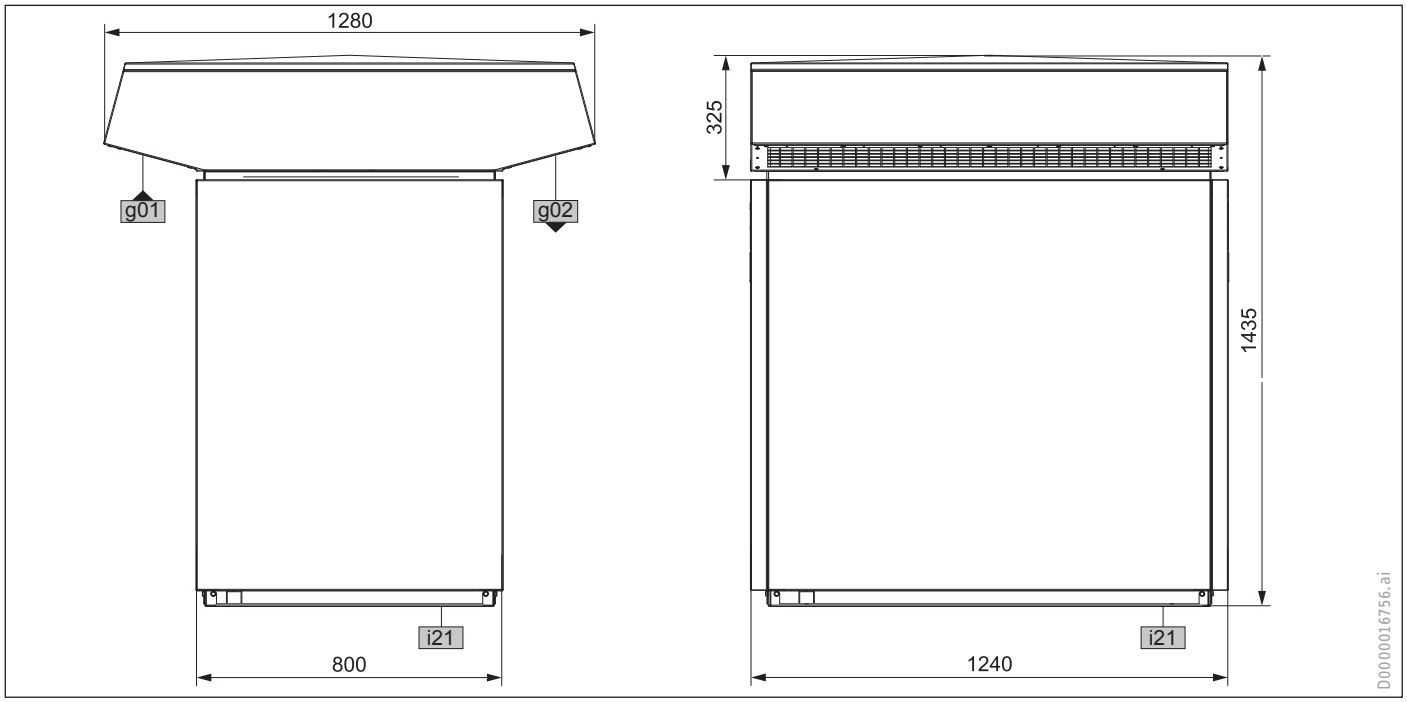
Efficiency • The heat pump delivers a high flow temperature all year round according to demand, as the combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures. This allows operation without an electric emergency/auxiliary heater. • The waste heat from the inverter is used to raise the return temperature. In addition, demand-dependent defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit increase the overall efficiency of the system.

Installation • The heat pump, with integral anti-vibration mounts, is directly connected to the heating system.

		WPL 19 A Set	WPL 24 A Set
Part number		**236412**	**236413**
Specification			
Energy efficiency class, heat pump W35		A+++	A+++
Energy efficiency class, heat pump W55		A++	A++
Heating output at A7/W35 (EN 14511)	kW	6.70	7.41
Heating output at A2/W35 (EN 14511)	kW	7.41	9.04
Heating output at A-7/W35 (EN 14511)	kW	9.91	13.45
COP at A7/W35 (EN 14511)		4.99	4.72
COP at A2/W35 (EN 14511)		4.12	4.00
COP at A-7/W35 (EN 14511)		3.32	3.00
SCOP 35 °C (EN 14825)		4.44	4.45
Sound power level (EN 12102)	dB(A)	59	59
Min./max. application limits for heat source	°C	-20/40	-20/40
Max. application limit on the heating side	°C	65	65
Height	mm	1434	1434
Width	mm	1240	1240
Depth	mm	1280	1280
Weight	kg	279	279
Rated voltage, compressor	V	400	400
SCOP 55 °C (EN 14825)	°C	3.64	3.53

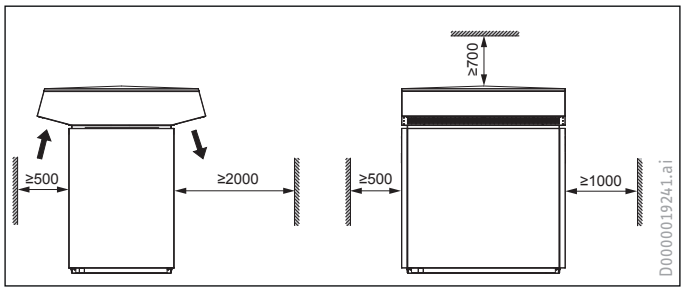
next page >

		WPL 19 A Set	WPL 24 A Set
Rated voltage, emergency/auxiliary heater	V	400	400
Refrigerant		R410A	R410A
Recommended accessories			
Part number		**229336**	**229336**
Type		ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway
Part number		**232805**	**232805**
Type		HM Trend	HM Trend
Description		Hydraulic module	Hydraulic module
Part number		**233826**	**233826**
Type		HMS Trend	HMS Trend
Description		Hydraulic module	Hydraulic module
DHW cylinder			
Part number		**203801**	**203801**
Type		HSBC 300 cool	HSBC 300 cool
Description		Integral cylinder	Integral cylinder
Part number		**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder
Part number		**229981**	**229981**
Type		SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Part number		**233510**	**233510**
Type		HSBC 200	HSBC 200
Description		Integral cylinder	Integral cylinder
Part number		**234801**	**234801**
Type		HSBC 200 S	HSBC 200 S
Description		Integral cylinder	Integral cylinder



		WPL 19 A Set	WPL 24 A Set
g01 Air intake		•	•
g02 Air discharge		•	•
i21 Entry supply line		•	•

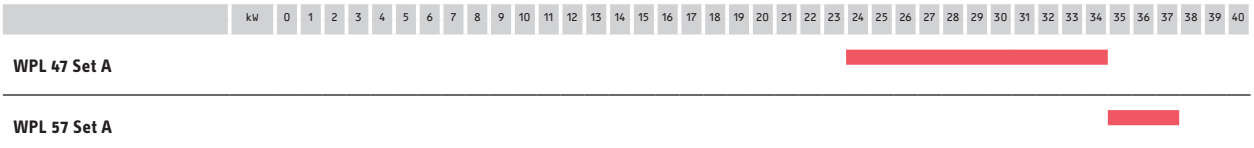
Minimum clearance diagram

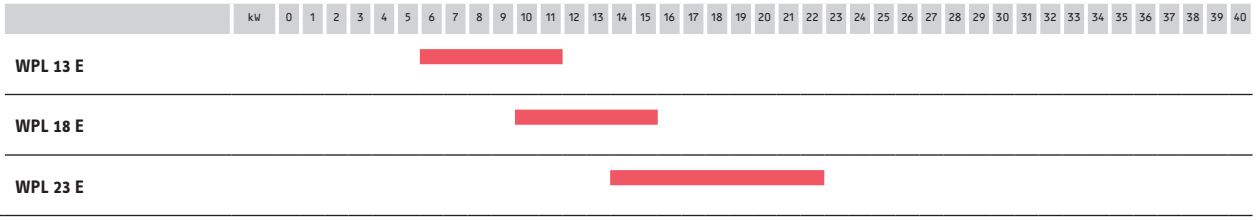


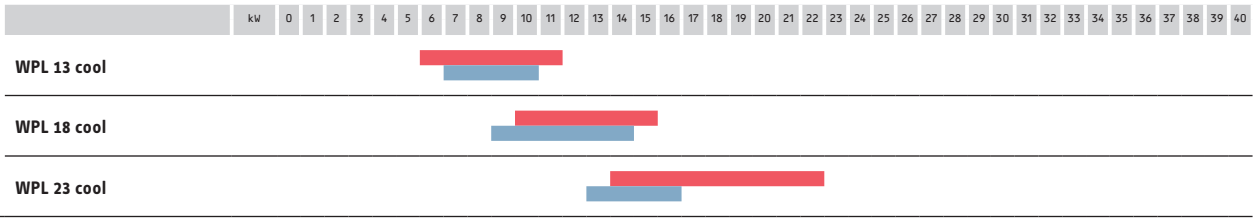
Application areas

Heating

Cooling







Air source heat pumps, outdoor installation – Fixspeed

Fixspeed

WPL 47/57 190
WPL 13-23 E 193
WPL 13-23 cool 199

Fixspeed

WPL 47/57

WPL 47 Set A

Benefits

- The air source heat pump for heating is installed outdoors
- Low installed height
- With integral heat and electricity meters
- Electronic expansion valve
- Suitable for cascade connection with high output demand
- Suitable for use in residential and commercial buildings due to high output
- Extremely versatile due to cascade control and dual mode integration
- High reliability thanks to robust single compressor design

Application • This air source heat pump is installed outdoors. It is suitable as a standalone appliance due to its high output of up to 24 kW. In a cascade, the appliance is suitable for apartment buildings and commercial applications up to 144 kW. • The casing design allows flexible installation, even in open spaces.

Convenience features • Quiet operation is ensured by the encapsulated refrigerant circuit and acoustically isolated compressor. The wide gaps between the evaporator fins enable low air resistance. In combination with the modulating fan, this results in a low sound power level. • In combination with the Internet Service Gateway (optional accessory), the heat pump controller (accessory) can be used to control the system in the home network or with a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • Fault messages can be processed externally via a 230 V signal. • Can be integrated into a building automation system if required using a software extension. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel.

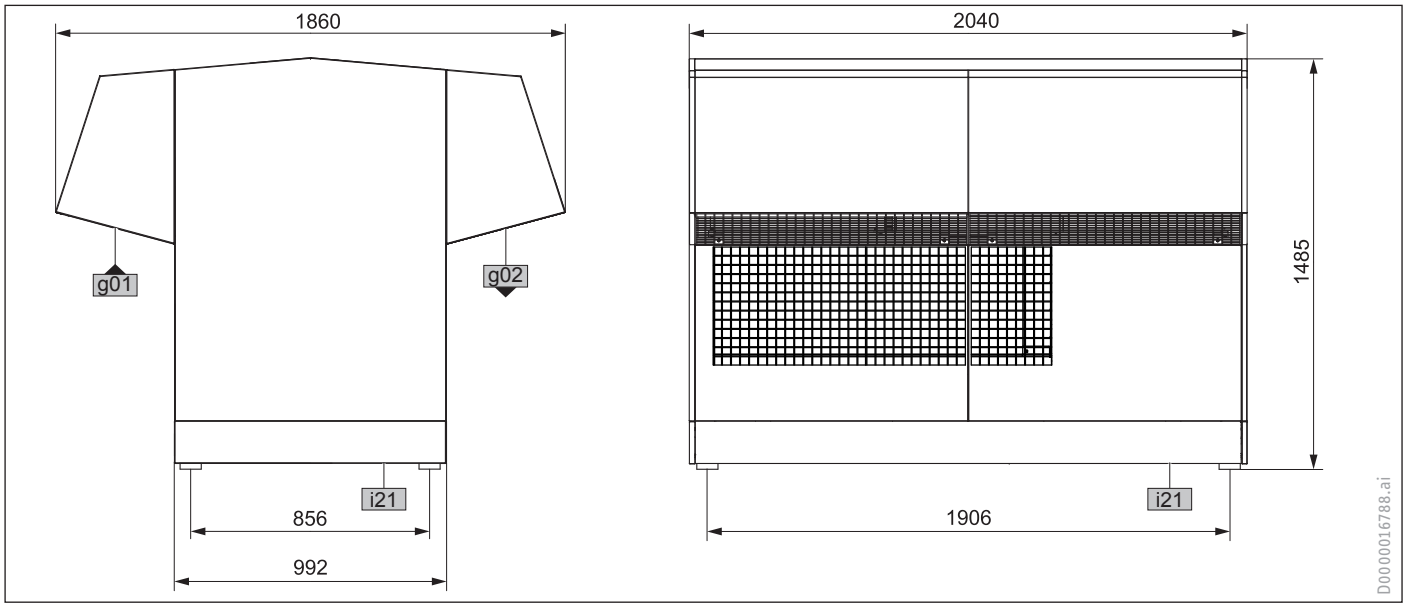
Efficiency • Demand-dependent, energy efficient defrosting through circuit reversal. • To enable efficient defrosting, the refrigerant circuit heats the condensate pan.

		WPL 47 Set A	WPL 57 Set A
Part number		**228836**	**228837**
Specification			
Energy efficiency class, heat pump W35		A++	A+
Energy efficiency class, heat pump W55		A+	A+
Heating output at A7/W35 (EN 14511)	kW	26.83	31.01
Heating output at A2/W35 (EN 14511)	kW	24.82	29.81
Heating output at A-7/W35 (EN 14511)	kW	21.68	24.02
COP at A7/W35 (EN 14511)		3.94	3.59
COP at A2/W35 (EN 14511)		3.43	3.30
COP at A-7/W35 (EN 14511)		3.05	2.84
SCOP 35 °C (EN 14825)		3.79	3.42
Sound power level (EN 12102)	dB(A)	69	69
Min./max. application limits for heat source	°C	-20 / 40	-20 / 40
Max. application limit on the heating side	°C	60	60
Height	mm	1485	1485
Width	mm	1860	1860
Depth	mm	2040	2040
Weight	kg	540	600
Rated voltage, compressor	V	400	400
Rated voltage, emergency/auxiliary heater	V	400	400

next page >

Fixspeed

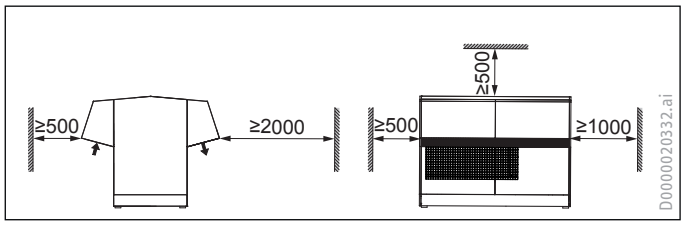
		WPL 47 Set A	WPL 57 Set A
Rated voltage, control unit	V	230	230
Refrigerant		R407C	R407C
Colour		white	white
Required accessories			
Part number		**236000**	**236000**
Type		WPM international	WPM international
Description		Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure
Recommended accessories			
Part number		**229336**	**229336**
Type		ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway
DHW cylinder			
Part number		**229981**	**229981**
Type		SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Part number		**229982**	**229982**
Type		SBS 1001 W	SBS 1001 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Buffer cylinder			
Part number		**185459**	**185459**
Type		SBP 700 E	SBP 700 E
Description		Buffer cylinder	Buffer cylinder
Part number		**203765**	**203765**
Type		STH 720 Plus	STH 720 Plus
Description		Buffer cylinder	Buffer cylinder
Part number		**227564**	**227564**
Type		SBP 1000 E	SBP 1000 E
Description		Buffer cylinder	Buffer cylinder



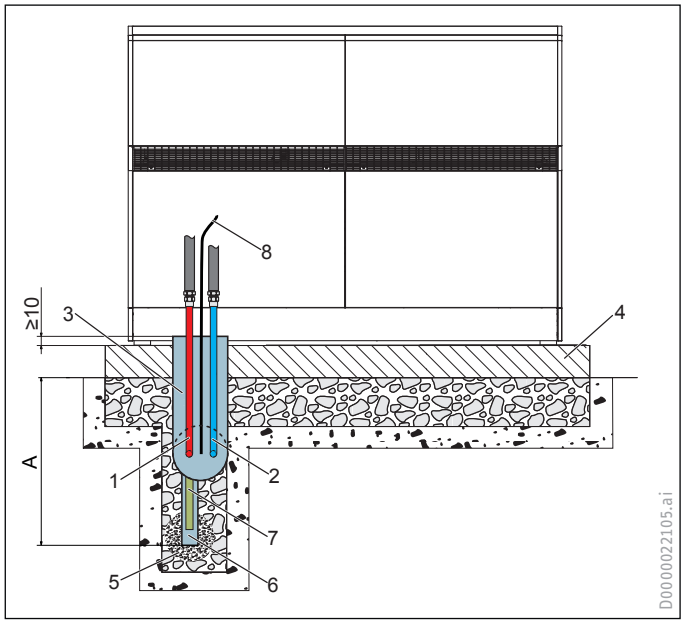
Fixspeed

		WPL 47 Set A	WPL 57 Set A
g01 Air intake		•	•
g02 Air discharge		•	•
i21 Entry supply line		•	•

Minimum clearance diagram



Installation conditions



Fixspeed

WPL 13-23 E

WPL 13 E

Benefits

- Air source heat pump for heating
- High heating output at low outside temperatures through enhanced vapour injection
- Higher COP through optimised refrigerant circuit
- Can be integrated into the home network and operated via a smartphone

Application • This air source heat pump for heating and DHW can be installed either outdoors or indoors as a mono block. Features enhanced vapour injection.

Convenience features • Quiet operation thanks to twin anti-vibration compressor mounts. • The enhanced vapour injection cools the scroll compressor at low outside temperatures, which achieves a higher heating output. • In combination with the Internet Service Gateway, the on-site heat pump controller can be used to control the system in the home network or with a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • An electric emergency/auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel.

Efficiency • Time optimised and energy efficient defrosting through circuit reversal with a 4/2-way valve. • For efficient defrosting, the refrigerant circuit heats the condensate pan.

		WPL 13 E	WPL 18 E	WPL 23 E
Part number		**227756**	**227757**	**227758**
Specification				
Energy efficiency class, heat pump W35		A++	A++	A+
Energy efficiency class, heat pump W55		A+	A+	A+
Heating output at A7/W35 (EN 14511)	kW	8.93	12.90	16.56
Heating output at A2/W35 (EN 14511)	kW	8.09	11.30	15.73
Heating output at A-7/W35 (EN 14511)	kW	6.77	9.72	13.21
COP at A7/W35 (EN 14511)		4.35	4.46	3.99
COP at A2/W35 (EN 14511)		3.76	3.73	3.62
COP at A-7/W35 (EN 14511)		3.20	3.27	3.14
SCOP 35 °C (EN 14825)		3.85	4.00	3.775
Sound power level (EN 12102)	dB(A)	64	65	65
Sound power level, outdoor installation (EN 12102)	dB(A)	64	65	65
Min./max. application limits for heat source	°C	-20...40	-20...40	-20...40
Max. application limit on the heating side	°C	60	60	60
Height	mm	1116	1116	1116
Width	mm	784	784	784
Depth	mm	1182	1182	1182
Weight	kg	205	212	211
Rated voltage, compressor	V	400	400	400
Rated voltage, emergency/auxiliary heater	V	400	400	400
Rated voltage, control unit	V	230	230	230
Refrigerant		R407C	R407C	R407C
Colour		white	white	

next page >

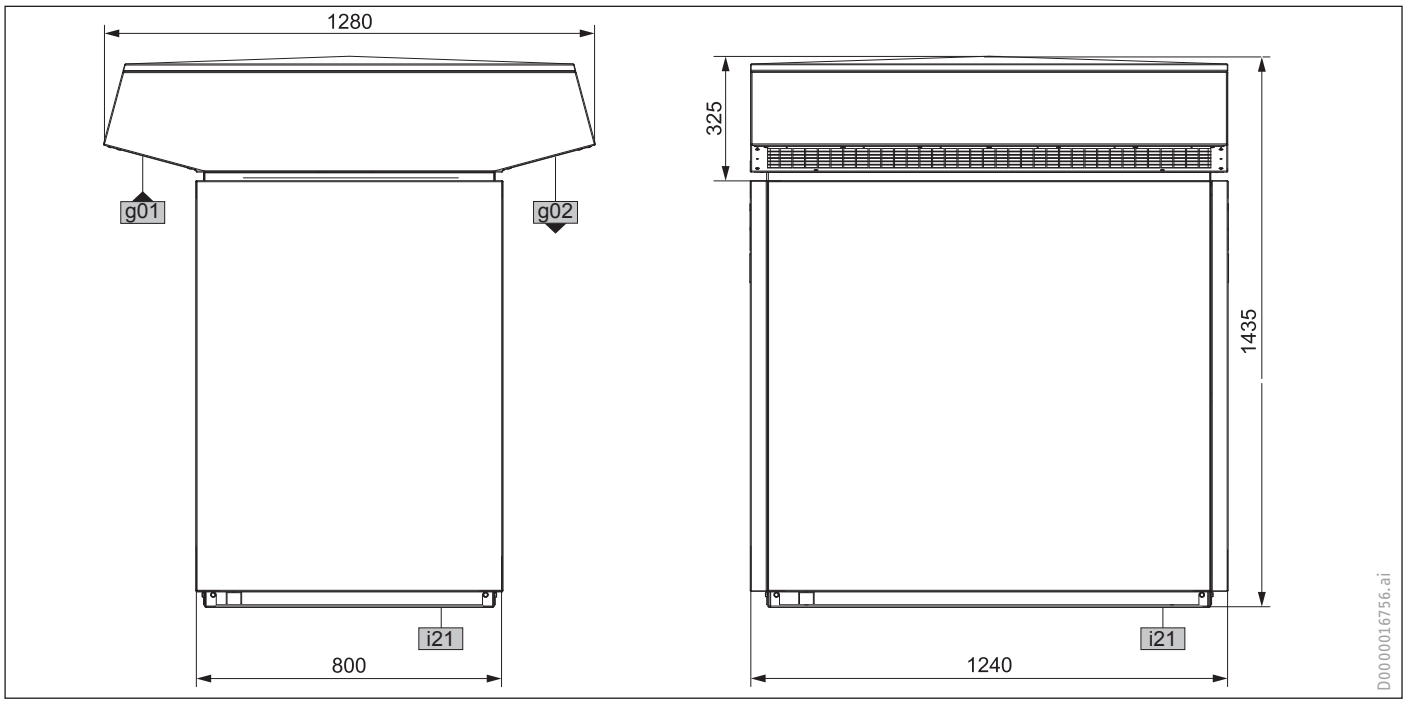
Fixspeed

		WPL 13 E	WPL 18 E	WPL 23 E
Required accessories				
Part number		**074412**	**074412**	**074412**
Type		ZVK WPL 13/18/23 I	ZVK WPL 13/18/23 I	ZVK WPL 13/18/23 I
Description		Casing components for indoor installation	Casing components for indoor installation	Casing components for indoor installation
Part number		**074413**	**074413**	**074413**
Type		ZVK WPL 13/18/23 A	ZVK WPL 13/18/23 A	ZVK WPL 13/18/23 A
Description		Casing components for outdoor installation	Casing components for outdoor installation	Casing components for outdoor installation
Part number		**201721**	**201721**	**201721**
Type		LSWP 560-3 SG	LSWP 560-3 SG	LSWP 560-3 SG
Description		Thermally and sound insulated air hose	Thermally and sound insulated air hose	Thermally and sound insulated air hose
Part number		**233837**	**233837**	**233837**
Type		AWG 560 H-SR	AWG 560 H-SR	AWG 560 H-SR
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated	External wall outlet, thermally insulated
Recommended accessories				
Part number		**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**232805**	**232805**	
Type		HM Trend	HM Trend	
Description		Hydraulic module	Hydraulic module	
Part number		**233826**	**233826**	
Type		HMS Trend	HMS Trend	
Description		Hydraulic module	Hydraulic module	
DHW cylinder				
Part number		**203801**	**203801**	
Type		HSBC 300 cool	HSBC 300 cool	
Description		Integral cylinder	Integral cylinder	
Part number		**221360**		
Type		SBB 301 WP		
Description		DHW cylinder		
Part number			**221361**	**221361**
Type			SBB 302 WP	SBB 302 WP
Description			DHW cylinder	DHW cylinder
Part number				**221362**
Type				SBB 401 WP SOL
Description				DHW cylinder
Part number		**229981**	**229981**	**229981**
Type		SBS 801 W	SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Part number		**233510**	**233510**	
Type		HSBC 200	HSBC 200	
Description		Integral cylinder	Integral cylinder	
Part number		**234801**	**234801**	
Type		HSBC 200 S	HSBC 200 S	
Description		Integral cylinder	Integral cylinder	

The housing required for indoor or outdoor installation is available as an accessory.

Wall outlets and air hoses for indoor installation must be ordered separately and are available as accessories in various versions. Preliminary specification (Product: 227756, 227758)

Fixspeed



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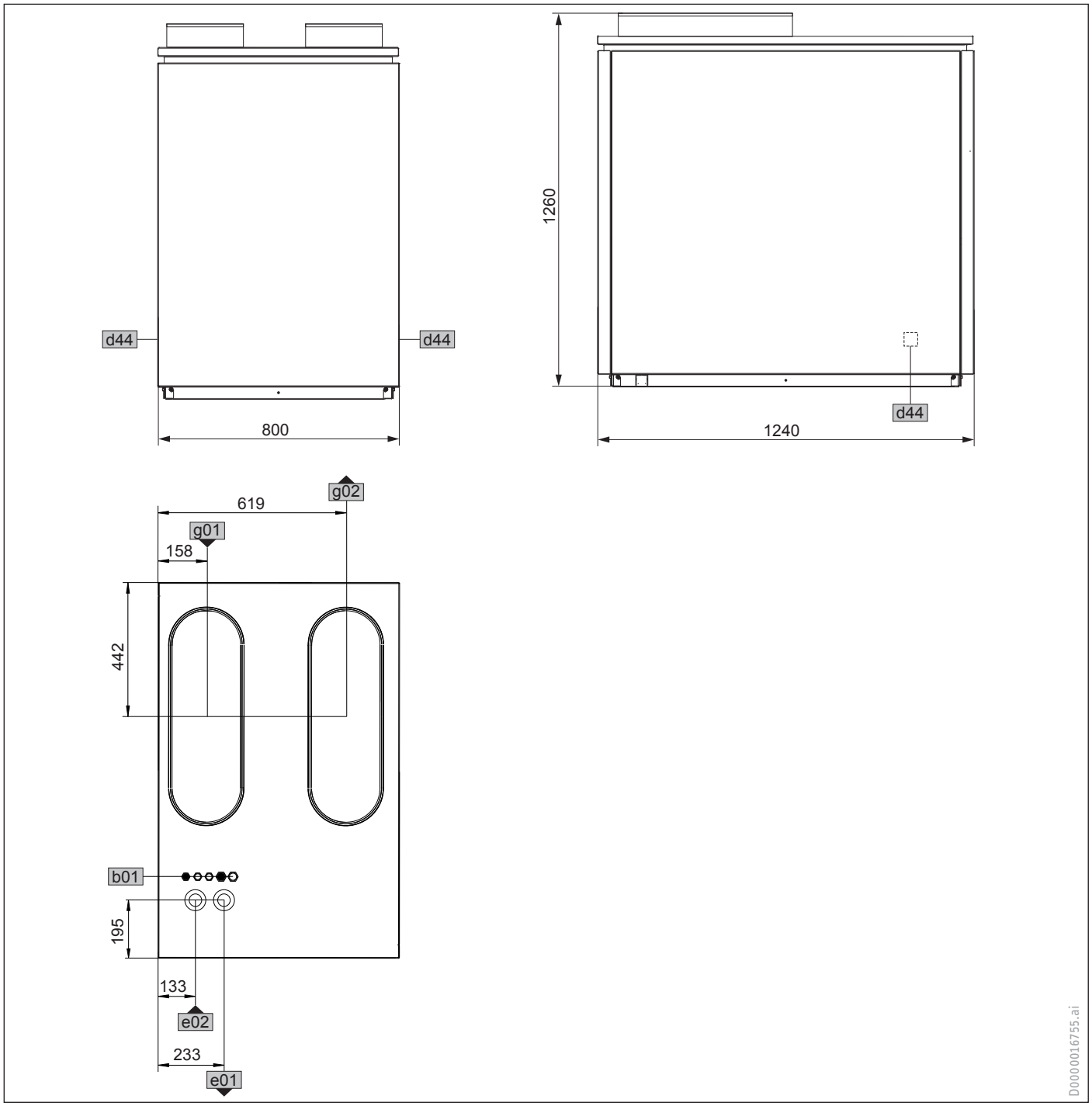
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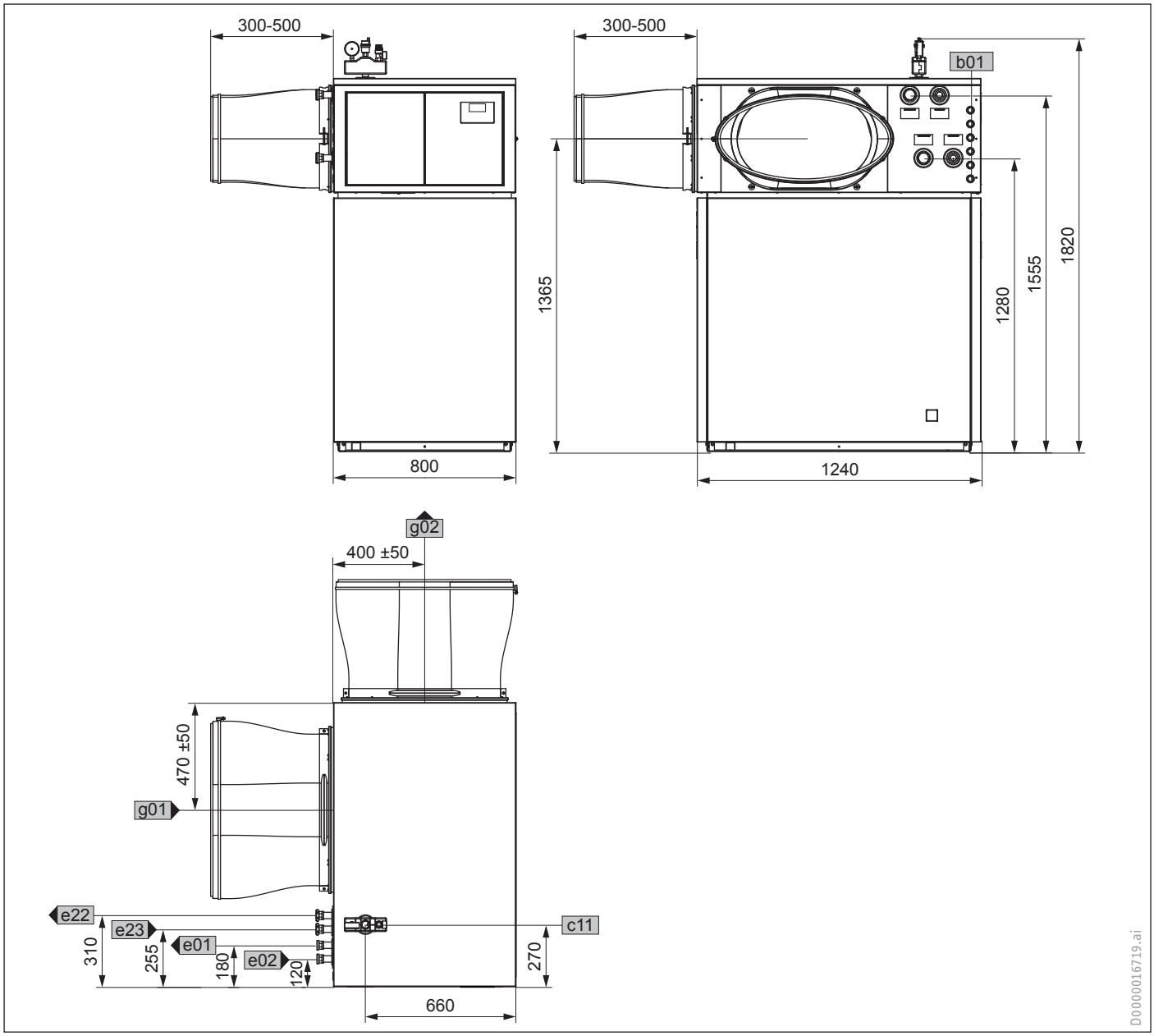
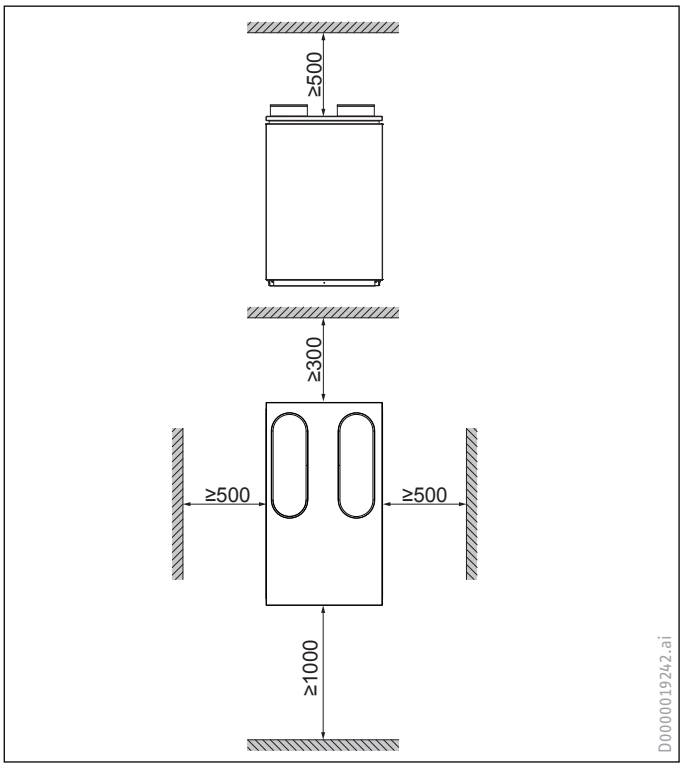
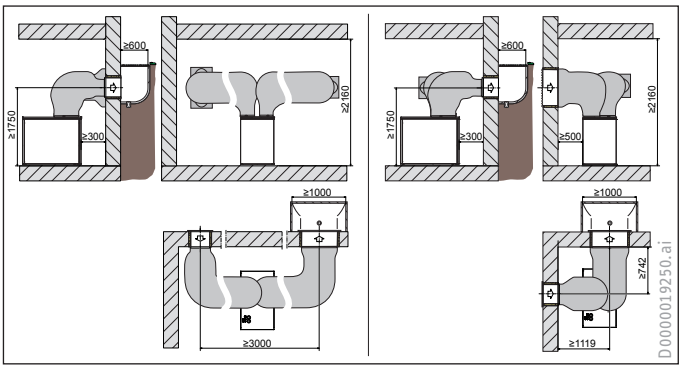


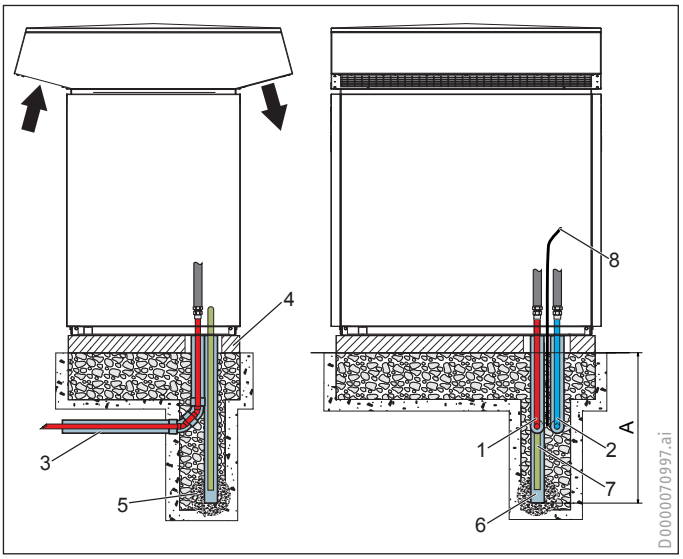
		WPL 13 E	WPL 18 E	WPL 23 E
b01 Entry electrical cables		•	•	•
d44 Outlet condensate drain		•	•	•
e01 Heating flow - male thread		G 1 1/4 A	G 1 1/4 A	G 1 1/4 A
e02 Heating return - male thread		G 1 1/4 A	G 1 1/4 A	G 1 1/4 A
g01 Air intake		•	•	•
g02 Air discharge		•	•	•
i21 Entry supply line		•	•	•

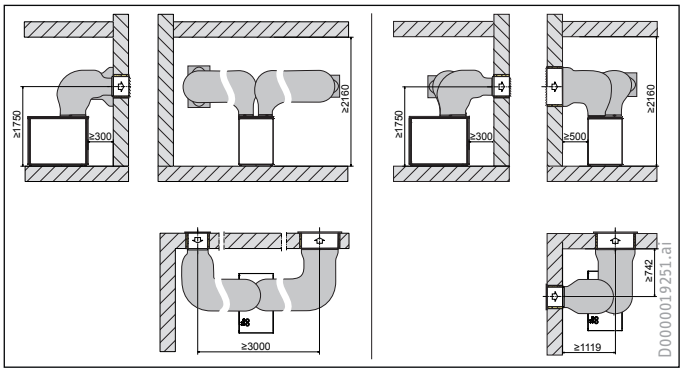
Minimum clearance diagram

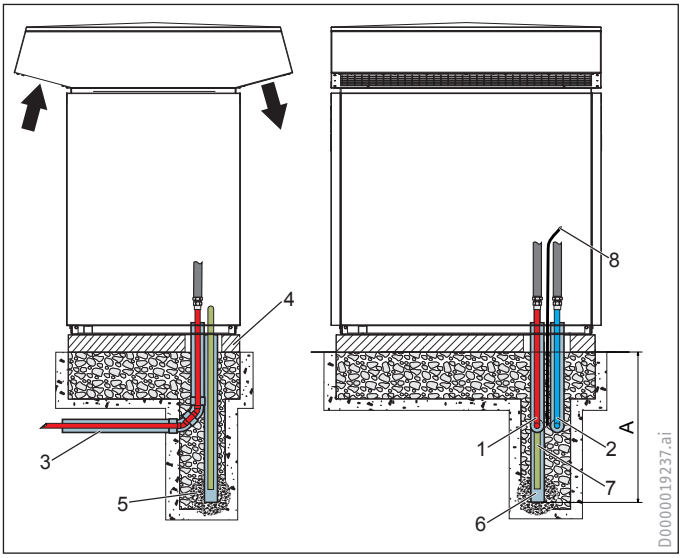




Installation conditions







Fixspeed

WPL 13-23 cool

WPL 13 cool

Benefits

- Air source heat pump for heating and cooling
- High heating output at low outside temperatures through enhanced vapour injection
- Higher COP through optimised refrigerant circuit
- Active cooling through circuit reversal
- Can be integrated into the home network and operated via a smartphone

Application • This air source heat pump with enhanced vapour injection can be installed as a mono block both outdoors and indoors. • The heat pump can be used for heating and DHW operation, as well as for efficient cooling through circuit reversal.

Convenience features • Quiet operation is ensured by twin anti-vibration compressor mounts. • The enhanced vapour injection cools the scroll compressor at low outside temperatures, which achieves a higher heating output. • The built-in 4/2-way valve allows the refrigerant circuit to be switched from heating to cooling mode. • In combination with the Internet Service Gateway, the on-site heat pump controller can be used to control the system in the home network or with a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • An electric emergency/auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel.

Efficiency • Time optimised and energy efficient defrosting through circuit reversal with a 4/2-way valve. • For efficient defrosting, the refrigerant circuit heats the condensate pan.

		WPL 13 cool	WPL 18 cool	WPL 23 cool
Part number		**223400**	**223401**	**223402**
Specification				
Energy efficiency class, heat pump W35		A+	A++	A+
Energy efficiency class, heat pump W55		A+	A+	A+
Heating output at A7/W35 (EN 14511)	kW	9.01	12.30	14.45
Heating output at A2/W35 (EN 14511)	kW	8.10	11.30	14.14
Heating output at A-7/W35 (EN 14511)	kW	6.60	9.72	12.27
COP at A7/W35 (EN 14511)		4.00	4.30	3.52
COP at A2/W35 (EN 14511)		3.40	3.70	3.23
COP at A-7/W35 (EN 14511)		3.00	3.20	2.91
SCOP 35 °C (EN 14825)		3.75	4.075	3.475
Sound power level (EN 12102)	dB(A)	64	65	65
Sound power level, outdoor installation (EN 12102)	dB(A)	62	65	65
Min./max. application limits for heat source	°C	-20...40	-20...40	-20...40
Max. application limit on the heating side	°C	60	60	60
Height	mm	1116	1116	1116
Width	mm	784	784	784
Depth	mm	1182	1182	1182
Weight	kg	210	214	220
Rated voltage, compressor	V	400	400	400
Rated voltage, emergency/auxiliary heater	V	400	400	400
Rated voltage, control unit	V	230	230	230
Refrigerant		R407C	R407C	R407C
Colour		white	white	

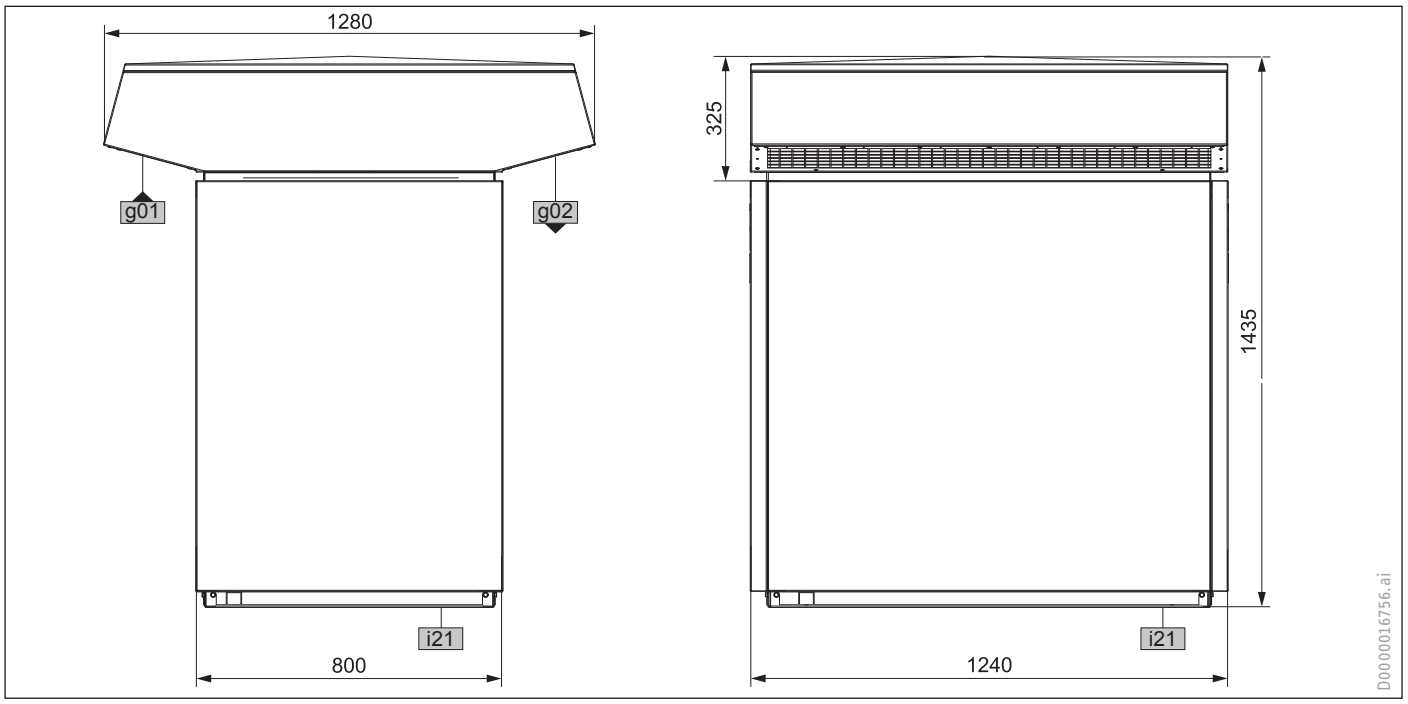
next page >

Fixspeed

		WPL 13 cool	WPL 18 cool	WPL 23 cool
Required accessories				
Part number		**074412**	**074412**	**074412**
Type		ZVK WPL 13/18/23 I	ZVK WPL 13/18/23 I	ZVK WPL 13/18/23 I
Description		Casing components for indoor installation	Casing components for indoor installation	Casing components for indoor installation
Part number		**074413**	**074413**	**074413**
Type		ZVK WPL 13/18/23 A	ZVK WPL 13/18/23 A	ZVK WPL 13/18/23 A
Description		Casing components for outdoor installation	Casing components for outdoor installation	Casing components for outdoor installation
Part number		**201721**	**201721**	**201721**
Type		LSWP 560-3 SG	LSWP 560-3 SG	LSWP 560-3 SG
Description		Thermally and sound insulated air hose	Thermally and sound insulated air hose	Thermally and sound insulated air hose
Part number		**233837**	**233837**	**233837**
Type		AWG 560 H-SR	AWG 560 H-SR	AWG 560 H-SR
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated	External wall outlet, thermally insulated
Recommended accessories				
Part number		**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**232805**	**232805**	
Type		HM Trend	HM Trend	
Description		Hydraulic module	Hydraulic module	
Part number		**233826**	**233826**	
Type		HMS Trend	HMS Trend	
Description		Hydraulic module	Hydraulic module	
DHW cylinder				
Part number		**221360**		
Type		SBB 301 WP		
Description		DHW cylinder		
Part number			**221361**	**221361**
Type			SBB 302 WP	SBB 302 WP
Description			DHW cylinder	DHW cylinder
Part number				**221362**
Type				SBB 401 WP SOL
Description				DHW cylinder
Buffer cylinder				
Part number		**205295**		
Type		SBP 200 Plus cool		
Description		Buffer cylinder suitable for cooling operation		
Part number			**205296**	**205296**
Type			SBP 400 Plus cool	SBP 400 Plus cool
Description			Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation

The housing required for indoor or outdoor installation is available as an accessory. Wall outlets and air hoses for indoor installation must be ordered separately and are available as accessories in various versions.

Fixspeed



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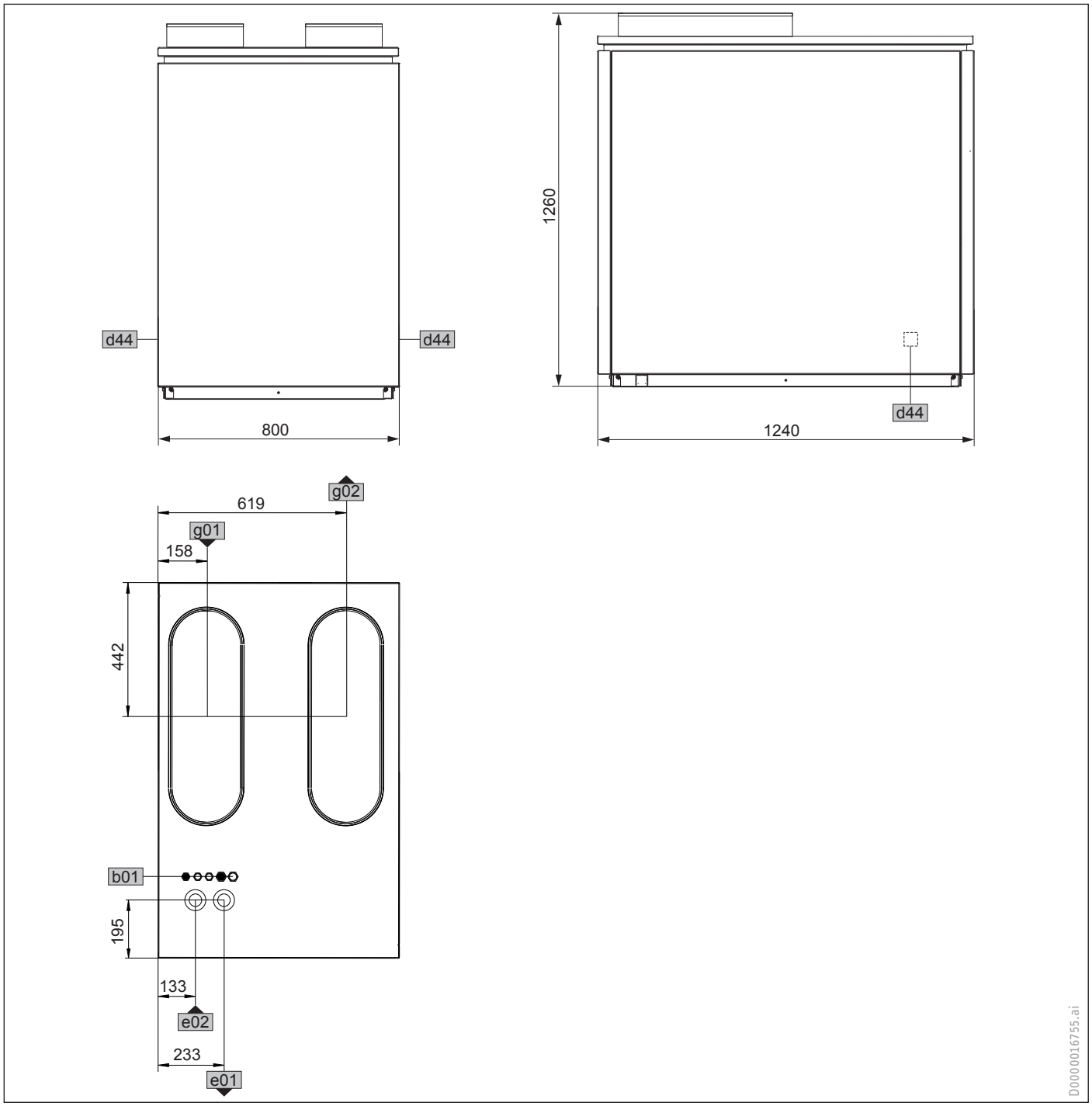
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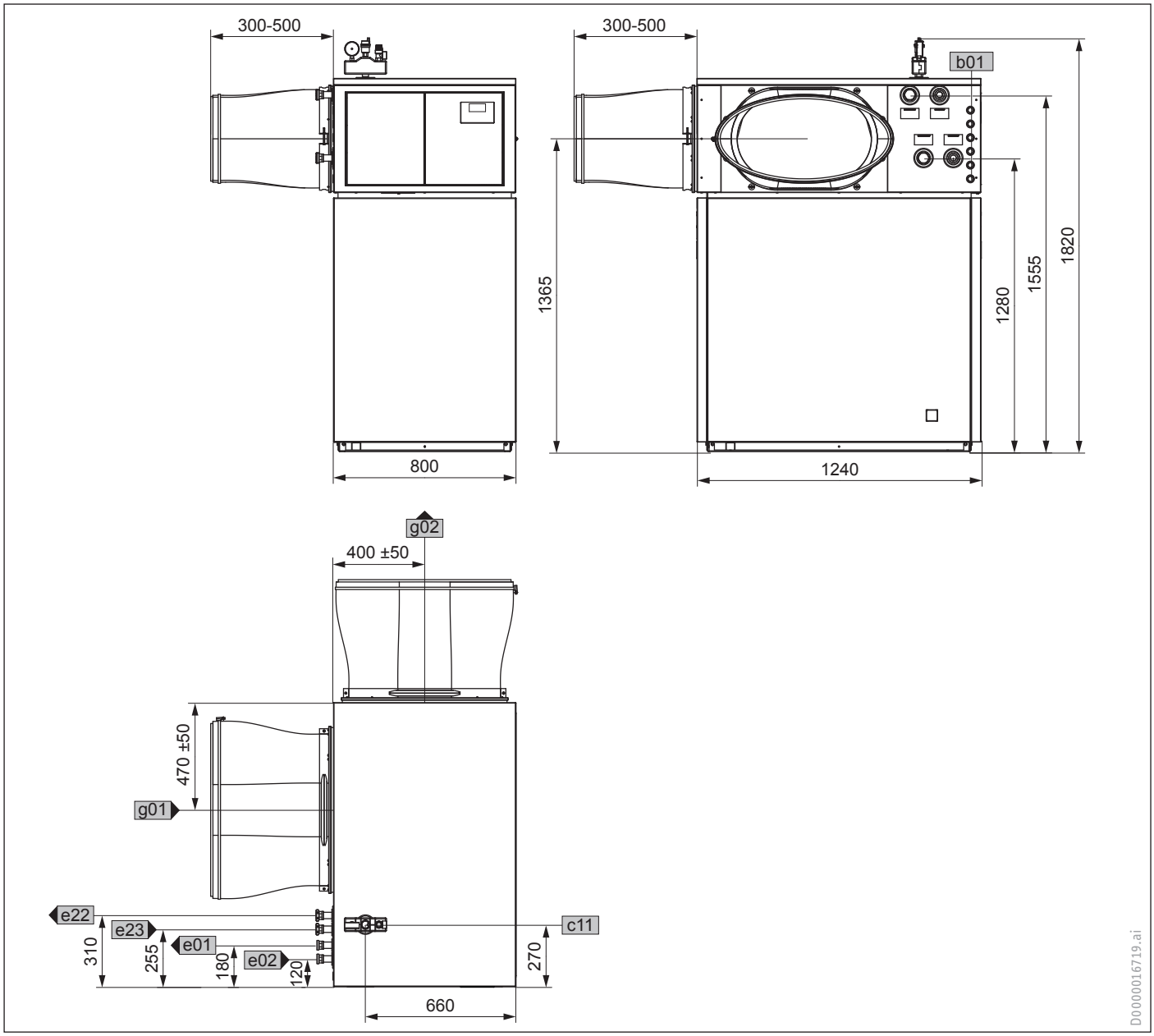
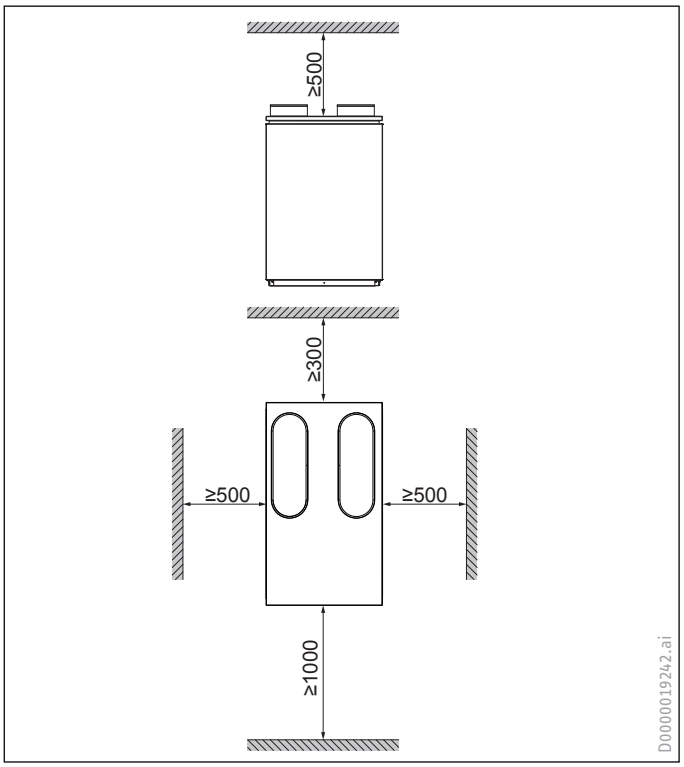
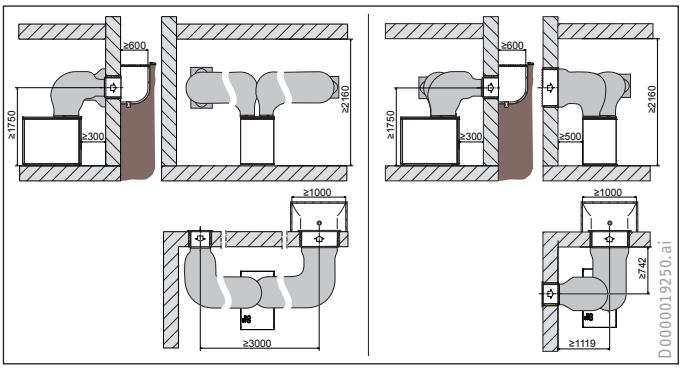


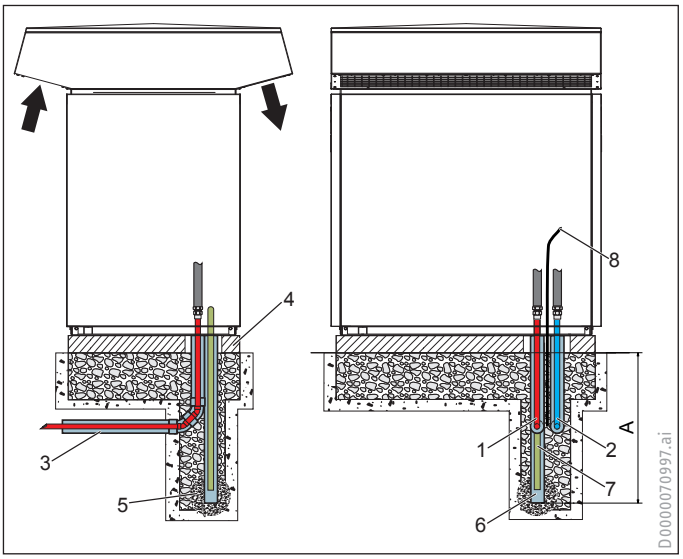
		WPL 13 cool	WPL 18 cool	WPL 23 cool
b01 Entry electrical cables		•	•	•
d44 Outlet condensate drain		•	•	•
e01 Heating flow - male thread		G 1 1/4 A	G 1 1/4 A	G 1 1/4 A
e02 Heating return - male thread		G 1 1/4 A	G 1 1/4 A	G 1 1/4 A
g01 Air intake		•	•	•
g02 Air discharge		•	•	•
i21 Entry supply line		•	•	•

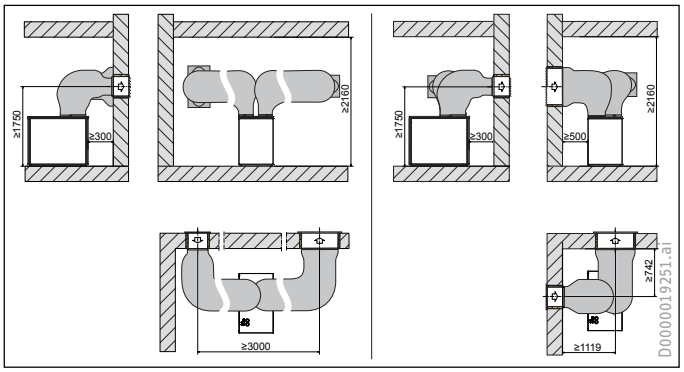
Minimum clearance diagram

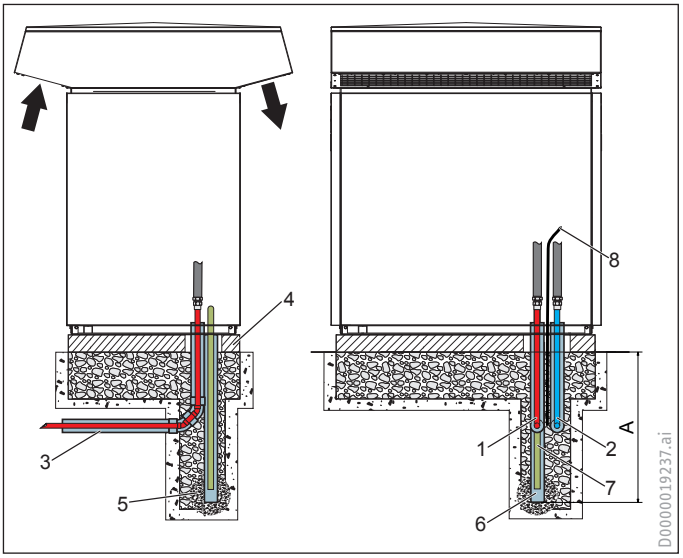




Installation conditions

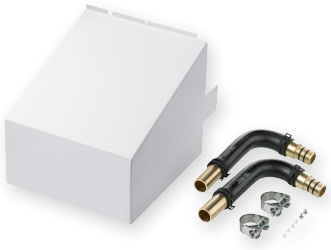






Installation accessories
Accessories 206

AS WP



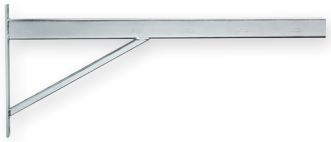
Benefits
› Hydraulic connection set
› White painted cover

Description • The connection set for supply lines from the ground is supplied with a painted cover that protects against the elements.

AS-WP 1

		AS-WP 1	AS-WP 2
Part number		**233622**	**233623**
Specification			
Connection		32 x 2.9 mm	G 1 1/4

WK



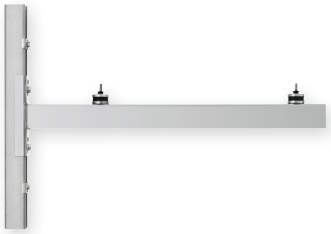
Benefits
› Includes ribbon heater to keep condensate connection free from frost (Product: 234722)

Description • The wall mounting brackets are made of corrosion-protected, zinc-plated steel. • Height-adjustable wall rails; the heat pump can be aligned with the aid of these appliance rails. • The set consists of two wall mounting brackets, which are supplied including anti-vibration mounts.

WK 2

		WK 2
Part number		**234722**
Specification		
Weight load	kg	200
Heated length	mm	2000
Connecting of connecting cable	mm	2000

WK 1.1



Benefits
- 2 wall mounting brackets for installing a heat pump including anti-vibration mounts
- Weight load max. 120 kg
- Support length: 750 mm
- Corrosion protection thanks to zinc-plated steel

Description • The wall mounting brackets are made of corrosion-protected, zinc-plated steel. • Height-adjustable wall rails; the heat pump can be aligned with the aid of these appliance rails. • The set consists of two wall mounting brackets, which are supplied including anti-vibration mounts.

WK 1.1

		WK 1.1
Part number		**238686**
Specification		
Weight load	kg	120

SK 1

Benefits
- T-support for heat pumps
- Set with 2 robust brackets
- Load bearing capacity 175 kg each

Description • The stainless steel support in a T-shape for outdoor installation is set in concrete. • The set comprises two supports including anti-vibration mounts and a self-limiting heating cable to keep the condensate pipework frost-free. • An installation aid for a defined clearance dimension is also supplied.

SK 1

		SK 1
Part number		**232964**
Specification		
Height	mm	950
Weight load	kg	175
Heated length	mm	1000
Connecting of connecting cable	mm	2000

SK 2

Benefits
- Set with 2 robust brackets
- Powder coated in white
- Height: 303 mm, width: 450 mm

Description • The powder coated bracket allows the heat pump to be secured to a strip foundation. • The set consists of two supports incl. the screws for securing the heat pump.

SK 2

		SK 2
Part number		**236693**
Specification		
Height	mm	303
Weight load	kg	91

Standard delivery includes: 2 pce, incl. screws for securing the heat pump to the bracket.

HZB-1/2

Benefits
- Robust ribbon heater
- Zinc-plated copper wires as earth conductors
- Full-surface protective aluminium jacket

Description • The heating cable keeps the condensate drain of air source heat pumps frost-free. Self-limiting and flexible. • Two copper wires serve as the supply cable. • The outer sheath is made of UV and moisture-resistant TPE-O. • Available as HZB-1 (length: 1 m) and HZB-2 (length: 2 m).

HZB-1

		HZB-1	HZB-2
Part number		**232978**	**232979**
Specification			
Rated output per metre at 10 °C outdoor air temperature	W	10	10
Heated length	mm	1000	2000
Rated voltage	V	230	230
Power supply		1/N/PE	1/N/PE
Min. handling/installation temperature	°C	-45	-45
Max. ambient temperature	°C	65	65
Min. bending radius	cm	2.50	2.50

ZVK-WPL A

Benefits
› Complete set for a heat pump located outdoors
› Colour: white

Description • The corrosion-protected sheet metal casing for outdoor air source heat pumps is made of hot-dip galvanised and powder coated sheet steel.

ZVK WPL 13/18/23 A

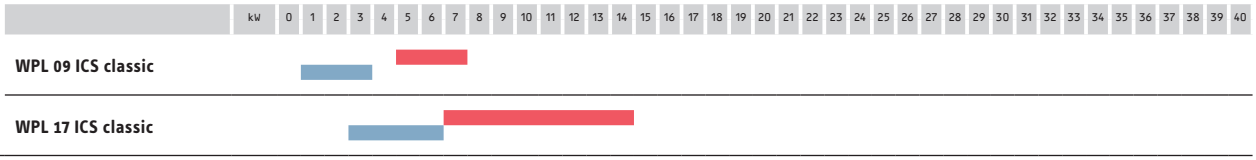
		ZVK WPL 13/18/23 A
Part number		**074413**
Specification		
Colour		white

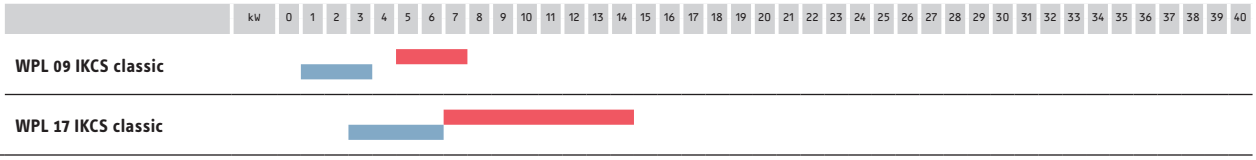
6

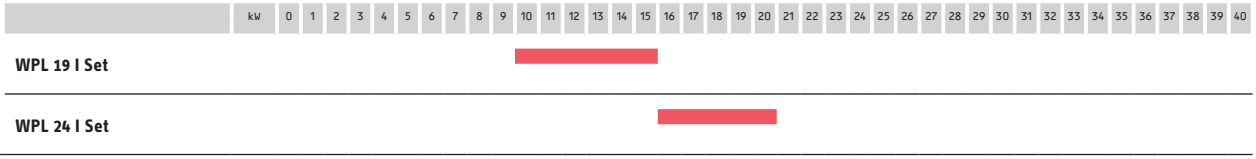
Application areas

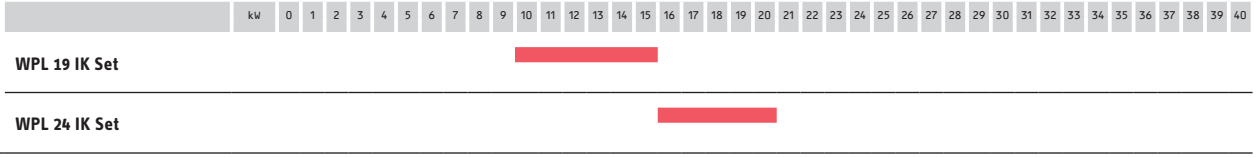
Heating

Cooling









Air source heat pumps, indoor installation – inverter

Inverter

WPL ICS classic 212
WPL IKCS classic 216
WPL ICS/IKCS classic comfort Set 219
WPL ICS/IKCS classic compact plus Set 220
WPL 19/24 I 222
WPL 19/24 IK 226

Inverter

WPL ICS classic

WPL 09 ICS classic

Benefits

- Heating and cooling of new builds with an air source heat pump installed indoors.
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors
- Straightforward connection: air hoses with quick-fit adaptors reduce installation effort
- Improved room climate in summer with active cooling using circuit reversal
- Easy and time saving installation with high level of integration
- Can be integrated into the home network and operated via a smartphone

Application • This air source heat pump with output-dependent control and inverter technology is installed indoors. The system is suitable for heating and DHW operation, but can also be used for efficient cooling through circuit reversal. The heat pump is used in new build or buildings with a low system temperature.

Convenience features • Very quiet operation is made possible by the encapsulated refrigerant circuit and acoustically isolated compressor. • The integral heat pump manager provides fully automatic control of the heating system with weather compensation. • In combination with the optional Internet Service Gateway, the system can be controlled in the home network or with a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • The integral circulation pump is controlled automatically with reference to the flow and return temperatures. • The following components are integrated as standard: the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and the safety valve with drain pipe. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A.

Efficiency • To raise the return temperature, the waste heat from the inverter is used, which increases the overall efficiency of the system. Demand-dependent, energy efficient defrosting through circuit reversal.

Installation • Thanks to the integral anti-vibration mount, the heat pump can be connected directly to the heating system. • As the flexible air hoses are preassembled and equipped with quick-fit adaptors, installation work is simplified. The air hoses are connected at the top of the appliance; manual trimming or sealing is not necessary.

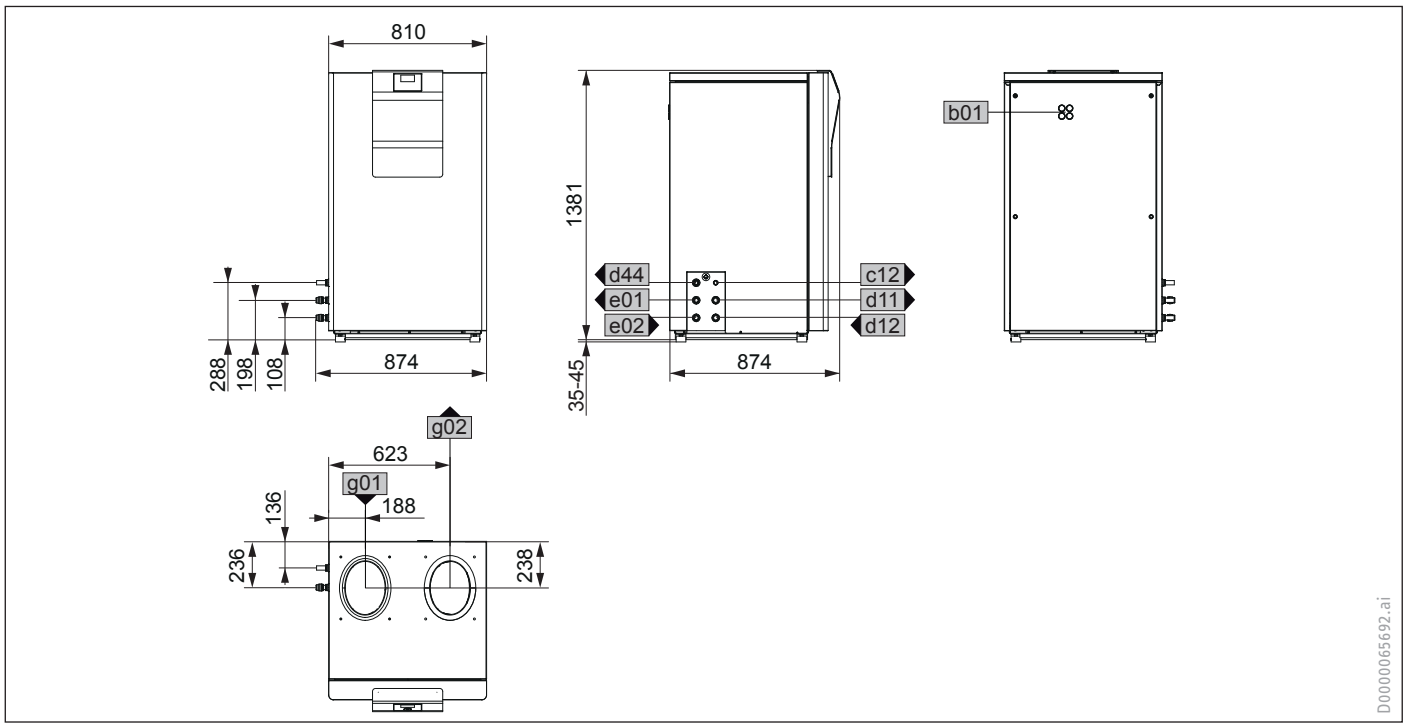
		WPL 09 ICS classic	WPL 17 ICS classic
Part number		**236375**	**236376**
Specification			
Energy efficiency class, heat pump W35		A+++	A++
Energy efficiency class, heat pump W55		A++	A++
Heating output at A7/W35 (EN 14511)	kW	2.06	4.27
Heating output at A2/W35 (EN 14511)	kW	2.64	5.02
Heating output at A-7/W35 (EN 14511)	kW	4.23	8.02
COP at A7/W35 (EN 14511)		4.68	4.74
COP at A2/W35 (EN 14511)		3.83	3.83
COP at A-7/W35 (EN 14511)		3.16	2.63
Cooling capacity at A35/W18 partial load	kW	1.85	3.60
Max. cooling capacity at A35/W18	kW	3.00	6.00
Energy efficiency ratio at A35/W18 partial load		3.96	2.78
Energy efficiency ratio at A35/W18 max.		2.22	1.83
SCOP 35 °C (EN 14825)		4.525	4.25
Sound power level (EN 12102)	dB(A)	45	51
Min./max. application limits for heat source	°C	-20/35	-20/35

next page >

		WPL 09 ICS classic	WPL 17 ICS classic
Max. application limit on the heating side	°C	60	60
Height	mm	1381	1381
Width	mm	874	874
Depth	mm	874	874
Weight	kg	173	175
Refrigerant		R410A	R410A
Required accessories			
Part number		**205786**	**205786**
Type		AWG 315 SR.2	AWG 315 SR.2
Description		Thermally insulated external wall air outlet	Thermally insulated external wall air outlet
Part number		**238565**	**238565**
Type		LSWP 315-2 SG Set	LSWP 315-2 SG Set
Description		Thermally insulated air hose with 2 EPS quick-fit adaptors	Thermally insulated air hose with 2 EPS quick-fit adaptors
Recommended accessories			
Part number		**229336**	**229336**
Type		ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway
DHW cylinder			
Part number		**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder
Part number		**229981**	**229981**
Type		SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Part number		**236684**	**236684**
Type		HSBC 200 L	HSBC 200 L
Description		Integral cylinder	Integral cylinder
Part number		**238826**	**238826**
Type		HSBC 300 L cool	HSBC 300 L cool
Description		Integral cylinder	Integral cylinder
Buffer cylinder			
Part number		**205295**	**205295**
Type		SBP 200 Plus cool	SBP 200 Plus cool
Description		Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation

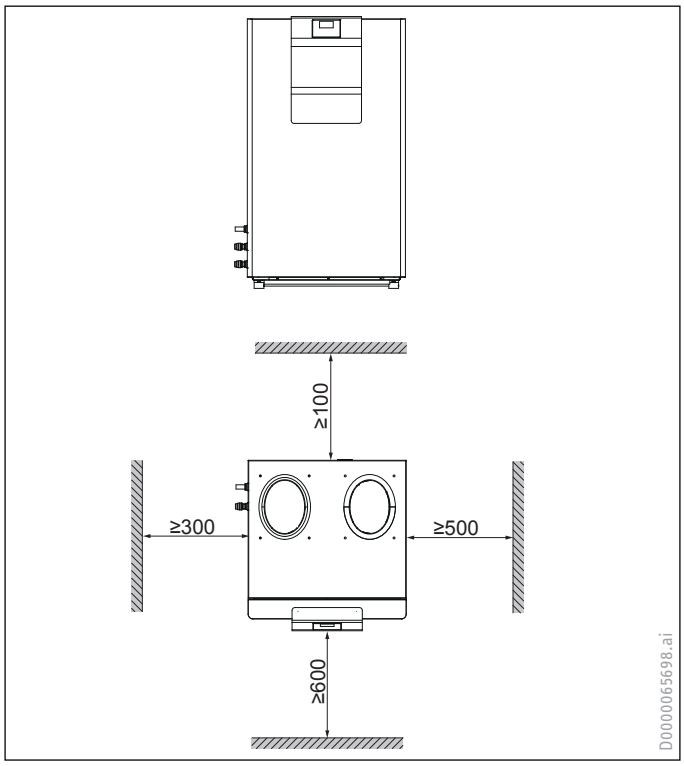
The air routing accessories required for the air intake/air discharge are available in various lengths under accessories.

Inverter



		WPL 09 ICS classic	WPL 17 ICS classic
b01 Entry electrical cables		•	•
c12 Safety valve drain - diameter	mm	22	
d44 Outlet condensate drain - diameter	mm	22	22
e01 Heating flow - diameter	mm	22	22
e02 Heating return - diameter	mm	22	22
g01 Air intake - nominal diameter		DN 315	DN 315
g02 Air discharge - nominal diameter		DN 315	DN 315

Minimum clearance diagram



WPL IKCS classic

WPL 09 IKCS classic

Benefits

- Heating and cooling of new builds with an air source heat pump installed indoors.
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors
- Straightforward connection: air hoses with quick-fit adaptors reduce installation effort
- Improved room climate in summer with active cooling using circuit reversal
- Easy and time saving installation with high level of integration
- Can be integrated into the home network and operated via a smartphone
- Optimised air ducts for straightforward corner installation

Application • This air source heat pump with output-dependent control and inverter technology is installed indoors. It is used for heating and DHW operation. In summer, efficient cooling is possible through circuit reversal. • The heat pump is suitable for new buildings and buildings with a low system temperature. • High flexibility in terms of siting, as the outdoor and exhaust air can be connected at the side or back. In addition, this type of air routing ensures lower sound emissions in the outdoor area.

Convenience features • Very quiet operation is made possible by the encapsulated refrigerant circuit and acoustically isolated compressor. The heating system is controlled fully automatically with weather compensation thanks to the integral heat pump manager. • In combination with the optional ISG Internet Service Gateway, the system can be controlled via the home network or a mobile device. • With integral heat and electricity metering via refrigerant circuit data. The integral heating circuit pump is controlled automatically subject to the flow and return temperatures. • Integrated as standard are the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and a safety valve with drain pipe. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A.

Efficiency • To raise the return temperature, the waste heat from the inverter is used, which increases the overall efficiency of the system. This is further aided by on-demand defrosting through circuit reversal.

Installation • The heat pump can be connected directly to the heating system thanks to the integral anti-vibration mounts. • Installation work is simplified as the flexible air hoses with quick-fit adaptor are preassembled. No manual trimming or sealing is necessary.

		WPL 09 IKCS classic	WPL 17 IKCS classic
Part number		**236377**	**236378**
Specification			
Energy efficiency class, heat pump W35		A+++	A++
Energy efficiency class, heat pump W55		A++	A++
Heating output at A7/W35 (EN 14511)	kW	2.06	4.22
Heating output at A2/W35 (EN 14511)	kW	2.62	4.95
Heating output at A-7/W35 (EN 14511)	kW	4.18	7.80
COP at A7/W35 (EN 14511)		4.68	4.60
COP at A2/W35 (EN 14511)		3.76	3.70
COP at A-7/W35 (EN 14511)		3.07	2.58
Cooling capacity at A35/W18 partial load	kW	1.85	3.60
Max. cooling capacity at A35/W18	kW	3.00	6.00
Energy efficiency ratio at A35/W18 partial load		3.76	2.58
Energy efficiency ratio at A35/W18 max.		2.02	1.63

next page >

		WPL 09 IKCS classic	WPL 17 IKCS classic
SCOP 35 °C (EN 14825)		4.45	4.125
Sound power level (EN 12102)	dB(A)	45	50
Min./max. application limits for heat source	°C	-20/35	-20/35
Max. application limit on the heating side	°C	60	60
Height	mm	1892	1892
Width	mm	893	893
Depth	mm	833	833
Weight	kg	219	221
Refrigerant		R410A	R410A
Required accessories			
Part number		**205786**	**205786**
Type		AWG 315 SR.2	AWG 315 SR.2
Description		Thermally insulated external wall air outlet	Thermally insulated external wall air outlet
Recommended accessories			
Part number		**229336**	**229336**
Type		ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway
DHW cylinder			
Part number		**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder
Part number		**229981**	**229981**
Type		SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Part number		**236684**	**236684**
Type		HSBC 200 L	HSBC 200 L
Description		Integral cylinder	Integral cylinder
Part number		**238826**	**238826**
Type		HSBC 300 L cool	HSBC 300 L cool
Description		Integral cylinder	Integral cylinder
Buffer cylinder			
Part number		**205295**	**205295**
Type		SBP 200 Plus cool	SBP 200 Plus cool
Description		Buffer cylinder suitable for cooling operation	Buffer cylinder suitable for cooling operation

The air routing accessories required for the air intake/air discharge are available in various lengths under accessories.

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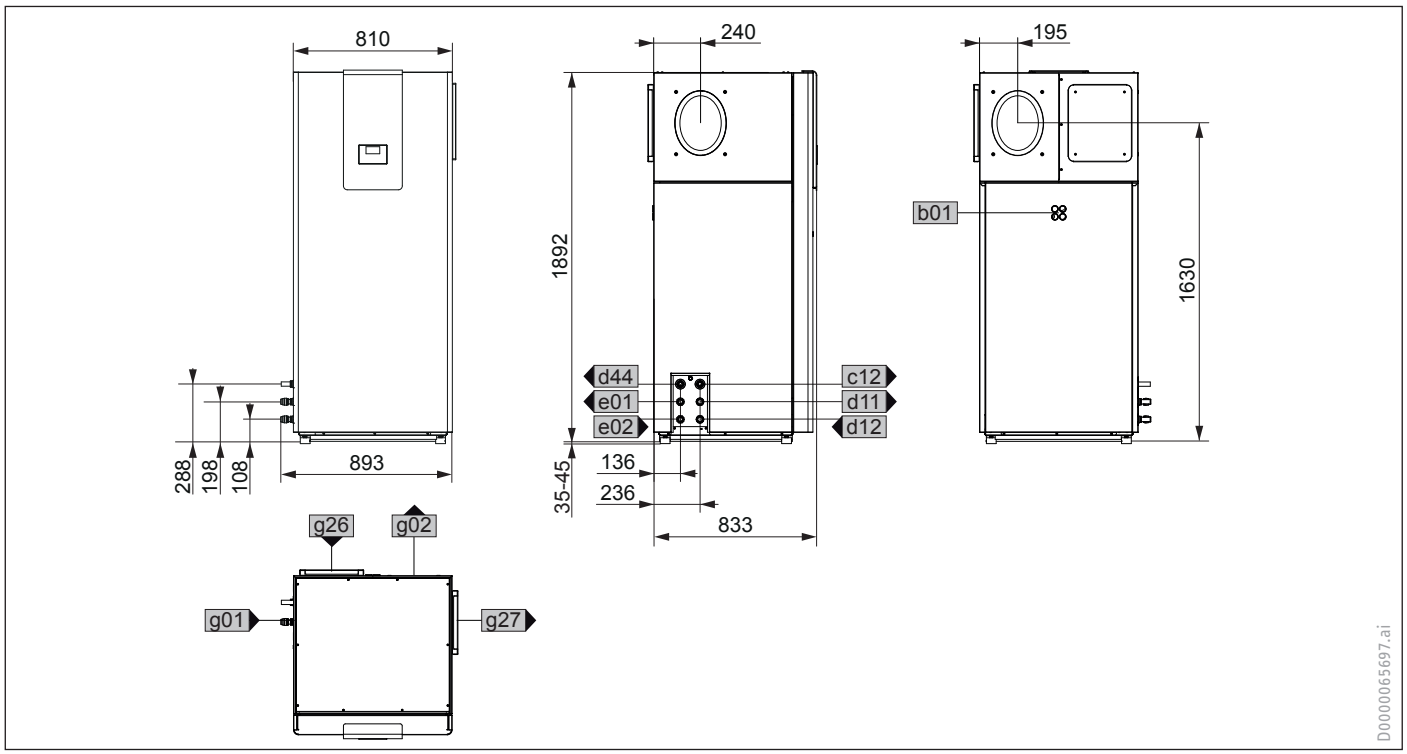
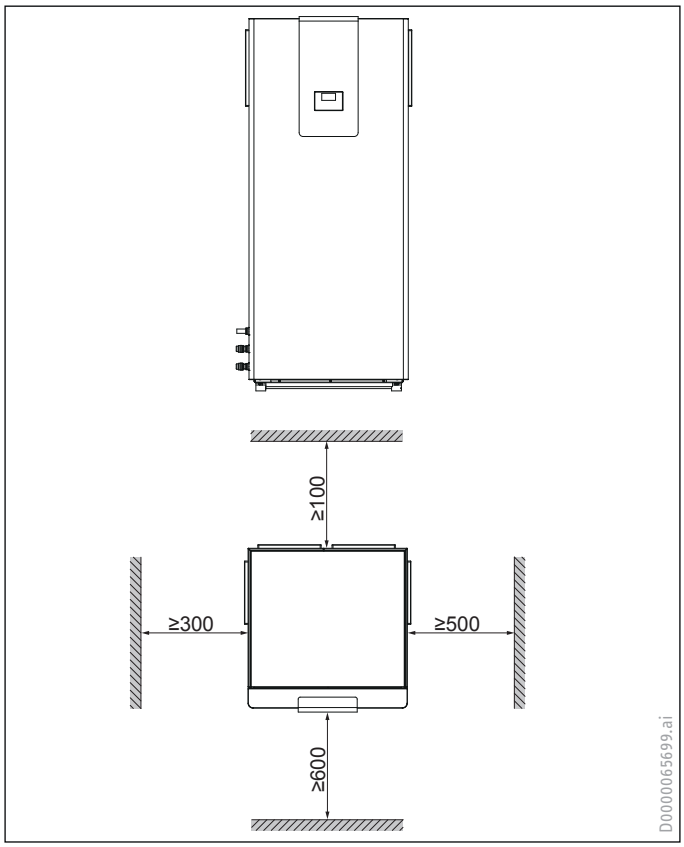


		WPL 09 IKCS classic	WPL 17 IKCS classic
b01 Entry electrical cables		•	•
c12 Safety valve drain - diameter	mm	22	22
d11 Heat pump DHW flow - diameter	mm	22	22
d12 Heat pump DHW return - diameter	mm	22	22
d44 Outlet condensate drain - diameter	mm	22	22
e01 Heating flow - diameter	mm	22	22
e02 Heating return - diameter	mm	22	22
g01 Air intake - nominal diameter		DN 315	DN 315
g02 Air discharge - nominal diameter		DN 315	DN 315
g26 Air intake optional - nominal diameter		DN 315	DN 315
g27 Air discharge optional - nominal diameter		DN 315	DN 315

Minimum clearance diagram



WPL ICS/IKCS classic comfort Set

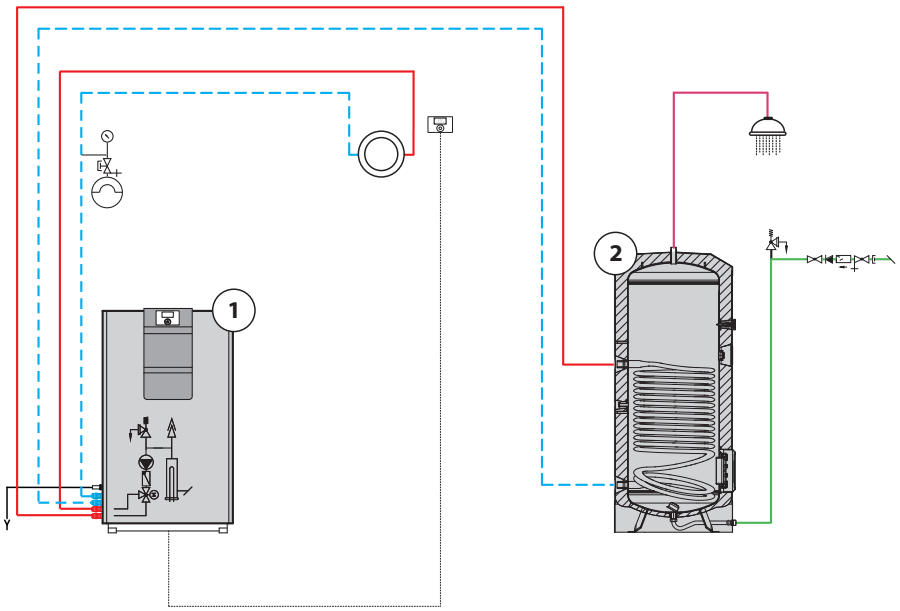
WPL 09 ICS classic comfort Set

Benefits

- The air source heat pump set is installed indoors and is remarkably quiet in operation
- High hot water convenience due to separate DHW cylinder
- Heat pump including hydraulic components and heat pump manager pre-installed for direct heating circuit connection with a separate DHW cylinder
- Top-mounted casing for excellent noise reduction and space saving corner installation (Product: 236734, 236735)

Application • This mono block heat pump with output-dependent control is combined with a DHW cylinder for greater hot water convenience. • All components are installed indoors, so only minimal operating noise occurs outdoors. • The following components are integrated: cylinder charging pump, circulation pump, 3/2-way diverter valve, safety valve, electric emergency/auxiliary heater and the heat pump manager for controlling the system.

		WPL 09 ICS classic comfort Set	WPL 09 IKCS classic comfort Set	WPL 17 ICS classic comfort Set	WPL 17 IKCS classic comfort Set
Part number		**236730**	**236734**	**236731**	**236735**



Set components		WPL 09 ICS classic comfort Set	WPL 09 IKCS classic comfort Set	WPL 17 ICS classic comfort Set	WPL 17 IKCS classic comfort Set
1	Type	WPL 09 ICS classic	WPL 09 IKCS classic	WPL 17 ICS classic	WPL 17 IKCS classic
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	212	216	212	216
2	Type	SBB 301 WP	SBB 301 WP	SBB 301 WP	SBB 301 WP
	Qty	1	1	1	1
		DHW cylinder	DHW cylinder	DHW cylinder	DHW cylinder
	Page	322	322	322	322

Further information about the Set components can be found under the respective product.

WPL ICS/IKCS classic compact plus Set

WPL 09 ICS classic compact plus Set

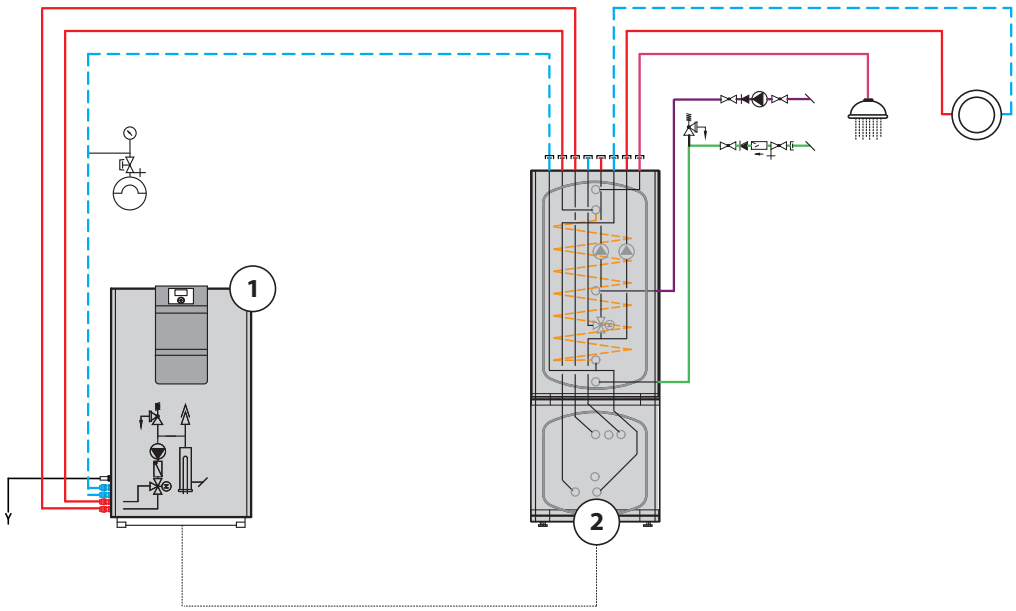
Benefits

- The air source heat pump set is installed indoors and is remarkably quiet in operation
- Thanks to flow separation, the heating system can be integrated easily and very safely
- DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing
- Top-mounted casing for excellent noise reduction and space saving corner installation (Product: 236732, 236733)

Application • This mono block heat pump with output-dependent control, with highly integrated indoor module, is suitable for fast, space saving installation. • It can be used in a wide range of different heat distribution systems, as the heat pump is separated from the heat distribution system by means of an integral buffer cylinder. • The following components are integrated: cylinder charging pump, circulation pump, 3/2-way diverter valve, safety valve, electric emergency/auxiliary heater and the heat pump manager for controlling the system. The DHW cylinder and parallel buffer cylinder with circulation pump form part of the separate integral cylinder.

		WPL 09 ICS classic compact plus Set	WPL 09 IKCS classic compact plus Set	WPL 17 ICS classic compact plus Set	WPL 17 IKCS classic compact plus Set
Part number		**236728**	**236732**	**236729**	**236733**

Inverter



Set components		WPL 09 ICS classic compact plus Set	WPL 09 IKCS classic compact plus Set	WPL 17 ICS classic compact plus Set	WPL 17 IKCS classic compact plus Set
1	Type	WPL 09 ICS classic	WPL 09 IKCS classic	WPL 17 ICS classic	WPL 17 IKCS classic
	Qty	1	1	1	1
		Air source heat pump	Air source heat pump	Air source heat pump	Air source heat pump
	Page	212	216	212	216
2	Type	HSBC 200 L	HSBC 200 L	HSBC 200 L	HSBC 200 L
	Qty	1	1	1	1
		Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder
	Page	315	315	315	315

Further information about the Set components can be found under the respective product.

Inverter

WPL 19/24 I

WPL 19 I Set

Benefits

- The air source heat pump is suitable for heating older buildings
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Even at low outside temperatures, the enhanced vapour injection/enhanced saturated vapour injection of the heat pump achieves a high flow temperature
- Optimised for replacement of 13/18/23 E air source heat pumps that are installed indoors
- Because of the high flow temperature all year round, also suitable for modernisation projects and for DHW heating
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- Can be integrated into the home network and operated via a smartphone
- Low operating costs as mono mode DHW heating is possible
- Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors

Application • This air source heat pump with output-dependent control and inverter technology is installed indoors. Due to the low noise emissions, the appliance is also suitable for densely built-up areas. The heat pump can be used in modernisation projects as flow temperatures of up to 65 °C are available all year round for room heating and DHW heating.

Convenience features • Very quiet operation is ensured by the encapsulated refrigerant circuit and acoustically isolated compressor. The modulating fan and the wide gaps between the evaporator fins, which create low air resistance, also help to minimise the sound power level. • With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation is possible with the electric emergency/auxiliary heater. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel.

Efficiency • The heat pump delivers high flow temperatures all year round according to demand, as the combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures. This allows operation without an electric emergency/auxiliary heater. • The waste heat from the inverter is used to raise the return temperature, which increases the overall efficiency of the system. This is further aided by demand-dependent defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit.

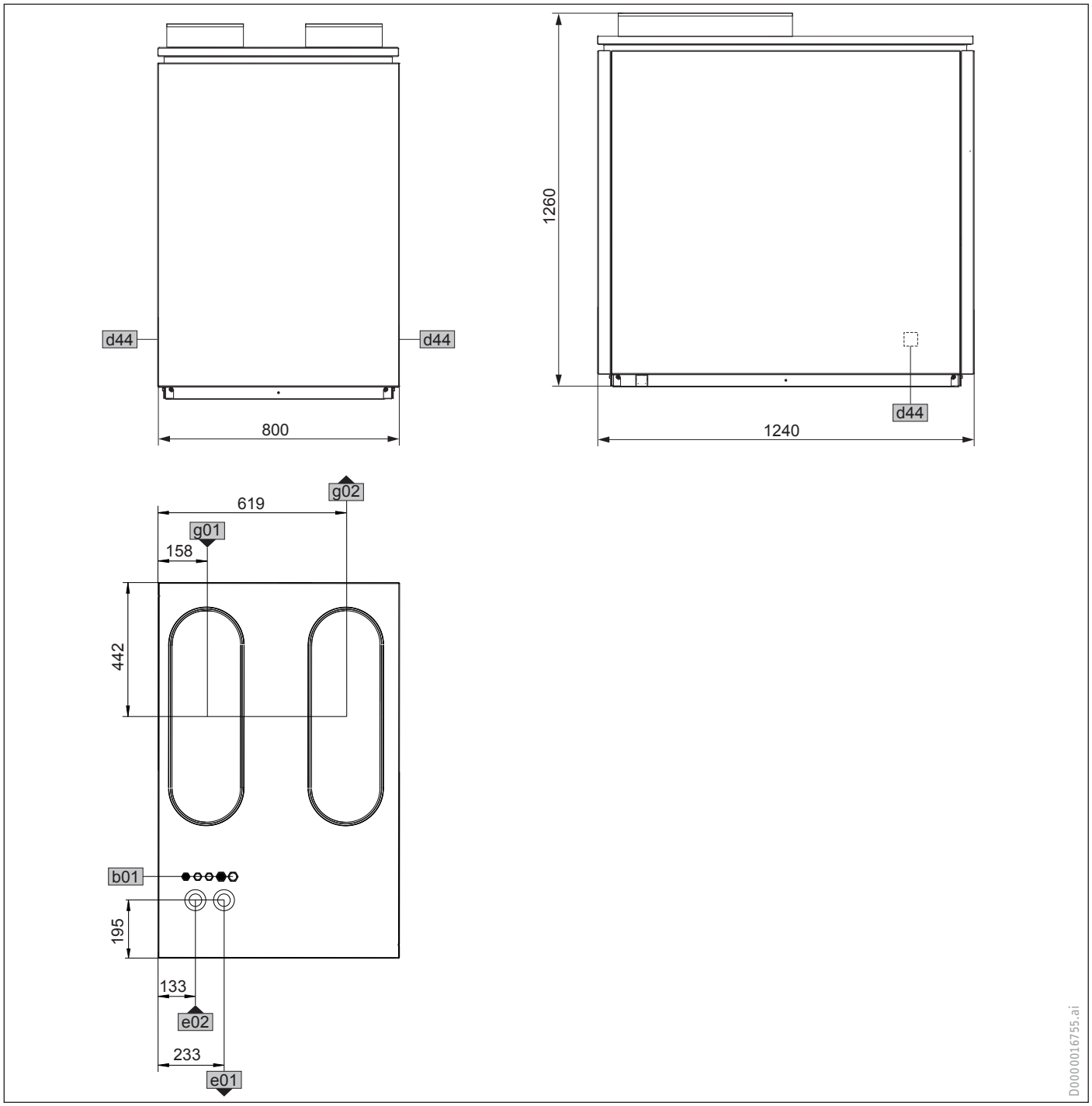
Installation • The heat pump, with integral anti-vibration mounts, is directly connected to the heating system.

		WPL 19 I Set	WPL 24 I Set
Part number		**235193**	**235194**
Specification			
Energy efficiency class, heat pump W35		A+++	A+++
Energy efficiency class, heat pump W55		A++	A++
Heating output at A7/W35 (EN 14511)	kW	6.70	7.41
Heating output at A2/W35 (EN 14511)	kW	7.41	9.04
Heating output at A-7/W35 (EN 14511)	kW	9.91	13.45
COP at A7/W35 (EN 14511)		4.99	4.72
COP at A2/W35 (EN 14511)		4.12	4.00
COP at A-7/W35 (EN 14511)		3.32	3.00
SCOP 35 °C (EN 14825)		4.44	4.45
Sound power level (EN 12102)	dB(A)	54	54
Min./max. application limits for heat source	°C	-20/40	-20/40
Max. application limit on the heating side	°C	65	65
Height	mm	1182	1182
Width	mm	800	800
Depth	mm	1240	1240

next page >

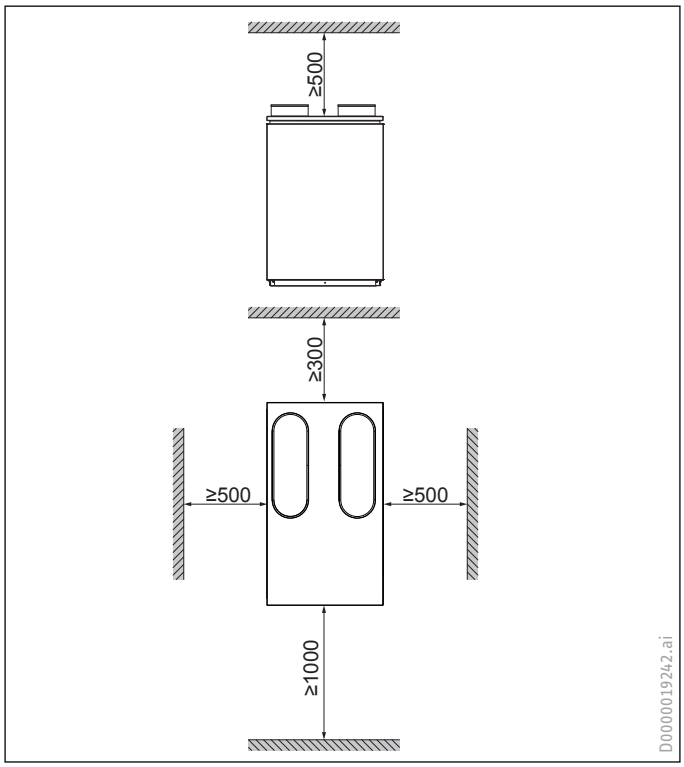
		WPL 19 I Set	WPL 24 I Set
Weight	kg	289	289
Weight (standard appliance)	kg	201	201
Refrigerant		R410A	R410A
SCOP 55 °C (EN 14825)	°C	3.64	3.53
Required accessories			
Part number		**233837**	**233837**
Type		AWG 560 H-SR	AWG 560 H-SR
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated
Part number		**234647**	**234647**
Type		LSWP 560-4 S	LSWP 560-4 S
Description		Thermally and sound insulated air hose	Thermally and sound insulated air hose
Recommended accessories			
Part number		**229336**	**229336**
Type		ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway
Part number		**231041**	**231041**
Type		AWG 560 L	AWG 560 L
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated
Part number		**232805**	**232805**
Type		HM Trend	HM Trend
Description		Hydraulic module	Hydraulic module
Part number		**232956**	**232956**
Type		AWG 560 H-GL	AWG 560 H-GL
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated
Part number		**233826**	**233826**
Type		HMS Trend	HMS Trend
Description		Hydraulic module	Hydraulic module
DHW cylinder			
Part number		**203801**	**203801**
Type		HSBC 300 cool	HSBC 300 cool
Description		Integral cylinder	Integral cylinder
Part number		**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder
Part number		**229981**	**229981**
Type		SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Part number		**233510**	**233510**
Type		HSBC 200	HSBC 200
Description		Integral cylinder	Integral cylinder
Part number		**234801**	**234801**
Type		HSBC 200 S	HSBC 200 S
Description		Integral cylinder	Integral cylinder

Wall outlets must be ordered separately and are available as accessories in various versions.
The air hoses required are available as accessories.



		WPL 19 I Set	WPL 24 I Set
b01 Entry electrical cables		•	•
d44 Outlet condensate drain		•	•
e01 Heating flow - diameter	mm	28	28
e02 Heating return - diameter	mm	28	28
g01 Air intake		•	•
g02 Air discharge		•	•

Minimum clearance diagram



WPL 19/24 IK

WPL 19 IK Set

Benefits

- The air source heat pump is suitable for heating older buildings
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Even at low outside temperatures, the enhanced vapour injection/enhanced saturated vapour injection of the heat pump achieves a high flow temperature
- Because of the high flow temperature all year round, also suitable for modernisation projects and for DHW heating
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- Low operating costs as mono mode DHW heating is possible
- Can be integrated into the home network and operated via a smartphone
- Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors

Application • This output-controlled air source heat pump with inverter technology is installed indoors and is also suitable for densely built-up areas due to its low noise emissions. Can be used for modernisation, since it provides a flow temperature of up to 65 °C all year round for heating operation and DHW heating.

Convenience features • Very quiet operation due to the encapsulated refrigerant circuit and acoustically isolated compressor. The modulating fan and the wide gaps between the evaporator fins, which create low air resistance, also help to minimise the sound power level. • With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation possible with emergency/auxiliary heater. • The metal casing is corrosion-protected. It is made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

Efficiency • High flow temperature all year round according to demand, as the combined enhanced vapour injection/ enhanced saturated vapour injection cools the scroll compressor at low outside temperatures. This allows operation without an auxiliary heater. • The waste heat from the inverter is used to raise the return temperature. In addition, the overall efficiency of the system is increased by on-demand defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit. • The hydrophilic coating on the fan nozzle prevents ice from forming, meaning that no electric heating is required.

Installation • The heat pump, with integral anti-vibration mounts, is directly connected to the heating system. • Quick corner installation thanks to the supplied compact air handling module WPIC with pre-installed air hoses on the air intake and discharge, controller and hydraulic components.

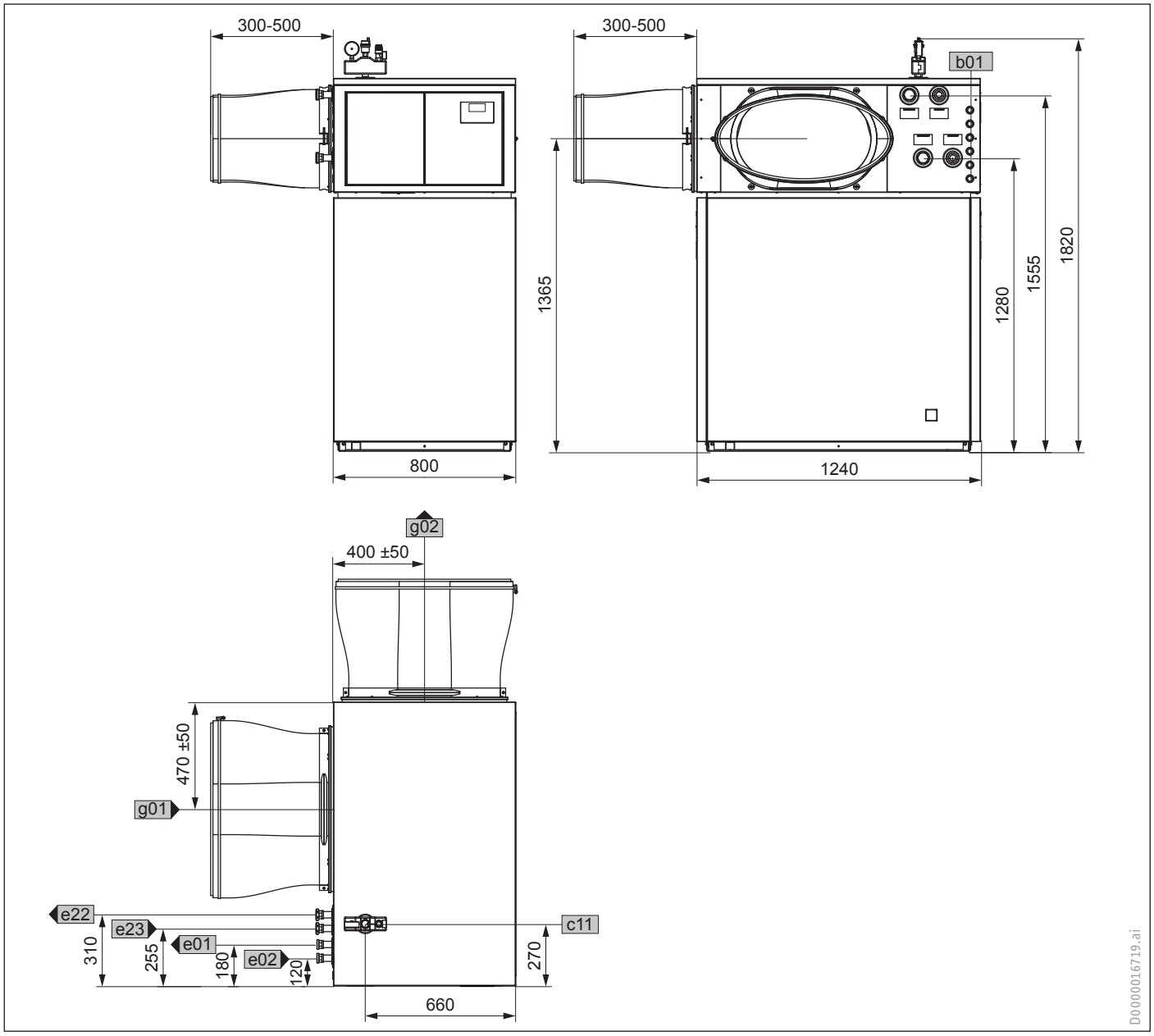
		WPL 19 IK Set	WPL 24 IK Set
Part number		**235878**	**235879**
Specification			
Energy efficiency class, heat pump W35		A+++	A+++
Energy efficiency class, heat pump W55		A++	A++
Heating output at A7/W35 (EN 14511)	kW	6.70	7.41
Heating output at A2/W35 (EN 14511)	kW	7.41	9.04
Heating output at A-7/W35 (EN 14511)	kW	9.91	13.45
COP at A7/W35 (EN 14511)		4.99	4.72
COP at A2/W35 (EN 14511)		4.12	4.00
COP at A-7/W35 (EN 14511)		3.32	3.00
SCOP 35 °C (EN 14825)		4.44	4.45
Sound power level (EN 12102)	dB(A)	52	51
Min./max. application limits for heat source	°C	-20/40	-20/40
Max. application limit on the heating side	°C	65	65
Height	mm	1820	1820
Width	mm	800	800
Depth	mm	1240	1240

next page >

		WPL 19 IK Set	WPL 24 IK Set
Weight	kg	373	373
Weight (standard appliance)	kg	201	201
Weight (compact air handling module)	kg	80	80
Refrigerant		R410A	R410A
SCOP 55 °C (EN 14825)	°C	3.64	3.53
Required accessories			
Part number		**233837**	**233837**
Type		AWG 560 H-SR	AWG 560 H-SR
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated
Recommended accessories			
Part number		**229336**	**229336**
Type		ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway
Part number		**231041**	**231041**
Type		AWG 560 L	AWG 560 L
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated
Part number		**232956**	**232956**
Type		AWG 560 H-GL	AWG 560 H-GL
Description		External wall outlet, thermally insulated	External wall outlet, thermally insulated
DHW cylinder			
Part number		**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder
Part number		**229981**	**229981**
Type		SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder
Part number		**238826**	**238826**
Type		HSBC 300 L cool	HSBC 300 L cool
Description		Integral cylinder	Integral cylinder

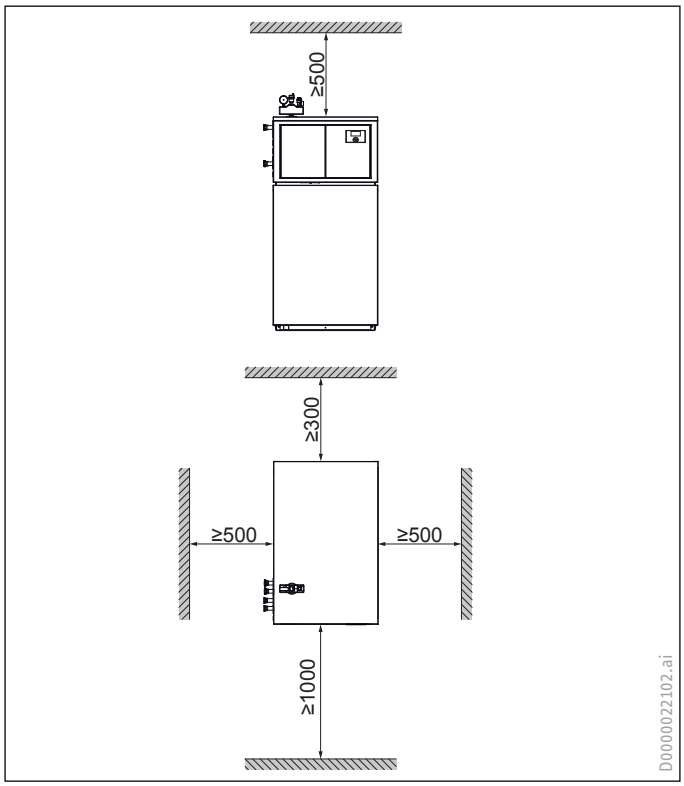
Standard delivery includes: air handling module WPIC

Wall outlets must be ordered separately and are available as accessories in various versions. Wall outlets must be ordered separately and are available as accessories in various versions. (Product: 235878, 235879)



		WPL 19 IK Set	WPL 24 IK Set
b01 Entry electrical cables		•	•
c11 Safety assembly		•	•
e01 Heating flow - male thread		G 1 1/4 A	G 1 1/4 A
e02 Heating return - male thread		G 1 1/4 A	G 1 1/4 A
e22 Cylinder flow - male thread		G 1 1/4 A	G 1 1/4 A
e23 Cylinder return - male thread		G 1 1/4 A	G 1 1/4 A
g01 Air intake		•	•
g02 Air discharge		•	•

Minimum clearance diagram



Inverter

6

Accessories
Accessories 232

ZSA

Benefits
- Quick-fit adaptor for air hoses
- Straightforward connection to the heat pump
- Standard delivery: quick-fit adaptor, fixing screws, hose clips

Description • The quick-fit adaptor made of EPS is used to install air hoses on the air connections of the unit.

ZSA 315

		ZSA 315
Part number		**236934**
Specification		
Length	mm	150.00
Version		Quick-fit adaptor

Standard delivery includes: quick-fit adaptor, fixing screws, hose clips for the internal and external hose.

AWG WP

Benefits
- Condensate run marks on the wall face are prevented by a wide drip edge on the frame
- Integral rodent guard prevents small animals and leaves getting in
- Good protection from weather and low pressure losses, thanks to optimised fin geometry

Description • The thermally insulated wall outlet is suitable for routing the air ducts of indoor air source heat pumps and integral systems. • The length can be adjusted to suit the wall thickness thanks to telescopic technology.

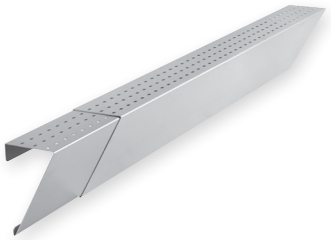
AWG 560 H-SR

		AWG 560 H-SR	AWG 560 V-SR	AWG 560 L	AWG 600 L	AWG 560 H-GL	AWG 560 V-GL
Part number		**233837**	**233838**	**231041**	**231044**	**232956**	**232957**
Specification							
Height	mm	490	894	477	647	490	894
Width	mm	897	483	878	649	897	483
Depth	mm	627	627	625	525	627	627
Nominal diameter	mm	560	560	560	560	560	560
Wall thickness	mm	280 - 500	280 - 500	280 - 500	260 - 400	280 - 500	280 - 500
Min. outlet aperture	mm	830x430	430x830	830x430	600x600	830x430	430x830
Max. air flow rate	m³/h	3500	3500	3500	3500	3500	3500
Colour		silver-metallic	silver-metallic	Aluminium, anodised	Aluminium, anodised	RAL 9006	RAL 9006
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel	Sheet steel	Sheet steel
Version		Horizontal weather grille painted in metallic silver	Vertical with grey painted weather grille	For light well version	For light well version	Horizontal with grey painted weather grille	Vertical with grey painted weather grille

next page >

		AWG 560 H-SR	AWG 560 V-SR	AWG 560 L	AWG 600 L	AWG 560 H-GL	AWG 560 V-GL
Required accessories							
Part number				**232342**			
Type				LLB AWG 560 L			
Description				Air deflector for light well grille			

LLB AWG



Benefits
› Quick and easy to install

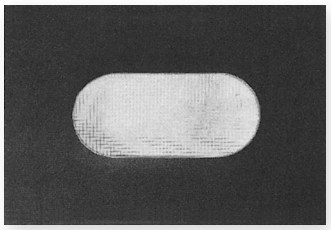
Description • The aluminium air deflector is installed in a light well to deflect the exhaust air from the building away from the external wall. This reduces the formation of moisture from condensation. • The width of the air deflector can be adjusted to the light well.

6

LLB AWG 315 L

		LLB AWG 315 L	LLB AWG 560 L
Part number		**232341**	**232342**
Specification			
Height	mm	128	128
Length	mm	900	1,500
Colour		Aluminium	Aluminium

SAPL



Description • The thermally insulated SAPL hose connecting plate is mounted on standard basement windows. • The standard delivery includes a collar and hose clips to join the hose to the hose connecting plate.

SAP-O DN 560

		SAP-O DN 560
Part number		**003478**
Specification		
Height	mm	780
Width	mm	1200
Air connection	mm	560

LSWP

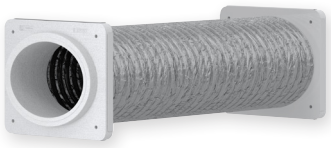
Benefits
- Good sound insulation thanks to a 50 mm layer of acoustic insulating material
- Prevents condensation forming on the outer cover

Description • The thermally and sound insulated flexible air hose is suitable for routing the outdoor and exhaust air to/from an air source heat pump installed indoors. • The outside is made of aluminium laminate and the inside of polypropylene cloth. The intermediate layer, made of mineral wool, provides sound and thermal insulation. The hose ends can be shaped into ovals for easier fitting.

LSWP 560-3 SG

		LSWP 560-3 SG	LSWP 560-4 S	LSWP 560-4 SG
Part number		**201721**	**234647**	**201619**
Specification				
Nominal diameter	mm	560	560	560
Length	mm	3000	4000	4000
Thermal insulation thickness	mm	50	50	50
Colour of air hose		Grey outer sheath	Aluminium-coloured outer sheath	Grey outer sheath

LSWP 315 SG Set



Benefits
- Flexible air hose with quick-fit adaptor
- For connection of outdoor and exhaust air with air source heat pumps
- Sound absorbent and thermal insulating covering
- Quick and straightforward installation

Description • This flexible air hose for outdoor and exhaust air ducting is heat and sound insulated. • Easy connection to the AWG or WPL thanks to the prefitted quick-fit adaptors. • The hose is covered with a sound absorbing, thermal insulation layer. The outside is made of aluminium laminate and the inside of polypropylene cloth. The intermediate layer, made of mineral wool, provides sound and thermal insulation. • A quick-fit adaptor made of EPS is ready mounted and sealed at both ends.

LSWP 315-2 SG Set

		LSWP 315-2 SG Set
Part number		**238565**
Specification		
Nominal diameter	mm	315
Length	mm	2000
Thermal insulation thickness	mm	50
Colour of air hose		grey

PK 10

Benefits
- Condensate pump with overheating protection and automatic restart
- For wall or ceiling mounting if the fall for the condensate drain is not sufficient
- Alarm contact as either N/C or N/O contact

Description • The condensate pump for indoor heat pumps and ventilation units has an integral condensate container. The appliance can be installed horizontally on the floor or on the wall. • The integral alarm contact can be used to activate an indicator lamp or warning tone, or to switch the connected main appliance. An additional float prevents the collecting vessel from overflowing. • Pressure hose and power cable are included in the standard delivery.

PK 10

		PK 10
Part number		**229286**
Specification		
Max. delivery volume	l/h	500
Max. delivery head	m	5
Height	mm	171
Width	mm	279
Depth	mm	130
Weight	kg	2
Electrical connection		1/N/PE~230 V
Power consumption	W	70

5 m pressure hose, power cable and alarm connection cable (Product: 229286)

ZVK-WPL I

Benefits
- Complete set for a heat pump located outdoors
- Colour: white

Description • The corrosion-protected sheet metal casing for indoor air source heat pumps is made of hot-dip galvanised and powder coated sheet steel.

ZVK WPL 13/18/23 I

		ZVK WPL 13/18/23 I
Part number		**074412**
Specification		
Colour		white

Ground source heat pumps – inverter 241

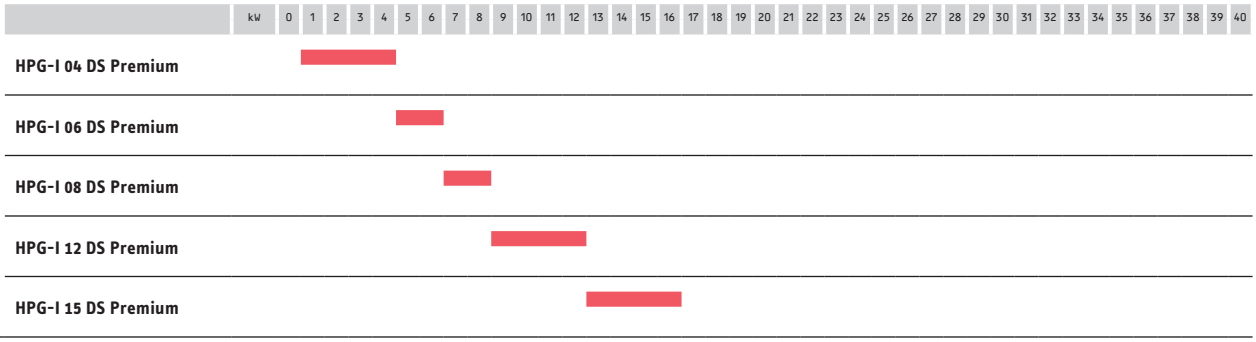
Ground source heat pumps – Fixspeed 271

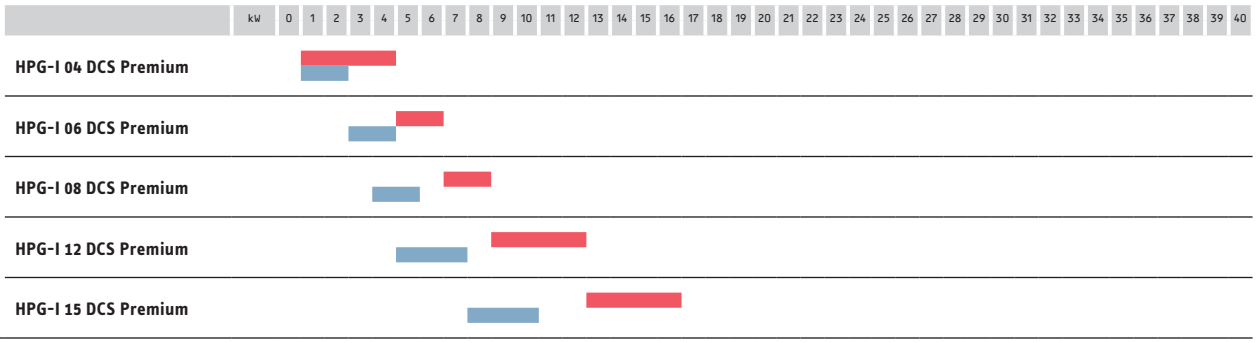
Accessories for ground source heat pumps 285

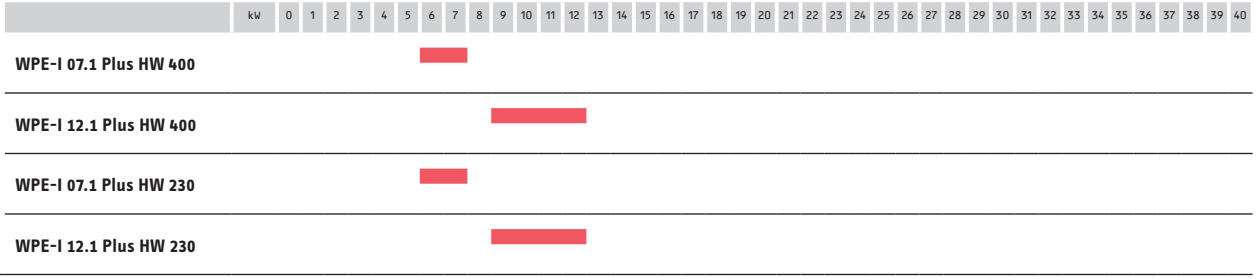
Application areas

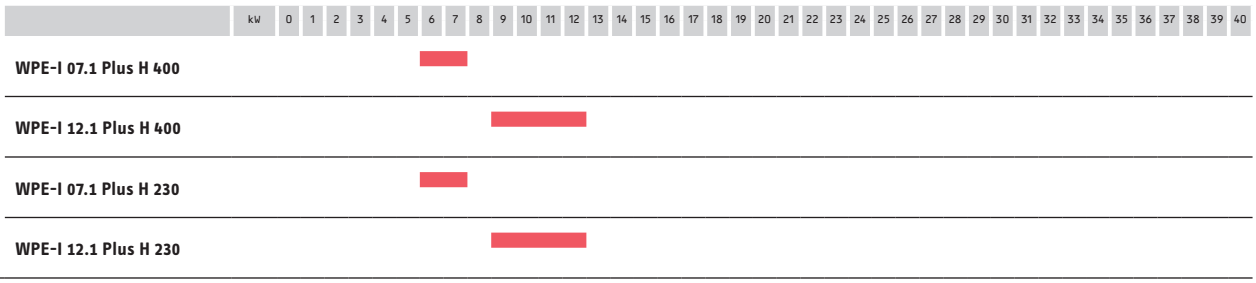
Heating

Cooling

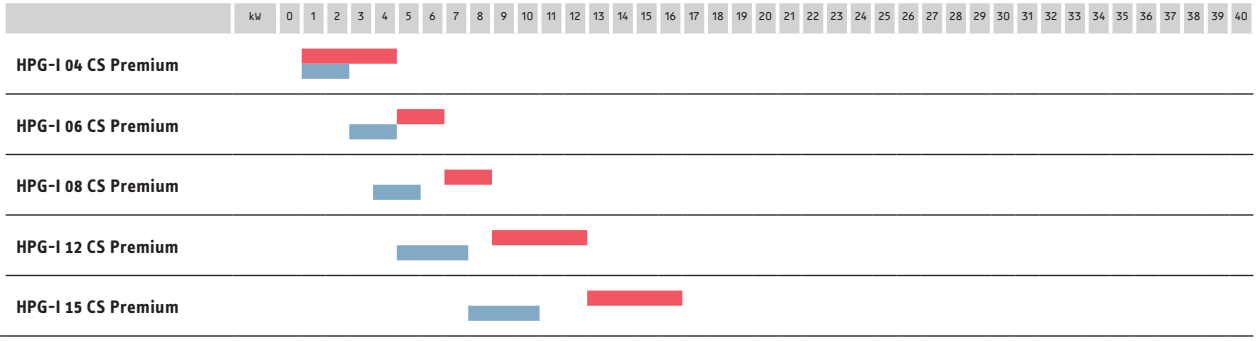


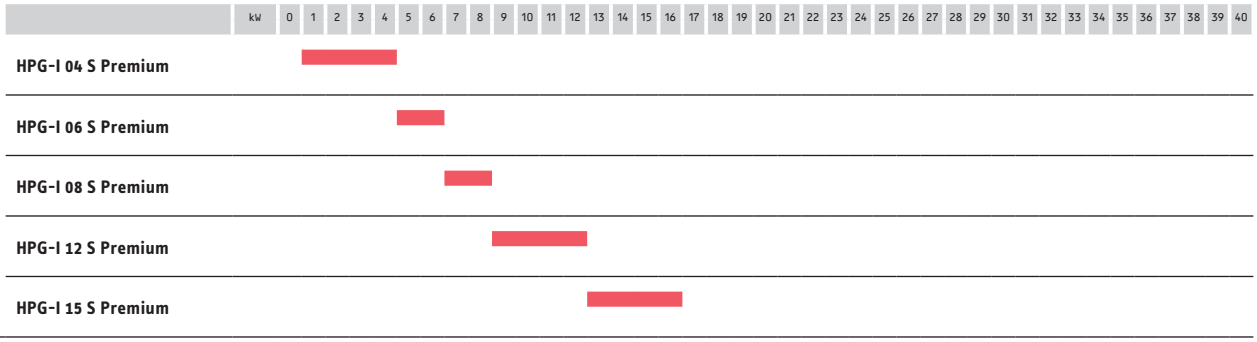


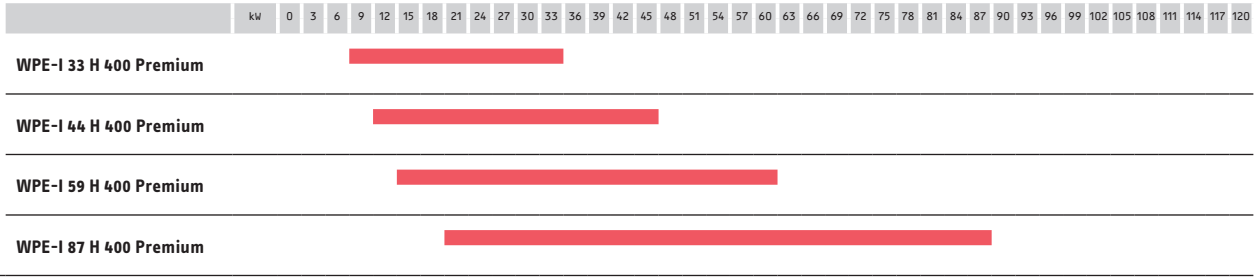




Application areas







Application areas

Inverter

HPG-I 04-15 DS Premium	242
HPG-I 04-15 DCS Premium	246
WPE-I 07.1-12.1 Plus HW (230)	250
WPE-I 07.1-12.1 Plus H (230)	252
HPG-I 04-15 CS Premium	254
HPG-I 04-15 S Premium	259
WPE-I 33-87 H 400 Premium	264

HPG-I 04-15 DS Premium

HPG-I 04 DS Premium

Benefits

- High hot water convenience and mono mode heating thanks to high flow temperatures of up to 75 °C
- Pressure monitoring in the heat source circuit with integral brine pressure switch
- Quick, space saving installation thanks to built-in DHW cylinder and high level of integration
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- Futureproof and eco-friendly refrigerant with high efficiency
- Easy to transport as the refrigerant circuit and cylinder module can be separated from one another and are fitted with integral carrying handles

Application • This compact ground source heat pump with output-dependent control and inverter technology is installed indoors. • The appliance is equipped with an integral DHW cylinder. • The DHW cylinder is built into the casing and ready for operation. • Can be used in mono mode to provide heating and DHW in new and modernised buildings thanks to demand-dependent flow temperatures all year round. The system is also suitable for apartment buildings, depending on the heat load of the building. • A high level of integration enables the heat pump to be installed directly, requiring a small installation area thanks to the compact design.

Convenience features • Heat pump operation is particularly quiet due to the encapsulated refrigerant circuit and acoustically isolated compressor. • The high flow temperature of up to 75 °C as a heating output is ensured by the consistent source temperature. • If the on-site heat pump controller is combined with the Internet Service Gateway, the system can be integrated into a smart home network and controlled via a mobile device. • Heat and electricity metering via integral refrigerant circuit data. • Control of the heating system is fully automatic and subject to the outside temperature. • One high efficiency circulation pump is built in for the brine side and one for the heating side. • Also integrated as standard are an electric emergency/auxiliary heater for mono energetic operation, a pasteurisation heat-up function, the diverter valve for DHW heating and a safety valve with drain pipe. • The refrigerant circuit works with the eco-friendly, futureproof refrigerant R454C, which has excellent properties in heat pump application. • The corrosion-protected casing is made from hot-dip galvanised, powder coated sheet steel.

Efficiency • Thanks to the energy saving inverter technology and integral recuperator, the heat pump works extremely efficiently all year round.

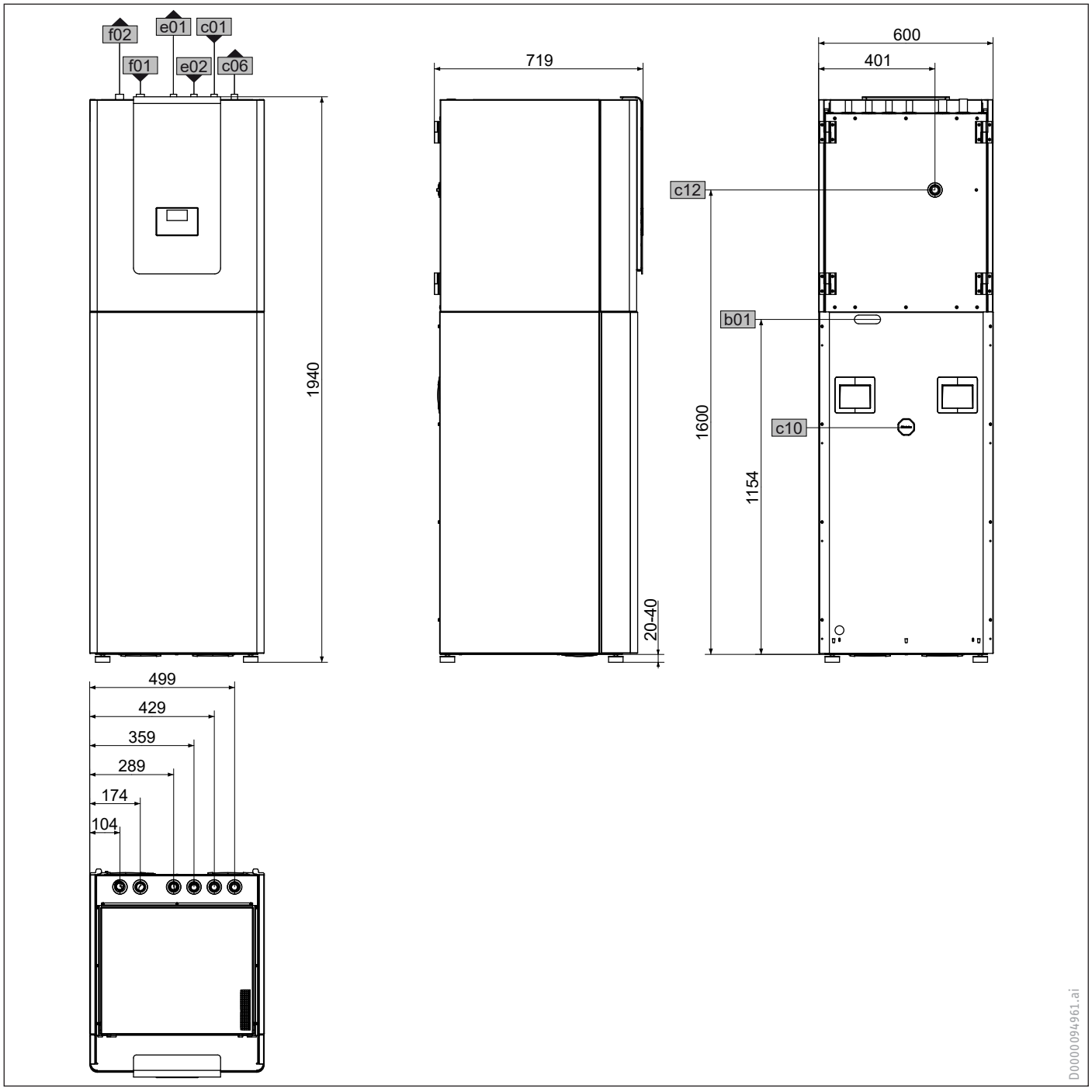
Installation • No special safety precautions are required when siting. The installation room must be of a minimum size. • Straightforward to install as the refrigerant circuit can be easily separated from the cylinder module. Both parts also have integral carrying handles. • The internal pressure hoses enable simple direct hydraulic connection to the heating and source side.

		HPG-I 04 DS Premium	HPG-I 06 DS Premium	HPG-I 08 DS Premium	HPG-I 12 DS Premium	HPG-I 15 DS Premium
Part number		**202622**	**202623**	**202624**	**202625**	**202626**
Specification						
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++	A+++	A+++	A+++
Heating output at B0/W35 (EN 14511)	kW	1,96	2,37	2,78	4,19	5,18
Cylinder volume V	l	175	175	175	162	162
Heating output at B0/W35 (min./max.)	kW	1,0-4,2	1,0-6,6	1,0-7,6	2,1-12,7	2,1-14,8
COP at B0/W35 (EN 14511)		4.60	4.60	4.67	5.01	4.86
SCOP 35 °C (EN 14825)		5.07	5.20	5.12	5.59	5.44
Sound power level (EN 12102)	dB(A)	43-46	43-48	43-48	43-49	43-49
Height	mm	1937	1937	1937	1937	1937
Width	mm	600	600	600	600	600
Depth	mm	703	703	703	703	703
Nominal capacity	l	175	175	175	162	162
Weight	kg	265	265	265	275	275
Rated voltage, compressor	V	230	230	230	230	230
Rated voltage, emergency/auxiliary heater	V	230	230	230	230	230

next page >

		HPG-I 04 DS Premium	HPG-I 06 DS Premium	HPG-I 08 DS Premium	HPG-I 12 DS Premium	HPG-I 15 DS Premium
Refrigerant		R454C	R454C	R454C	R454C	R454C
Surface area, heat exchanger	m²	2.10	2.10	2.10	3.50	3.50
Energy efficiency class, DHW heating with load profile XL		A	A	A	A	A
Recommended accessories						
Part number		**161696**	**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**229336**	**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**233307**	**233307**	**233307**	**233307**	**233307**
Type		WPSF	WPSF	WPSF	WPSF	WPSF
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit

Inverter


f02
e01
c01
f01
e02
c06
1940
719
20-40
600
401
c12
b01
c10
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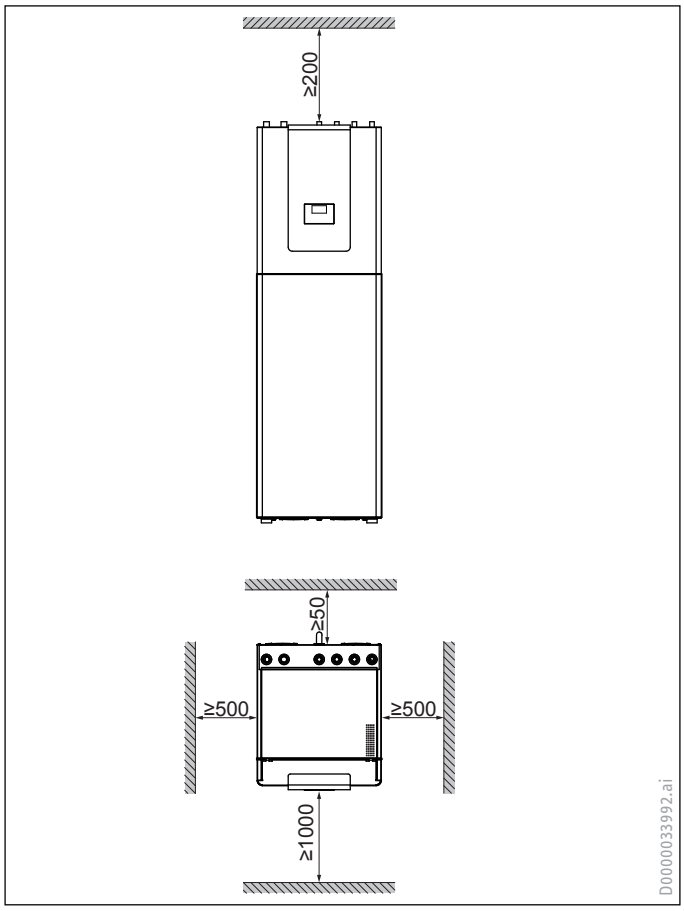
		HPG-I 04 DS Premium	HPG-I 06 DS Premium	HPG-I 08 DS Premium	HPG-I 12 DS Premium	HPG-I 15 DS Premium
b01 Entry electrical cables		•	•	•	•	•
c01 Cold water inlet - diameter	mm	22	22	22	22	22
c06 DHW outlet - diameter	mm	22	22	22	22	22
c10 DHW circulation		•	•	•	•	•
c12 Safety valve drain		•	•	•	•	•
e01 Heating flow - diameter	mm	22	22	22	22	22
e02 Heating return - diameter	mm	22	22	22	22	22
f01 Heat source flow - diameter	mm	28	28	28	28	28
f02 Heat source return - diameter	mm	28	28	28	28	28

Minimum clearance diagram



HPG-I 04-15 DCS Premium

HPG-I 04 DCS Premium

Benefits

- High hot water convenience and mono mode heating thanks to high flow temperatures of up to 75 °C
- Pressure monitoring in the heat source circuit with integral brine pressure switch
- Passive cooling function with minimal operating costs via a geothermal probe system
- Quick, space saving installation thanks to built-in DHW cylinder and high level of integration
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- Futureproof and eco-friendly refrigerant with high efficiency
- Easy to transport as the refrigerant circuit and cylinder module can be separated from one another and are fitted with integral carrying handles

Application • This compact ground source heat pump with output-dependent control and inverter technology is installed indoors. It can be installed directly thanks to the high level of integration. • The DHW cylinder is built into the casing and ready for operation, as is the heat exchanger for energy efficient passive cooling via an area heating system. • Can be used in mono mode for heating and DHW operation in both new and modernised buildings thanks to high flow temperatures. • The system is also suitable for apartment buildings, depending on the heat load of the building. • Does not take up much space thanks to small installation area.

Convenience features • Very quiet operation is ensured by the encapsulated refrigerant circuit and acoustically isolated compressor. • The high flow temperature of up to 75 °C is ensured as a heating output all year round thanks to the consistent source temperature. • The integral heat pump controller ensures fully automatic control of the heating system regardless of the outside temperature. • The heat pump can be connected to the Internet Service Gateway and controlled via the home network or a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • One high efficiency circulation pump is built in for the brine side and one for the heating side. • Electric emergency/auxiliary heater for mono energetic operation and pasteurisation. • Diverter valve for DHW heating and safety valve with drain pipe. • The refrigerant circuit works with the eco-friendly, futureproof refrigerant R454C, which has excellent properties in heat pump application.

Efficiency • Thanks to the energy saving inverter technology and integral recuperator, the heat pump works very efficiently all year round.

Installation • No special safety precautions are required when siting. The installation room must be of a minimum size. • The supplied pressure hoses enable direct hydraulic connection to the heating side and source side. • The corrosion-protected casing is made from hot-dip galvanised, powder coated sheet steel. • To facilitate installation, the refrigerant circuit can be easily separated from the cylinder module, and both parts have integral carrying handles.

		HPG-I 04 DCS Premium	HPG-I 06 DCS Premium	HPG-I 08 DCS Premium	HPG-I 12 DCS Premium	HPG-I 15 DCS Premium
Part number		**202632**	**202633**	**202634**	**202635**	**202636**
Specification						
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++	A+++	A+++	A+++
Heating output at B0/W35 (EN 14511)	kW	1,96	2,37	2,78	4,19	5,18
Cylinder volume V	l	175	175	175	162	162
Heating output at B0/W35 (min./max.)	kW	1,0-4,2	1,0-6,6	1,0-7,6	2,1-12,7	2,1-14,8
COP at B0/W35 (EN 14511)		4.60	4.60	4.67	5.01	4.86
Cooling capacity at B15/W23	kW	2.5	3	4	6	8
SCOP 35 °C (EN 14825)		5.07	5.20	5.12	5.59	5.44
Sound power level (EN 12102)	dB(A)	43-46	43-48	43-48	43-49	43-49
Max. application limit on the heating side	°C	75	75	75	75	75
Height	mm	1937	1937	1937	1937	1937
Width	mm	600	600	600	600	600

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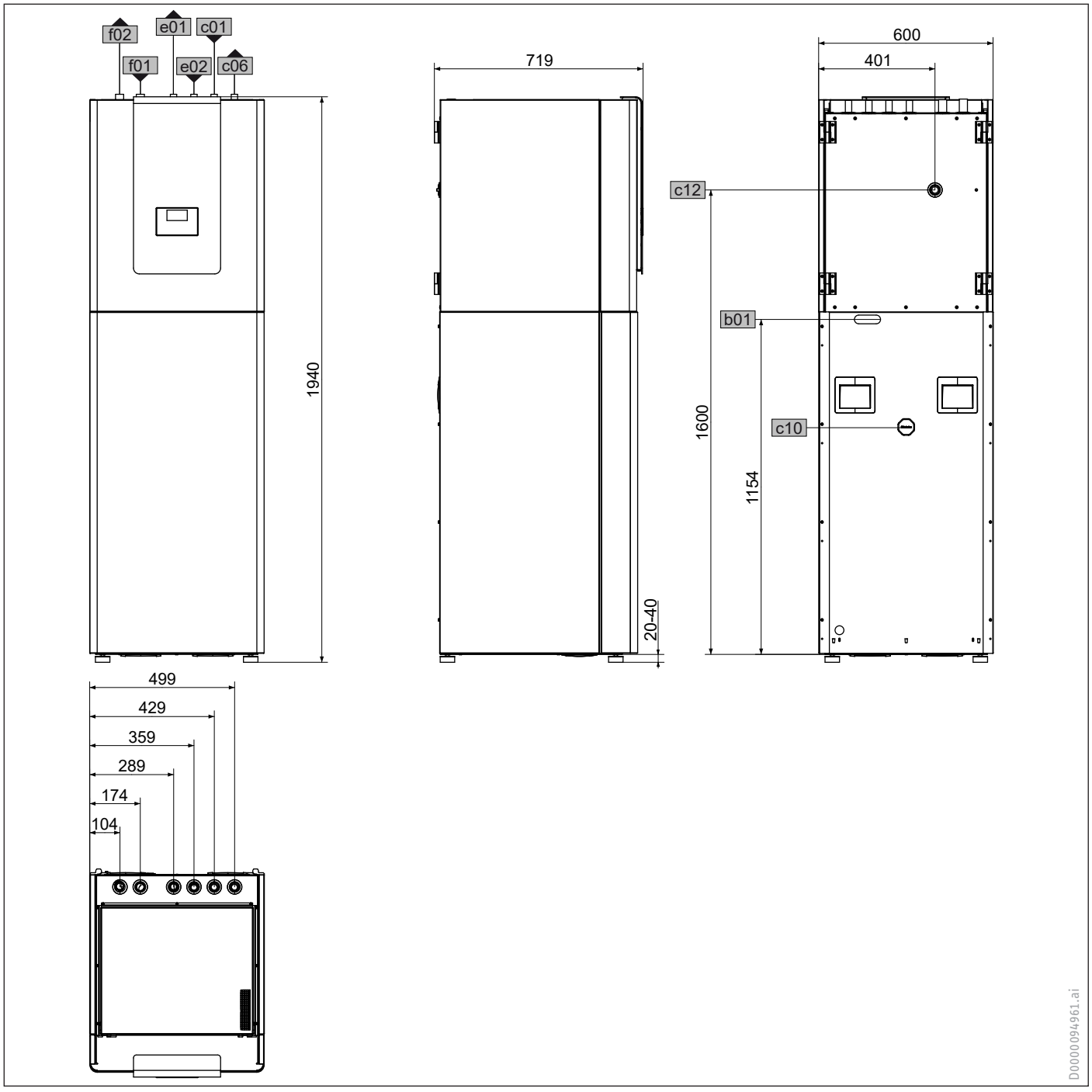
		HPG-I 04 DCS Premium	HPG-I 06 DCS Premium	HPG-I 08 DCS Premium	HPG-I 12 DCS Premium	HPG-I 15 DCS Premium
Depth	mm	703	703	703	703	703
Nominal capacity	l	175	175	175	162	162
Weight	kg	265	265	265	275	275
Rated voltage, compressor	V	230	230	230	230	230
Rated voltage, emergency/auxiliary heater	V	230	230	230	230	230
Refrigerant		R454C	R454C	R454C	R454C	R454C
Surface area, heat exchanger	m²	2.10	2.10	2.10	3.50	3.50
Energy efficiency class, DHW heating with load profile XL		A	A	A	A	A
Recommended accessories						
Part number		**161696**	**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**229336**	**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**233307**	**233307**	**233307**	**233307**	**233307**
Type		WPSF	WPSF	WPSF	WPSF	WPSF
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit

Inverter


f02
e01
c01
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c06
1940
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20-40
600
401
c12
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c10
1600
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499
429
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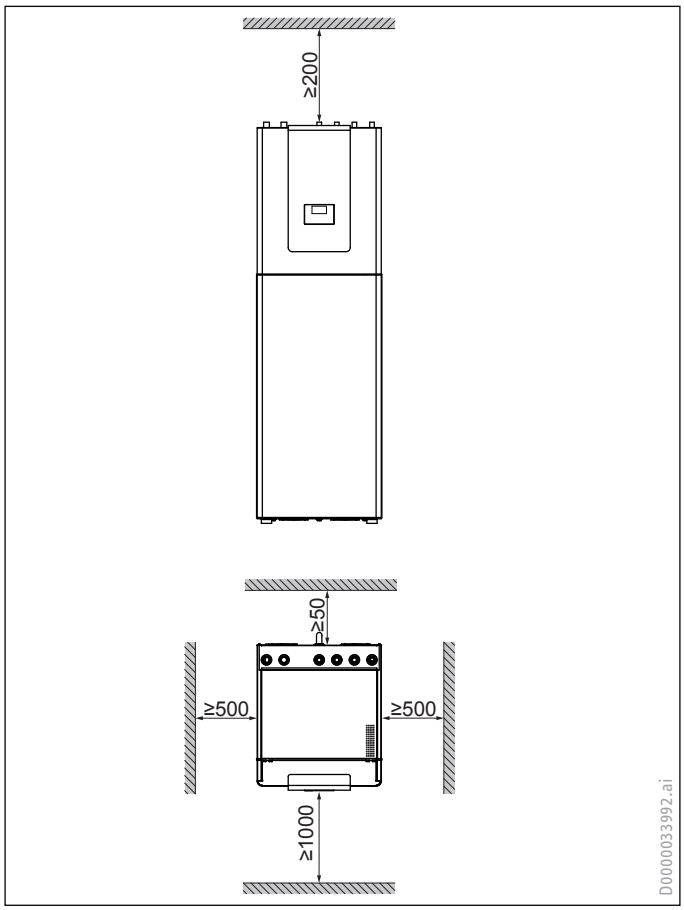
		HPG-I 04 DCS Premium	HPG-I 06 DCS Premium	HPG-I 08 DCS Premium	HPG-I 12 DCS Premium	HPG-I 15 DCS Premium
b01 Entry electrical cables		•	•	•	•	•
c01 Cold water inlet - diameter	mm	22	22	22	22	22
c06 DHW outlet - diameter	mm	22	22	22	22	22
c10 DHW circulation		•	•	•	•	•
c12 Safety valve drain		•	•	•	•	•
e01 Heating flow - diameter	mm	22	22	22	22	22
e02 Heating return - diameter	mm	22	22	22	22	22
f01 Heat source flow - diameter	mm	28	28	28	28	28
f02 Heat source return - diameter	mm	28	28	28	28	28

Minimum clearance diagram



WPE-I 07.1-12.1 Plus HW (230)

WPE-I 07.1 Plus HW 400

Benefits

- Ground source heat pump with inverter technology installed indoors for heating and hot water
- Natural, eco-friendly and futureproof refrigerant R290
- Trouble-free operation with VDE-tested safety features
- Integral low-maintenance stainless steel DHW cylinder
- Active or passive cooling possible with additional components
- Low space requirement in the installation room due to integral safety valves, circulation pumps for brine and heating, diverter valve
- Optimisation according to dynamic electricity tariffs is possible
- Suitable for modernisation due to 70 °C flow temperature
- Fast and correct remote maintenance thanks to integration into Servicewelt

Application • This ground source heat pump with inverter technology and integral DHW cylinder is suitable for heating and optional cooling of family houses as well as for DHW heating. • Thanks to the high flow temperatures all year round, the heat pump can be used in both new build and modernisation. • The system uses the natural and futureproof refrigerant R290 for optimum environmental compatibility. • The heat pump can also be used for cooling with additional external components.

Convenience features • The heat pump in a design casing is installed indoors. • The low space requirement is achieved by the high level of integration: inside the compact casing, the unit is equipped as standard with a controller and hydraulic components such as a diverter valve, circulation pumps (source and sink), electric emergency/auxiliary heater and safety valves (source and sink). Also integrated is a low-maintenance stainless steel DHW cylinder. • Intuitive operation via the easy-to-read colour touchscreen. Control with mobile devices via the MyStiebel app is also possible. • The heat pump is very quiet in operation as the refrigerant circuit is mounted on an anti-vibration base plate. This minimises the transfer of structure-borne sound to the building. • Active cooling is possible through external circuit reversal; for passive cooling an additional external plate heat exchanger is required. • The heat pump can be operated without a buffer cylinder.

Efficiency • The inverter technology and variable speed circulation pumps ensure high efficiency and low subsequent costs. • Optimisation using dynamic electricity tariffs is possible.

Safety • The sophisticated safety features require only one vent pipe to the outside, despite the use of R290. The safety fan is already integrated into the heat pump. The core hole of 80 mm can be drilled by a qualified contractor without specialised knowledge. • An accessory set with flexible pipe and wall outlet is available for simple connection of the heat pump to the vent pipe.

Installation • The heat pump is easy to transport to the installation site due to its low weight and ergonomic design. • Thanks to the sophisticated safety features, only one air duct to the outside is required. No additional electronics or cables are required. • The system's high level of integration means that installation is quick and easy.

		WPE-I 07.1 Plus HW 400	WPE-I 12.1 Plus HW 400	WPE-I 07.1 Plus HW 230	WPE-I 12.1 Plus HW 230
		NEW	NEW	NEW	NEW
Part number		**207180**	**207181**	**207185**	**207186**
Specification					
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++	A+++	A+++
Heating output at B0/W35 (EN 14511)	kW	3,36	6,2	3,36	6,2
Heating output at B0/W35 (min./max.)	kW	1,4/7,0	2,7/11,6	1,4/7,0	2,7/11,6
COP at B0/W35 (EN 14511)		4.62	4.87	4.62	4.87
SCOP 35 °C (EN 14825)		5.21	5.40	5.21	5.40
Sound power level (EN 12102)	dB(A)	37	40	37	40
Height	mm	1863	1863	1863	1863
Width	mm	600	600	600	600
Depth	mm	700	700	700	700
Nominal capacity	l	184	184	175	175
Weight	kg	156	172	156	172

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		WPE-I 07.1 Plus HW 400	WPE-I 12.1 Plus HW 400	WPE-I 07.1 Plus HW 230	WPE-I 12.1 Plus HW 230
Rated voltage, compressor	V	230	400	230	400
Rated voltage, emergency/auxiliary heater	V	400	400	400	400
Surface area, heat exchanger	m²	1.83	1.83	1.83	1.83
Energy efficiency class, DHW heating with load profile XL		A+	A+	A+	A+
Recommended accessories					
Part number		**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**207742**	**207742**	**207742**	**207742**
Type		AHP-PH	AHP-PH	AHP-PH	AHP-PH
Description		Pipe set for the integration of external heat meters with spacing of 130 mm.	Pipe set for the integration of external heat meters with spacing of 130 mm.	Pipe set for the integration of external heat meters with spacing of 130 mm.	Pipe set for the integration of external heat meters with spacing of 130 mm.
Part number		**207743**	**207743**	**207743**	**207743**
Type		AWG 80	AWG 80	AWG 80	AWG 80
Description		Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.	Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.	Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.	Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.
Part number		**207744**	**207744**	**207744**	**207744**
Type		AHP-TC	AHP-TC	AHP-TC	AHP-TC
Description		Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.	Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.	Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.	Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.
Part number		**229336**	**229336**		
Type		ISG web	ISG web		
Description		Internet Service Gateway	Internet Service Gateway		
Part number		**233307**	**233307**		
Type		WPSF	WPSF		
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit		

WPE-I 07.1-12.1 Plus H (230)

WPE-I 07.1 Plus H 400

Benefits

- Ground source heat pump with inverter technology installed indoors for heating and hot water
- Natural, futureproof and eco-friendly refrigerant R290
- Trouble-free operation with VDE-tested safety features
- Cascade operation with up to six heat pumps if required
- Low space requirement in the installation room thanks to integral safety valves, circulation pumps for brine and heating, diverter valve
- Active or passive cooling possible with additional components
- Optimisation according to dynamic electricity tariffs is possible
- Also suitable for modernisation thanks to 70 °C flow temperature
- Fast and correct remote maintenance thanks to integration into Servicewelt

Application • This ground source heat pump with inverter technology is suitable for heating and optional cooling of family houses as well as for DHW heating. • Thanks to the high flow temperatures all year round, the heat pump can be used in both new build and modernisation. • The system uses the natural and futureproof refrigerant R290 for optimum environmental compatibility. • The heat pump can also be used for cooling with additional external components. Cascade operation is possible with up to 6 appliances.

Convenience features • The heat pump in a design casing is installed indoors. • The low space requirement is achieved by the high level of integration: inside the compact casing, the unit is equipped as standard with a controller and hydraulic components such as a diverter valve, circulation pumps (source and sink), electric emergency/auxiliary heater and safety valves (source and sink). • Intuitive operation via the easy-to-read colour touchscreen. Control with mobile devices via the MyStiebel app is also possible. • The heat pump is very quiet in operation as the refrigerant circuit is mounted on an anti-vibration base plate. This minimises the transfer of structure-borne sound to the building. • Active cooling is possible through external circuit reversal; for passive cooling an additional external plate heat exchanger is required. • The heat pump can be operated without a buffer cylinder.

Efficiency • The inverter technology and variable speed circulation pumps ensure high efficiency and low subsequent costs. • Optimisation using dynamic electricity tariffs is possible.

Safety • The sophisticated safety features require only one vent pipe to the outside, despite the use of R290. The safety fan is already integrated into the heat pump. The core hole of 80 mm can be drilled by a qualified contractor without specialised knowledge. • An accessory set with flexible pipe and wall outlet is available for simple connection of the heat pump to the vent pipe.

Installation • The heat pump is easy to transport to the installation site due to its low weight and ergonomic design. • Thanks to the sophisticated safety features, only one air duct to the outside is required. No additional electronics or cables are required. • The system's high level of integration means that installation is quick and easy.

		WPE-I 07.1 Plus H 400	WPE-I 12.1 Plus H 400	WPE-I 07.1 Plus H 230	WPE-I 12.1 Plus H 230
		NEW	NEW	NEW	NEW
Part number		**207177**	**207178**	**207183**	**207184**
Specification					
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++	A+++	A+++
Heating output at B0/W35 (EN 14511)	kW	3,36	6,20	3,36	6,20
Heating output at B0/W35 (min./max.)	kW	1,4/7,0	2,7/11,6	1,4/7,0	2,7/11,6
COP at B0/W35 (EN 14511)		4.62	4.87	4.62	4.87
SCOP 35 °C (EN 14825)		5.21	5.40	5.21	5.40
Sound power level (EN 12102)	dB(A)	38	40	38	40
Height	mm	1450	1450	1450	1450
Width	mm	600	600	600	600
Depth	mm	700	700	700	700
Weight	kg	111	132	111	132
Rated voltage, compressor	V	230	400	230	400

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		WPE-I 07.1 Plus H 400	WPE-I 12.1 Plus H 400	WPE-I 07.1 Plus H 230	WPE-I 12.1 Plus H 230
Rated voltage, emergency/auxiliary heater	V	400	400	400	400
Refrigerant		R290	R290	R290	R290
Connection, heating side		28 mm	28 mm		28 mm
Connection, heat source side		28 mm	28 mm		28 mm
Recommended accessories					
Part number		**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**207742**	**207742**	**207742**	**207742**
Type		AHP-PH	AHP-PH	AHP-PH	AHP-PH
Description		Pipe set for the integration of external heat meters with spacing of 130 mm.	Pipe set for the integration of external heat meters with spacing of 130 mm.	Pipe set for the integration of external heat meters with spacing of 130 mm.	Pipe set for the integration of external heat meters with spacing of 130 mm.
Part number		**207743**	**207743**	**207743**	**207743**
Type		AWG 80	AWG 80	AWG 80	AWG 80
Description		Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.	Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.	Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.	Accessory set consisting of DN80 wall outlet for external walls up to 550 mm thick, weather grille, rodent guard, check valve and two 5 m DN80 aluminium flexible pipes. Ideal for extract air ducts of ground source heat pumps smaller than 20 kW with natural refrigerant.
Part number		**207744**	**207744**	**207744**	**207744**
Type		AHP-TC	AHP-TC	AHP-TC	AHP-TC
Description		Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.	Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.	Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.	Design panel that can be attached to the top of the ground source heat pump using magnetic fixings.
Part number		**229336**	**229336**		
Type		ISG web	ISG web		
Description		Internet Service Gateway	Internet Service Gateway		
Part number		**233307**	**233307**	**233307**	
Type		WPSF	WPSF	WPSF	
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	
DHW cylinder					
Part number			**221360**		**221360**
Type			SBB 301 WP		SBB 301 WP
Description			DHW cylinder		DHW cylinder
Part number		**229981**	**229981**	**229981**	**229981**
Type		SBS 801 W	SBS 801 W	SBS 801 W	SBS 801 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder

HPG-I 04-15 CS Premium

HPG-I 04 CS Premium

Benefits

- Easy and time saving installation with high level of integration
- High hot water convenience and mono mode heating thanks to high flow temperatures of up to 75 °C
- Pressure monitoring in the heat source circuit with integral brine pressure switch
- Passive cooling function with minimal operating costs via a geothermal probe system
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- Futureproof and eco-friendly refrigerant with high efficiency

Application • This ground source heat pump with output-dependent control and inverter technology is installed indoors. The appliance requires little space thanks to the high level of integration. • The additional, integral heat exchanger ensures energy efficient passive cooling via an area heating system. • It can be used in mono mode for heating and DHW operation. • The heat pump is suitable for both new build and modernisation due to the high flow temperatures. • The heat pump can also be used for apartment buildings, depending on the heat load of the building.

Convenience features • Quiet operation thanks to encapsulated refrigerant circuit and acoustically isolated compressor. • The consistent source temperature ensures a constant heating output with high flow temperatures of up to 75 °C all year round. • The integral heat pump controller ensures fully automatic control of the heating system depending on the outside temperature. • In combination with the optional Internet Service Gateway, the system can be controlled in the home network or with a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • One high efficiency circulation pump and one expansion vessel are provided for the brine side, and the same for the heating side. • Integrated as standard are an electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and a safety valve with drain pipe. • The refrigerant circuit works with the eco-friendly and futureproof refrigerant R454C whose properties are optimised for use in heat pumps. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel.

Efficiency • The inverter and built-in recuperator ensure optimised heat pump operation and therefore maximum efficiency all year round.

Installation • Due to the integrated safety concept, no special measures are necessary during installation. Only a minimum room size must be ensured. • Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. • For easy installation, the hydraulic connections are equipped with quick-release fittings and are thermally insulated. Carrying handles on the back panel facilitate transport.

		HPG-I 04 CS Premium	HPG-I 06 CS Premium	HPG-I 08 CS Premium	HPG-I 12 CS Premium	HPG-I 15 CS Premium
Part number		**202627**	**202628**	**202629**	**202630**	**202631**
Specification						
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++	A+++	A+++	A+++
Energy efficiency class, composite system (heat pump + controller) W55		A+++	A+++	A+++	A+++	A+++
Heating output at B0/W35 (EN 14511)	kW	1,96	2,37	2,78	4,19	5,18
Heating output at B0/W35 (min./max.)	kW	1,0-4,2	1,0-6,6	1,0-7,6	2,1-12,7	2,1-14,8
COP at B0/W35 (EN 14511)		4.60	4.60	4.67	5.01	4.86
Cooling capacity at B15/W23	kW		3	4		
SCOP 35 °C (EN 14825)		5.07	5.20	5.12	5.59	5.44
Sound power level (EN 12102)	dB(A)	38-40	38-43	38-45	39-46	39-47
Max. application limit on the heating side	°C	75	75	75	75	75
Height	mm	1369	1369	1369	1369	1369
Width	mm	598	598	598	598	598
Depth	mm	658	658	658	695	658
Weight	kg	180	180	180	190	190
Rated voltage, compressor	V	230	230	230	230	230

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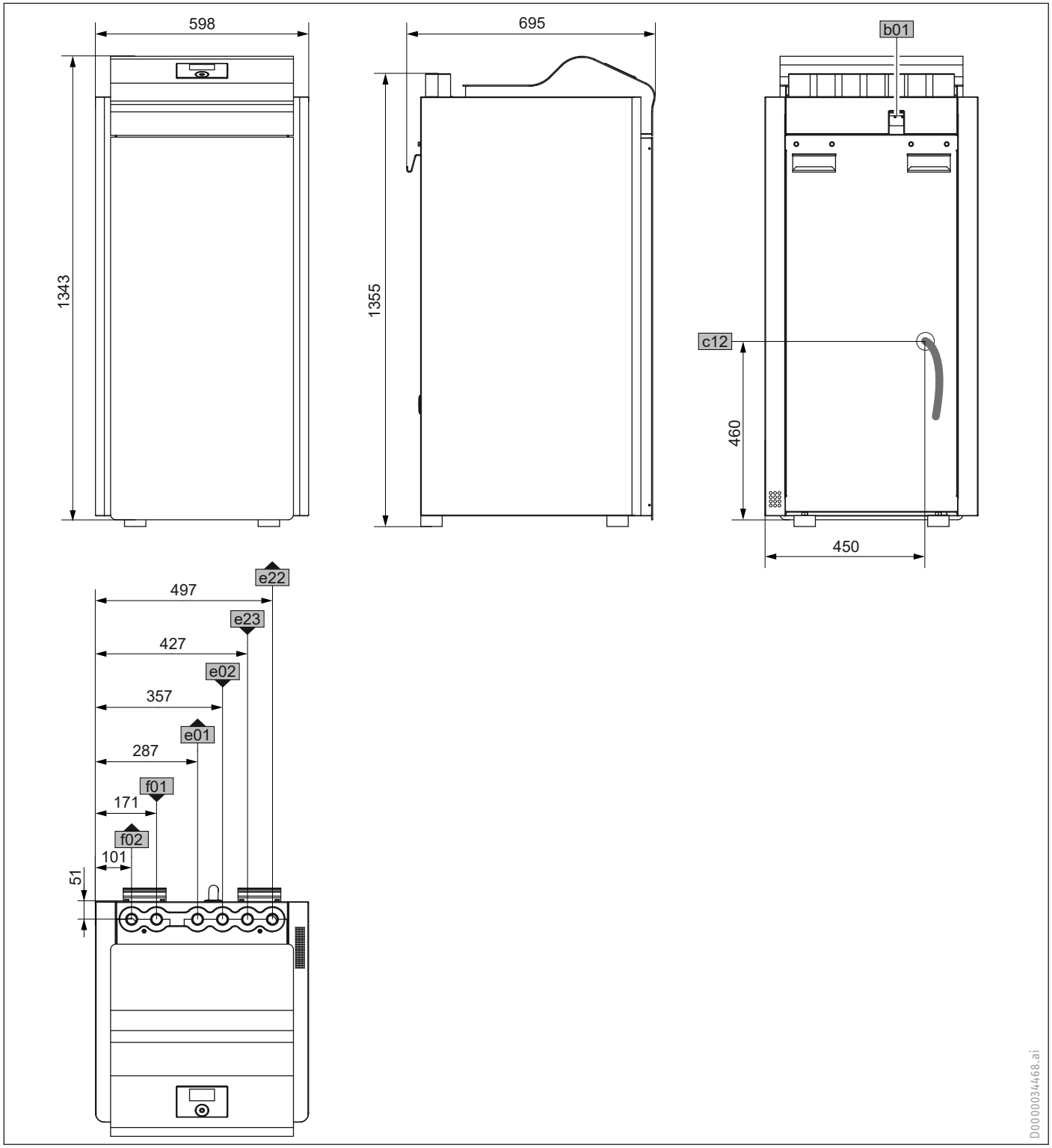
		HPG-I 04 CS Premium	HPG-I 06 CS Premium	HPG-I 08 CS Premium	HPG-I 12 CS Premium	HPG-I 15 CS Premium
Rated voltage, emergency/auxiliary heater	V	230	230	230	230	230
Refrigerant		R454C	R454C	R454C	R454C	R454C
Connection, heating side		28 mm	28 mm	28 mm	28 mm	28 mm
Connection, heat source side		28 mm plug-in connection	28 mm plug-in connection	28 mm plug-in connection	28 mm plug-in connection	28 mm plug-in connection
Recommended accessories						
Part number		**161696**	**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**229336**	**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**233307**	**233307**	**233307**	**233307**	**233307**
Type		WPSF	WPSF	WPSF	WPSF	WPSF
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit
DHW cylinder						
Part number		**221360**	**221360**	**221360**	**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP	SBB 301 WP	SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder	DHW cylinder	DHW cylinder	DHW cylinder
Part number		**229980**	**229980**			
Type		SBS 601 W	SBS 601 W			
Description		Instantaneous water cylinder	Instantaneous water cylinder			
Part number				**229981**	**229981**	**229981**
Type				SBS 801 W	SBS 801 W	SBS 801 W
Description				Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Part number		**236684**	**236684**			
Type		HSBC 200 L	HSBC 200 L			
Description		Integral cylinder	Integral cylinder			
Part number		**238826**	**238826**	**238826**	**238826**	**238826**
Type		HSBC 300 L cool	HSBC 300 L cool	HSBC 300 L cool	HSBC 300 L cool	HSBC 300 L cool
Description		Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder

Inverter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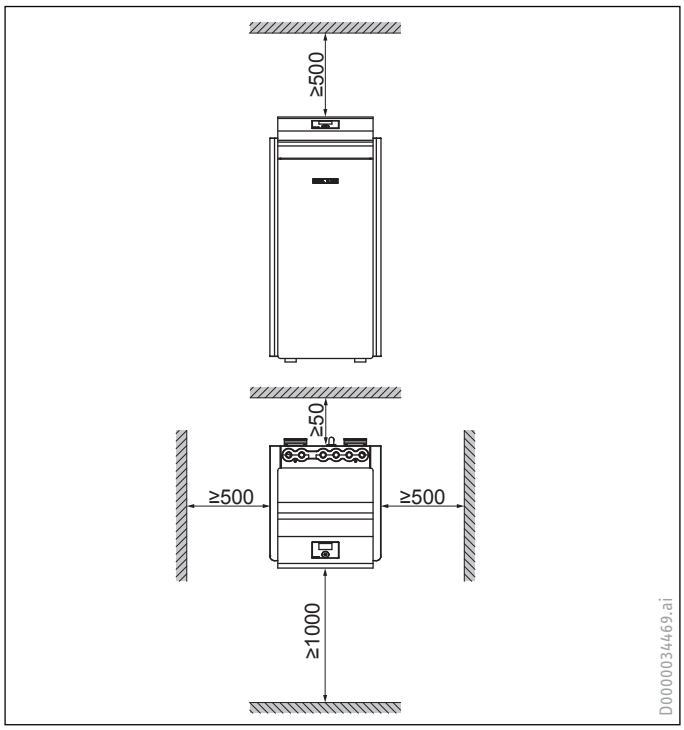
Inverter

		HPG-I 04 CS Premium	HPG-I 06 CS Premium	HPG-I 08 CS Premium	HPG-I 12 CS Premium	HPG-I 15 CS Premium
b01 Entry electrical cables		•	•	•	•	•
c12 Safety valve drain		•	•	•	•	•
e01 Heating flow - diameter	mm	28	28	28	28	28
e02 Heating return - diameter	mm	28	28	28	28	28
e22 Cylinder flow - diameter	mm	28	28	28	28	28
e23 Cylinder return - diameter	mm	28	28	28	28	28
f01 Heat source flow - diameter	mm	28	28	28	28	28
f02 Heat source return - diameter	mm	28	28	28	28	28

Minimum clearance diagram



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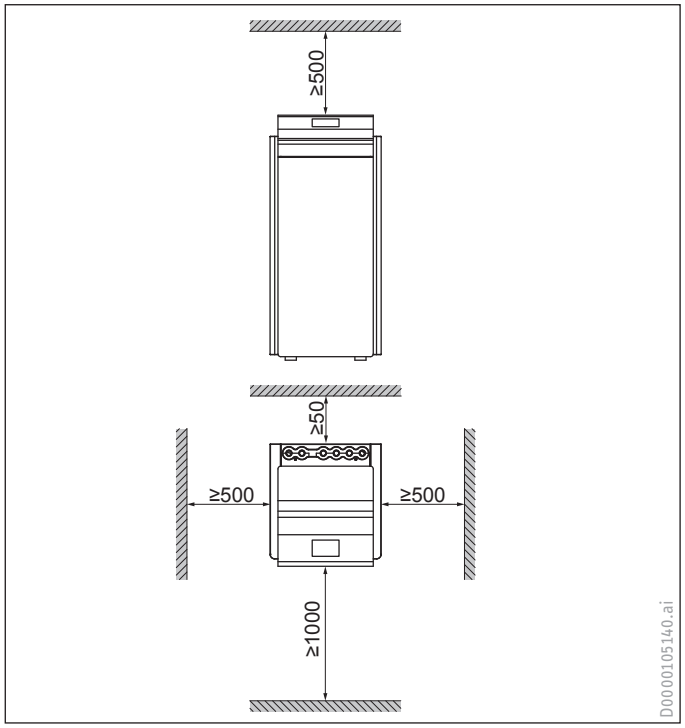

HPG-I 04-15 S Premium

HPG-I 04 S Premium

Benefits
- Easy and time saving installation with high level of integration
- High hot water convenience and mono mode heating thanks to high flow temperatures of up to 75 °C
- Pressure monitoring in the heat source circuit with integral brine pressure switch
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- Futureproof and eco-friendly refrigerant with high efficiency

Application • This ground source heat pump with output-dependent control and inverter technology is installed indoors. • The high level of integration simplifies installation whilst the small installation area means that it does not take up much space. • The heat pump can be used in modernisation projects as flow temperatures of up to 75 °C are available all year round for room heating and DHW heating. • Mono mode is possible for both heating and DHW heating.

Convenience features • Quiet operation due to encapsulated refrigerant circuit and acoustically isolated compressor. • Fully automatic, weather-compensated control of the heating system is assured by the integral heat pump manager. Control via the home network or from a mobile device is possible via the optional Internet Service Gateway. • Integral heat and electricity metering via refrigerant circuit data. • High level of integration: high efficiency circulation pumps and expansion vessels for the brine and heating side are included. Also integrated are the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and a safety valve with drain pipe. • The refrigerant circuit works with the eco-friendly and futureproof refrigerant R454C whose properties are optimised for use in heat pumps. • The corrosion-protected, enamelled metal casing is made from hot-dip galvanised, powder coated sheet steel.

Efficiency • Optimum operation all year round and high efficiency are ensured by the inverter and integral recuperator.

Installation • Carrying handles are provided on the back panel for easy transport. • Apart from a minimum room size, no special safety precautions are required when siting. • Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. For easy installation, the hydraulic connections are equipped with quick-release fittings and are thermally insulated.

		HPG-I 04 S Premium	HPG-I 06 S Premium	HPG-I 08 S Premium	HPG-I 12 S Premium	HPG-I 15 S Premium
Part number		**202617**	**202618**	**202619**	**202620**	**202621**
Specification						
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++	A+++	A+++	A+++
Energy efficiency class, composite system (heat pump + controller) W55		A+++	A+++	A+++	A+++	A+++
Heating output at B0/W35 (EN 14511)	kW	1,96	2,37	2,78	4,19	5,18
Heating output at B0/W35 (min./max.)	kW	1,0-4,2	1,0 - 6,6	1,0-7,6	2,1-12,7	2,1-14,8
COP at B0/W35 (EN 14511)		4.60	4.60	4.67	5.01	4.86
SCOP 35 °C (EN 14825)		5.07	5.20	5.12	5.59	5.44
Sound power level (EN 12102)	dB(A)	38-40	38-43	38-45	39-46	39-47
Max. application limit on the heating side	°C	75	75	75	75	75
Height	mm	1369	1369	1369	1369	1369
Width	mm	598	598	598	598	598
Depth	mm	658	695	695	695	695
Weight	kg	180	180	180	190	190
Rated voltage, compressor	V	230	230	230	230	230
Rated voltage, emergency/auxiliary heater	V	230	230	230	230	230

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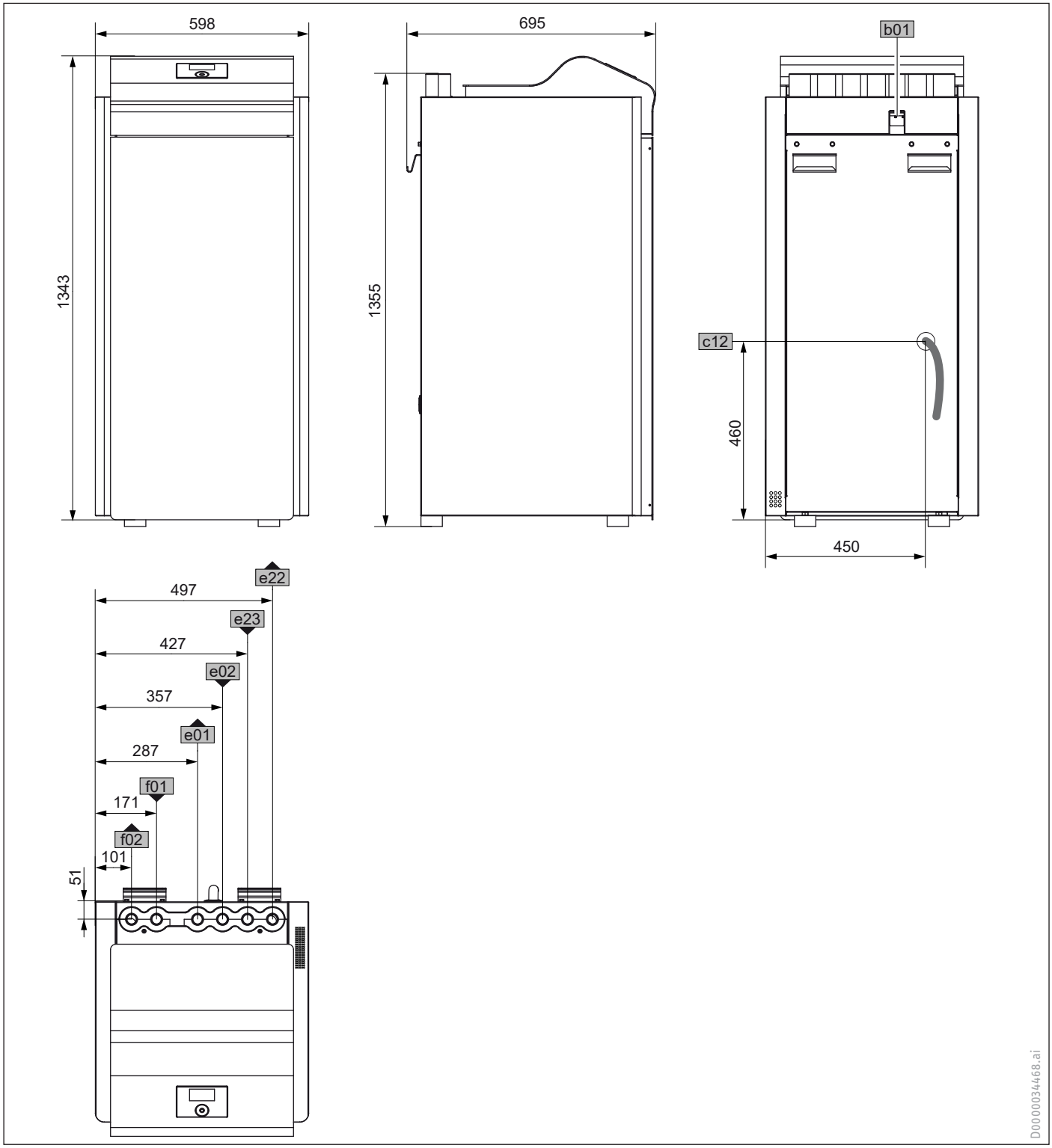
		HPG-I 04 S Premium	HPG-I 06 S Premium	HPG-I 08 S Premium	HPG-I 12 S Premium	HPG-I 15 S Premium
Refrigerant		R454C	R454C	R454C	R454C	R454C
Connection, heating side		28 mm	28 mm	28 mm	28 mm	28 mm
Connection, heat source side		28 mm plug-in connection	28 mm plug-in connection	28 mm plug-in connection	28 mm plug-in connection	28 mm plug-in connection
Recommended accessories						
Part number		**161696**	**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**229336**	**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**233307**	**233307**	**233307**	**233307**	**233307**
Type		WPSF	WPSF	WPSF	WPSF	WPSF
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit
DHW cylinder						
Part number		**221360**	**221360**	**221360**	**221360**	**221360**
Type		SBB 301 WP	SBB 301 WP	SBB 301 WP	SBB 301 WP	SBB 301 WP
Description		DHW cylinder	DHW cylinder	DHW cylinder	DHW cylinder	DHW cylinder
Part number		**229980**	**229980**			
Type		SBS 601 W	SBS 601 W			
Description		Instantaneous water cylinder	Instantaneous water cylinder			
Part number				**229981**	**229981**	**229981**
Type				SBS 801 W	SBS 801 W	SBS 801 W
Description				Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Part number		**236684**	**236684**			
Type		HSBC 200 L	HSBC 200 L			
Description		Integral cylinder	Integral cylinder			
Part number		**238826**	**238826**	**238826**	**238826**	**238826**
Type		HSBC 300 L cool	HSBC 300 L cool	HSBC 300 L cool	HSBC 300 L cool	HSBC 300 L cool
Description		Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder	Integral cylinder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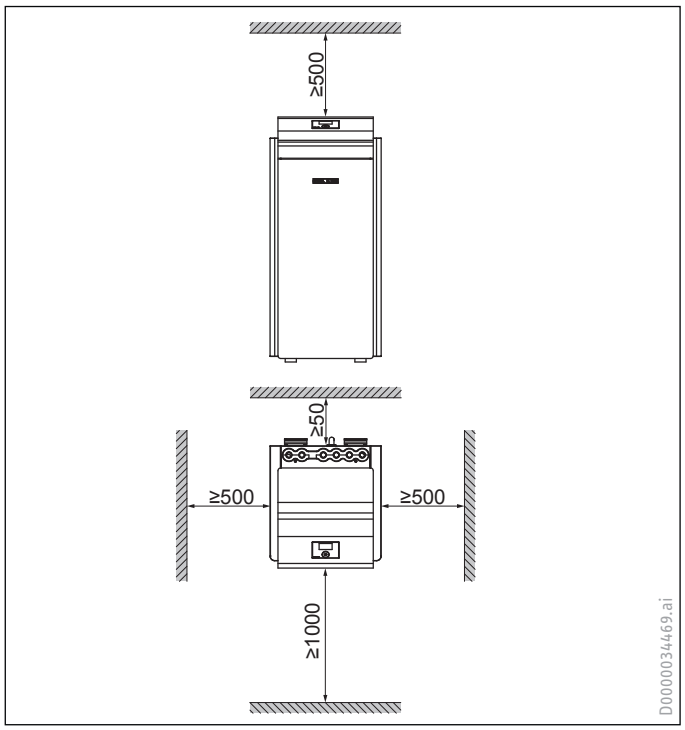
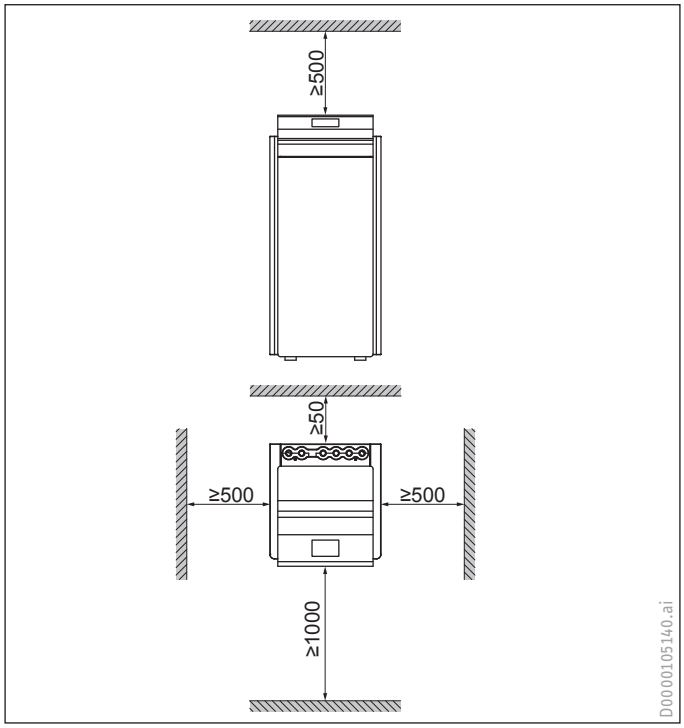
Inverter

		HPG-I 04 S Premium	HPG-I 06 S Premium	HPG-I 08 S Premium	HPG-I 12 S Premium	HPG-I 15 S Premium
b01 Entry electrical cables		•	•	•	•	•
c12 Safety valve drain		•	•	•	•	•
e01 Heating flow - diameter	mm	28	28	28	28	28
e02 Heating return - diameter	mm	28	28	28	28	28
e22 Cylinder flow - diameter	mm	28	28	28	28	28
e23 Cylinder return - diameter	mm	28	28	28	28	28
f01 Heat source flow - diameter	mm	28	28	28	28	28
f02 Heat source return - diameter	mm	28	28	28	28	28

Minimum clearance diagram



Inverter



WPE-I 33-87 H 400 Premium

WPE-I 33 H 400 Premium

Benefits

- Particularly efficient DHW heating using hot gas technology
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Highly versatile, as both cascade control and dual mode integration are possible
- Intuitive operation via colour touchscreen
- Easy to integrate thanks to various BMS interfaces

Application • This ground source heat pump with output-dependent control and inverter technology is installed indoors. • The heat pump is suitable for apartment buildings and commercial premises. • With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or for simultaneous heating and cooling. • It can be used in mono mode for heating and DHW operation. • Up to 16 heat pumps can be operated in a cascade to achieve the required heating output.

Convenience features • The heat pump can be installed in different types of buildings. The integral inverter continuously adjusts the heating output to match the current energy demand, which ensures flexibility in the application range. • One high efficiency circulation pump is provided for the brine side and one for the heating side. • The hot gas technology enables simultaneous DHW heating via an additional heat exchanger. • Fully automatic, weather-compensated control of the heating system is taken care of by the integral heat pump manager with colour touchscreen. When combined with the optional ISG Internet Service Gateway, it is also possible to control the system in the home network or with a mobile device. There is also optional provision for external control of the heating system via a building management system. • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate and its internal hydraulic connections are flexible. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A.

Efficiency • The heat pump's all year round demand-dependent output provision is ensured by the integral inverter which also enables the system to operate very efficiently. • The hot gas technology included as standard ensures high DHW temperatures with very good efficiency and at low cost.

Installation • The vertical design means that only a small installation space is required. • The high level of integration enables quick and simplified installation, even with larger systems. The appliances are fully installed and delivered ready for operation. • Internal pressure hoses are provided for direct hydraulic connection to the heating and brine circuits.

		WPE-I 33 H 400 Premium	WPE-I 44 H 400 Premium	WPE-I 59 H 400 Premium	WPE-I 87 H 400 Premium
Part number		**201412**	**201413**	**201414**	**201415**
Specification					
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A+++	A+++	A+++	A+++
Energy efficiency class, composite system (heat pump + controller) W55		A+++	A+++	A+++	A+++
Heating output at B0/W35 (EN 14511)	kW	20,18	26,71	35,60	52,00
Heating output at B0/W35 (min./max.)	kW	10-33	11-44	14-59	21-87
COP at B0/W35 (EN 14511)		4.73	4.60	4.50	4.71
SCOP 35 °C (EN 14825)		5.55	5.65	5.19	5.17
Sound power level (EN 12102)	dB(A)	41-56	41-56	46-61	46-63
Max. application limit on the heating side	°C	65	65	65	65
Height	mm	1723	1723	1742	1742
Width	mm	692	692	900	900
Depth	mm	803	803	848	848
Weight	kg	300	300	430	550
Rated voltage, compressor	V	400	400	400	400
Refrigerant		R410A	R410A	R410A	R410A

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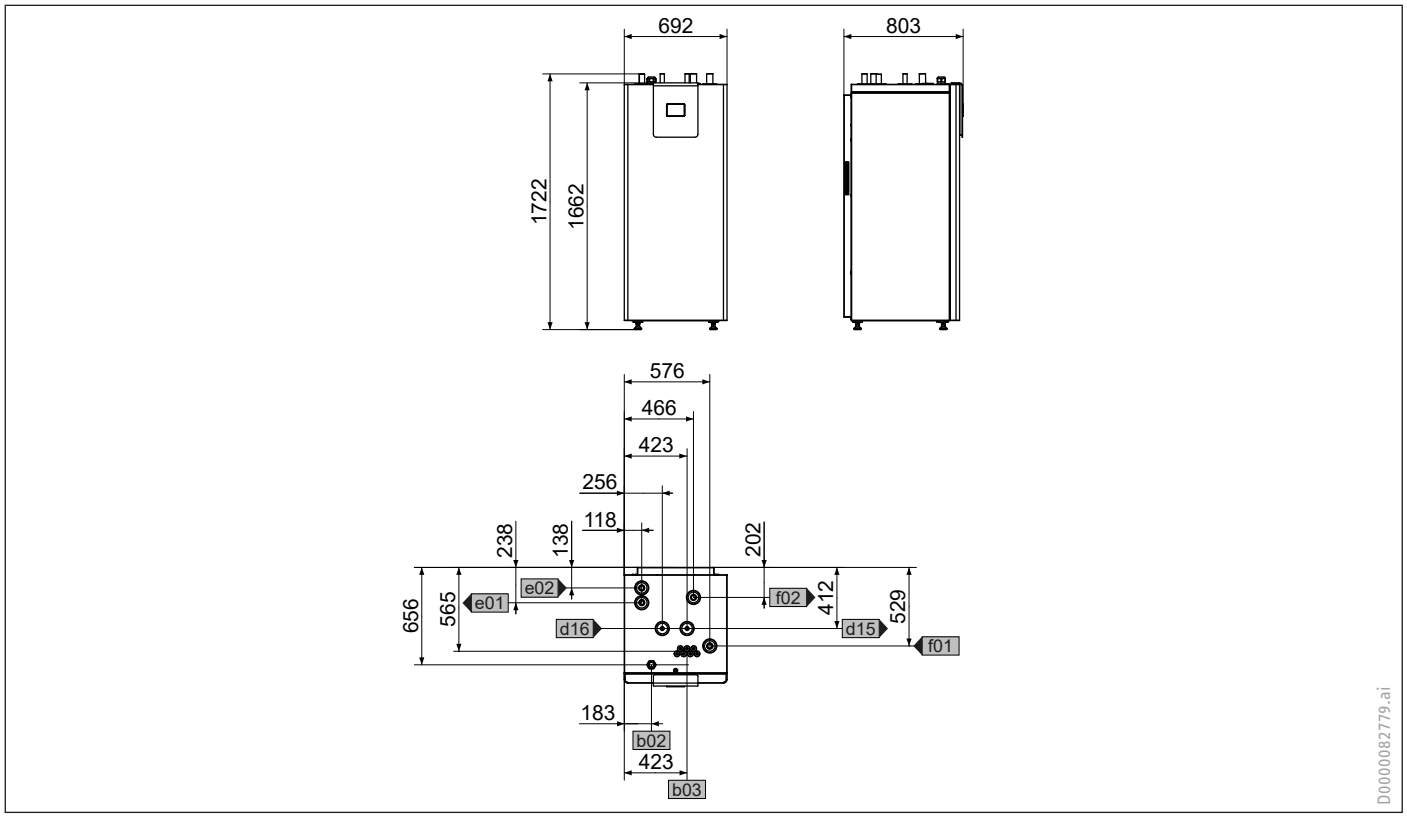
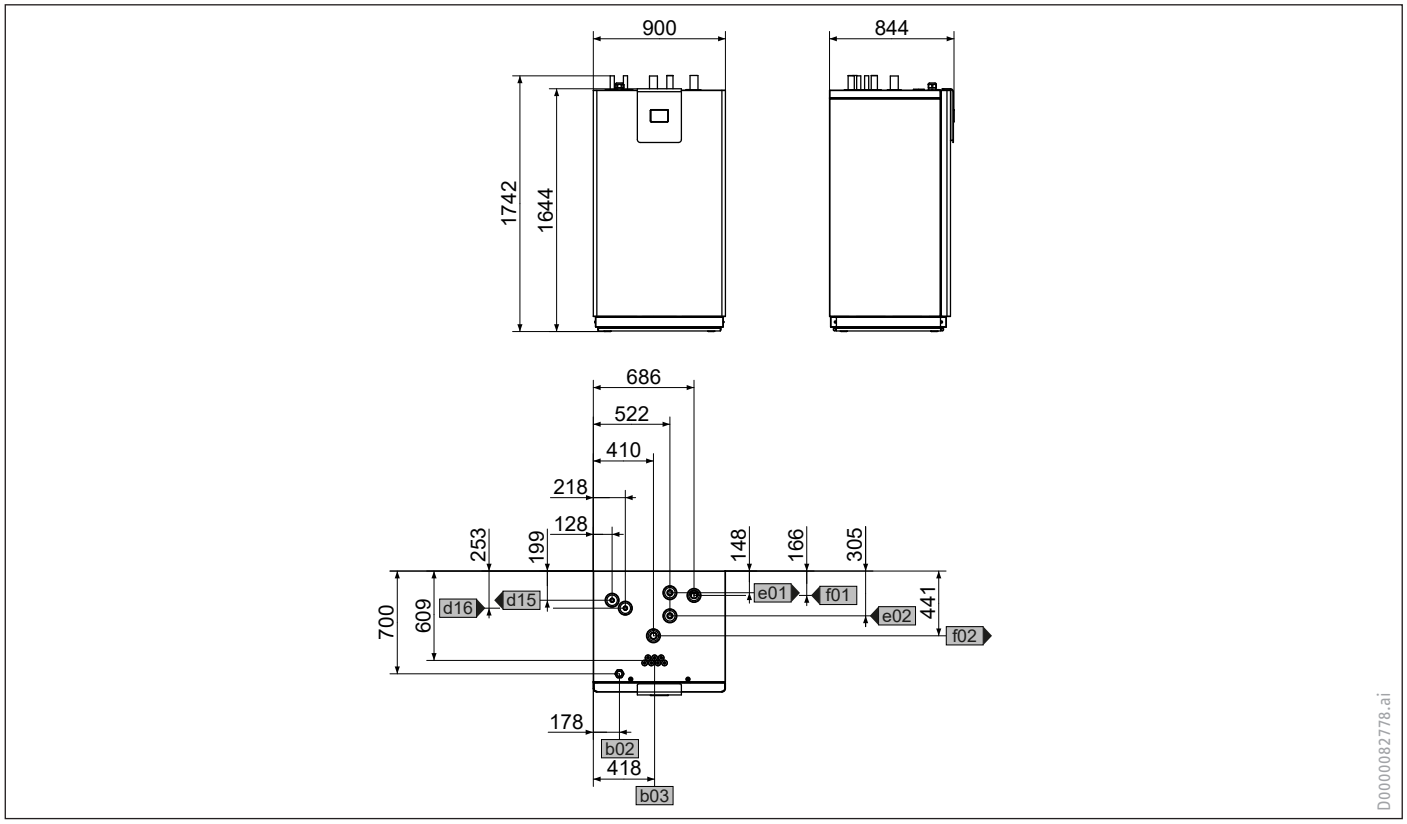
		WPE-I 33 H 400 Premium	WPE-I 44 H 400 Premium	WPE-I 59 H 400 Premium	WPE-I 87 H 400 Premium
Connection, heating side		35 mm	35 mm	42 mm	42 mm
Connection, hot gas	mm	28	28	28	28
Connection, heat source side		42 mm	42 mm	54 mm	54 mm
Recommended accessories					
Part number		**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**201715**	**201715**	**201715**	**201715**
Type		EM 33-87	EM 33-87	EM 33-87	EM 33-87
Description		Extension module for WPMG	Extension module for WPMG	Extension module for WPMG	Extension module for WPMG
Part number		**201716**	**201716**	**201716**	**201716**
Type		HG Set 33-87	HG Set 33-87	HG Set 33-87	HG Set 33-87
Description		Hot gas set	Hot gas set	Hot gas set	Hot gas set
Part number		**201767**	**201767**	**201767**	**201767**
Type		FEG	FEG	FEG	FEG
Description		Digital remote control	Digital remote control	Digital remote control	Digital remote control
Part number		**202062**	**202062**	**202062**	**202062**
Type		EMW	EMW	EMW	EMW
Description		Extension module with wall mounted enclosure	Extension module with wall mounted enclosure	Extension module with wall mounted enclosure	Extension module with wall mounted enclosure
Part number		**202779**	**202779**	**202779**	**202779**
Type		FSHP-L45	FSHP-L45	FSHP-L45	FSHP-L45
Description		Flow switch	Flow switch	Flow switch	Flow switch
Part number		**221382**	**221382**	**221382**	**221382**
Type		DWS1	DWS1	DWS1	DWS1
Description		Brine pressure switch	Brine pressure switch	Brine pressure switch	Brine pressure switch
Part number		**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
DHW cylinder					
Part number		**229982**	**229982**	**229982**	**229982**
Type		SBS 1001 W	SBS 1001 W	SBS 1001 W	SBS 1001 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Part number		**229983**	**229983**	**229983**	**229983**
Type		SBS 1501 W	SBS 1501 W	SBS 1501 W	SBS 1501 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Buffer cylinder					
Part number		**185459**	**185459**		
Type		SBP 700 E	SBP 700 E		
Description		Buffer cylinder	Buffer cylinder		
Part number		**203765**	**203765**		
Type		STH 720 Plus	STH 720 Plus		
Description		Buffer cylinder	Buffer cylinder		
Part number				**227564**	
Type				SBP 1000 E	
Description				Buffer cylinder	
Part number					**227565**
Type					SBP 1500 E
Description					Buffer cylinder

Inverter

WPE-I 33 H 400 Premium
WPE-I 44 H 400 Premium



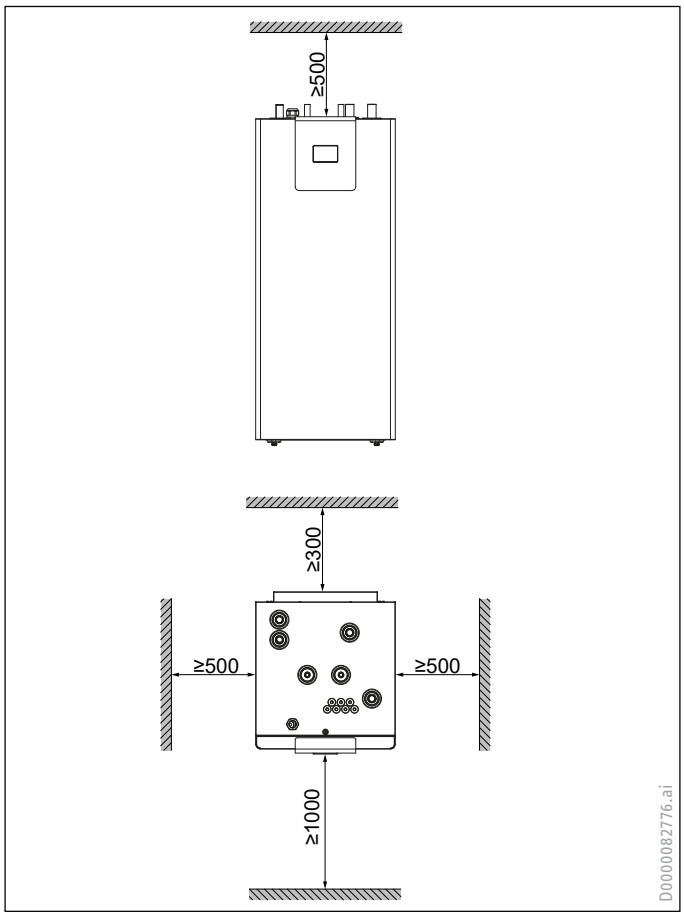
WPE-I 59 H 400 Premium
WPE-I 87 H 400 Premium



		WPE-I 33 H 400 Premium	WPE-I 44 H 400 Premium	WPE-I 59 H 400 Premium	WPE-I 87 H 400 Premium
b02 Entry electrical cables I		•	•	•	•
b03 Entry electrical cables II		•	•	•	•
d15 Hot gas DHW flow optional - diameter	mm	28	28	28	28
d16 Hot gas DHW return optional - diameter	mm	28	28	28	28
e01 Heating flow - diameter	mm	35	35	42	42
e02 Heating return - diameter	mm	35	35	42	42
f01 Heat source flow - diameter	mm	42	42	54	54
f02 Heat source return - diameter	mm	42	42	54	54

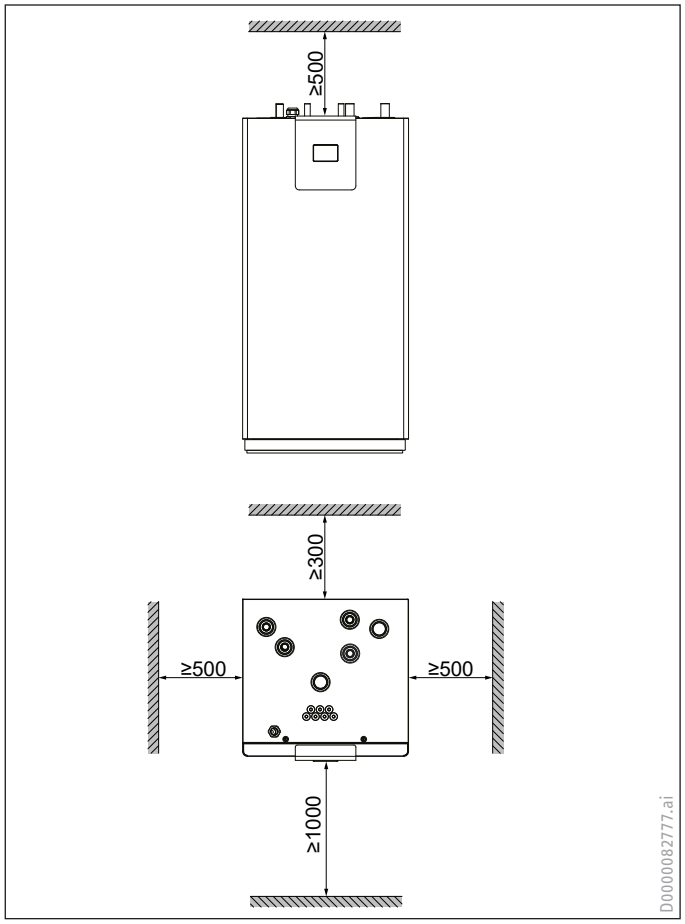
Minimum clearance diagram

WPE-I 33 H 400 Premium
WPE-I 44 H 400 Premium



Inverter

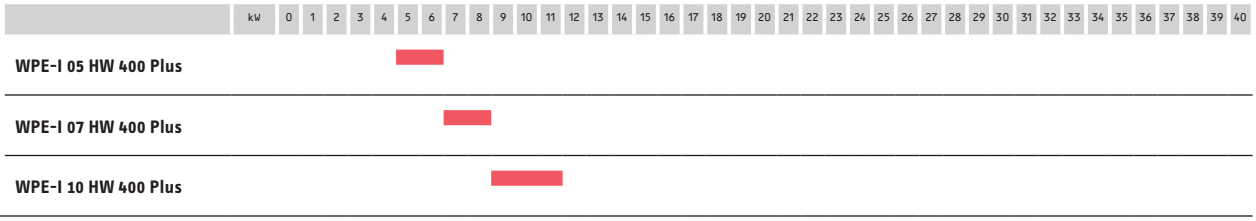
WPE-I 59 H 400 Premium
Premium
WPE-I 87 H 400

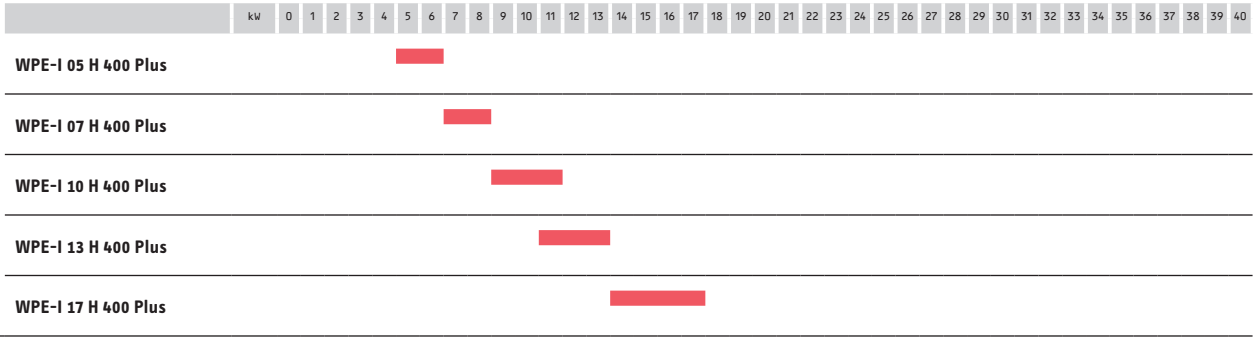


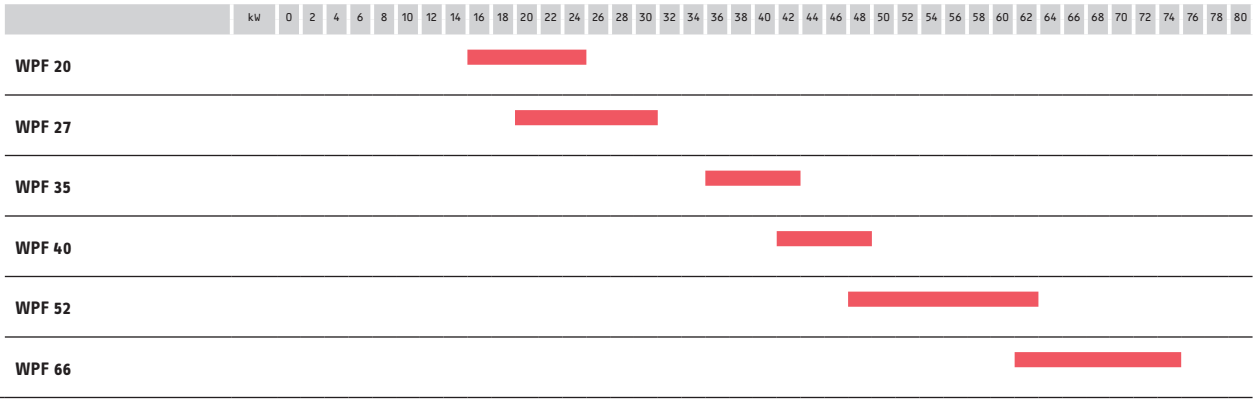
Application areas

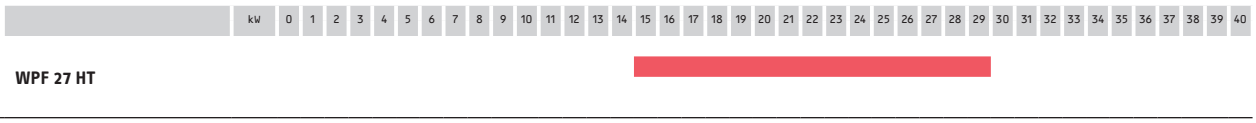
Heating

Cooling









Fixspeed

WPE-I 05-10 HW 400 Plus 272
WPE-I 05-17 H 400 Plus 274
WPF 20-66 277
WPF 27 HT 281

Fixspeed

WPE-I 05-10 HW 400 Plus

WPE-I 05 HW 400 Plus

Benefits

- Compact ground source heat pump for heating and cooling
- Suitable for energy modernisation projects, as the high supply flow temperature is available all year round
- Optional active cooling by reversing the refrigerant cycle
- Easy and time saving installation with high level of integration
- Intuitive operation via colour touchscreen

Application • This compact ground source heat pump is suitable for heating family homes, and at the same time assures the supply of hot water. • The heat pump is suitable for both new build and modernisation, thanks to the high flow temperatures all year round. • Cooling is possible with additional external components.

Convenience features • The heat pump is installed indoors. • The small installation area is achieved through a high level of integration: the compact casing is equipped as standard with a controller and hydraulic components such as diverter valves and circulation pumps. • For control, an easy to read touchscreen is integrated that is intuitive to use. Visualised heating curves provide information on system performance. • The heat pump is very quiet in operation as the refrigerant circuit is mounted on an anti-vibration base plate. This minimises the transfer of structure-borne sound to the building. • The high grade stainless steel cylinder has undergone a special process for very good protection against corrosion. • Active cooling is possible through external circuit reversal; for passive cooling an additional external plate heat exchanger is required. • The heat pump can be controlled via the Internet Service Gateway (optional accessory) with the MyStiebel app on a smartphone or tablet.

Efficiency • The variable speed circulation pumps ensure efficient operation of the heat pump.

Installation • Siting is easier, as the weight of the heat pump has been significantly reduced compared to the previous model.

		WPE-I 05 HW 400 Plus	WPE-I 07 HW 400 Plus	WPE-I 10 HW 400 Plus
Part number		**205834**	**205835**	**205836**
Specification				
Energy efficiency class, heat pump W35		A+++	A+++	A+++
Energy efficiency class, heat pump W55		A++	A++	A++
Heating output at B0/W35 (EN 14511)	kW	5,56	7,35	9,81
Heating output at B0/W55 (EN 14511)	kW	5.00	6.84	9.25
Power consumption at B0/W55 (EN 14511)	kW	1.80	2.43	3.04
COP at B0/W35 (EN 14511)		4.40	4.62	4.76
COP at B0/W55 (EN 14511)		2.78	2.81	3.04
SCOP 35 °C (EN 14825)		4.74	4.96	5.09
Sound power level (EN 12102)	dB(A)	42	42	42
Max. application limit on the heating side	°C	60	60	60
Height	mm	1860	1860	1860
Width	mm	600	600	600
Depth	mm	707	707	707
Nominal capacity	l	184	184	184
Weight	kg	148	165	170
Rated voltage, compressor	V	400	400	400
Rated voltage, emergency/auxiliary heater	V	400	400	400
Refrigerant		R452B	R452B	R452B
Surface area, heat exchanger	m²	1.83	1.83	1.83
Energy efficiency class, DHW heating with load profile XL		A	A	A

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		WPE-I 05 HW 400 Plus	WPE-I 07 HW 400 Plus	WPE-I 10 HW 400 Plus
Recommended accessories				
Part number		**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**233307**	**233307**	**233307**
Type		WPSF	WPSF	WPSF
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit

Fixspeed

WPE-I 05-17 H 400 Plus

WPE-I 05 H 400 Plus

Benefits

- Compact ground source heat pump for heating
- Active or passive cooling possible with additional components
- Mono mode operation possible for heating and DHW thanks to higher flow temperatures
- High level of integration for reduced installation effort
- Simple and intuitive operation

Application • This ground source heat pump is suitable for heating family homes. • Thanks to the high flow temperatures all year round, the heat pump can be used in both new build and modernisation. • Cooling is possible with additional external components.

Convenience features • The heat pump is installed indoors. • The small installation area is achieved through a high level of integration: the compact casing is equipped as standard with a controller and hydraulic components such as diverter valves and circulation pumps. • For control, an easy to read touchscreen is integrated that is intuitive to use. Visualised heating curves provide information on system performance. • The heat pump is very quiet in operation as the refrigerant circuit is mounted on an anti-vibration base plate. This minimises the transfer of structure-borne sound to the building. • Active cooling is possible through external circuit reversal; for passive cooling an additional external plate heat exchanger is required. • The heat pump can be controlled via the Internet Service Gateway (optional accessory) with the MyStiebel app on a smartphone or tablet.

Efficiency • The variable speed circulation pumps ensure efficient operation of the heat pump.

Installation • Siting is easier, as the weight of the heat pump has been significantly reduced compared to the previous model.

		WPE-I 05 H 400 Plus	WPE-I 07 H 400 Plus	WPE-I 10 H 400 Plus	WPE-I 13 H 400 Plus	WPE-I 17 H 400 Plus
Part number		**205828**	**205829**	**205831**	**205832**	**205833**
Specification						
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A++	A++	A++	A++	A++
Heating output at B0/W35 (EN 14511)	kW	5,56	7,35	9,81	12,42	16,69
Heating output at B0/W55 (EN 14511)	kW	5.00	6.84	9.25	11.85	15.77
COP at B0/W35 (EN 14511)		4.40	4.62	4.76	4.52	4.43
COP at B0/W55 (EN 14511)		2.78	2.81	3.04	3.01	2.98
SCOP 35 °C (EN 14825)		4.74	4.96	5.09	4.94	4.79
SCOP 55 °C (EN 14825)	°C		3.7			
Sound power level (EN 12102)	dB(A)	44	44	44	46	46
Max. application limit on the heating side	°C	60	60	60	60	60
Height	mm	1430	1430	1430	1430	1430
Width	mm	600	600	600	600	600
Depth	mm	707	707	707	707	707
Weight	kg	113	125	130	135	148
Rated voltage, compressor	V	400	400	400	400	400
Rated voltage, emergency/auxiliary heater	V	400	400	400	400	400
Refrigerant		R452B	R452B	R452B	R452B	R452B
Recommended accessories						
Part number		**161696**	**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium

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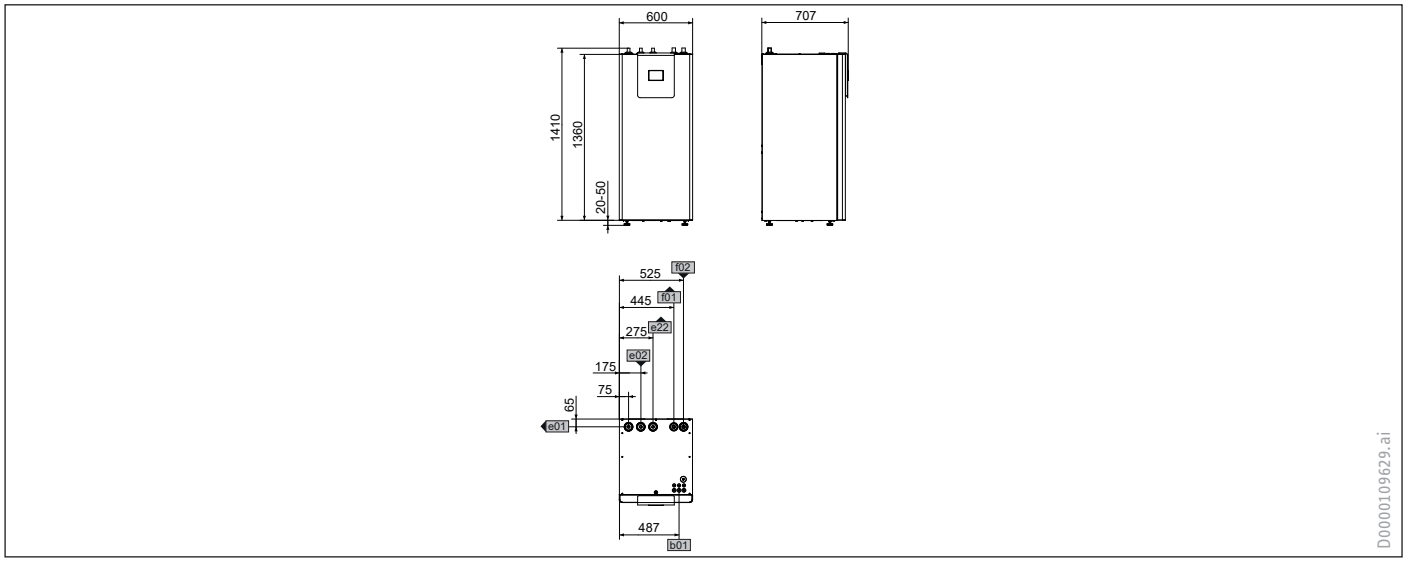
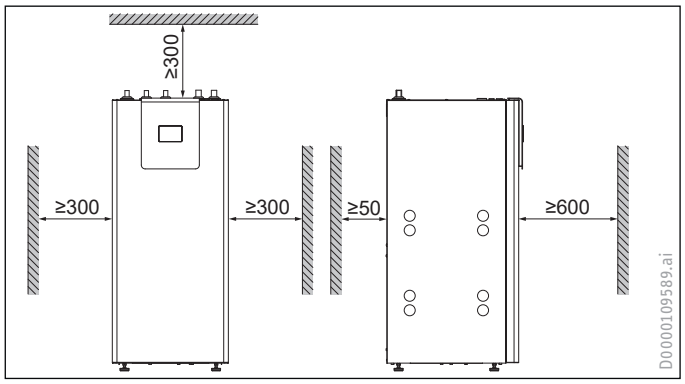
Fixspeed

		WPE-I 05 H 400 Plus	WPE-I 07 H 400 Plus	WPE-I 10 H 400 Plus	WPE-I 13 H 400 Plus	WPE-I 17 H 400 Plus
Part number		**229336**	**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
Part number		**233307**	**233307**	**233307**	**233307**	**233307**
Type		WPSF	WPSF	WPSF	WPSF	WPSF
Description		WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit	WPSF multifunction brine filling unit
DHW cylinder						
Part number				**221360**	**221360**	
Type				SBB 301 WP	SBB 301 WP	
Description				DHW cylinder	DHW cylinder	
Part number						**221361**
Type						SBB 302 WP
Description						DHW cylinder
Part number			**229981**	**229981**	**229981**	**229981**
Type			SBS 801 W	SBS 801 W	SBS 801 W	SBS 801 W
Description			Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder



Fixspeed

Minimum clearance diagram



Fixspeed

WPF 20-66

WPF 20

Benefits

- Ground source heat pump for flexible use
- Low operating costs due to high coefficient of performance all year round
- Suitable for use in residential and commercial buildings due to high output
- Where available space is limited, two appliances can be installed one above the other
- High reliability thanks to robust single compressor design

Application • This ground source heat pump is suitable for indoor installation, or outdoor installation with weather protection. • Suitable for apartment buildings and commercial applications due to high outputs: up to 66 kW per individual appliance or up to 400 kW in a cascade. • With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or for simultaneous heating and cooling. • Optimised for space saving installation as two appliances can be installed one above the other. • Can be used in mono mode for heating and DHW operation.

Convenience features • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate for quiet operation. • The system can be controlled via the home network or a mobile device. This is achieved by combining the heat pump controller (accessory) with the ISG Internet Service Gateway as an optional accessory. With integral heat and electricity metering via refrigerant circuit data. • Fault messages can be processed externally via a 230 V signal. • The system can be integrated into an existing building automation system if required using a software extension. • Safety equipment is integrated, such as a high/low pressure switch and frost protection. • The metal casing is corrosion-protected. It is made from hot-dip galvanised, powder coated sheet steel.

Efficiency • The heat pump unit is equipped with a scroll compressor with a soft starter and optimised stainless steel heat exchangers for improved efficiency.

Installation • To facilitate installation in confined spaces, it is possible to reduce the standard unit to a width of 800 mm for transport. Fixing points for lifting eyes are also provided.

		WPF 20	WPF 27	WPF 35	WPF 40	WPF 52	WPF 66
Part number		**233003**	**233004**	**233005**	**233006**	**233007**	**233008**
Specification							
Energy efficiency class, heat pump W35		A+++	A+++	A+++	A+++	A+++	A+++
Energy efficiency class, heat pump W55		A++	A++	A++	A++	A++	A++
Heating output at B0/W35 (EN 14511)	kW	21,5	29,69	38,04	43,1	55,83	67,10
Heating output at B0/W55 (EN 14511)	kW	20.10	26.69	34.09	40.20	52.18	62.30
COP at B0/W35 (EN 14511)		4.66	4.85	4.78	4.67	4.81	4.56
COP at B0/W55 (EN 14511)		2.84	2.79	2.78	2.88	2.99	2.82
SCOP 35 °C (EN 14825)		5.00	5.28	5.20	5.05	5.20	4.95
Sound power level (EN 12102)	dB(A)	54	55	55	58	58	59
Max. application limit on the heating side	°C	60	60	60	60	60	60
Height	mm	1154	1154	1154	1154	1154	1154
Width	mm	1242	1242	1242	1242	1242	1242
Depth	mm	860	860	860	860	860	860
Weight	kg	345	367	391	415	539	655
Rated voltage, compressor	V	400	400	400	400	400	400
Rated voltage, emergency/auxiliary heater	V	400	400	400	400	400	400
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A

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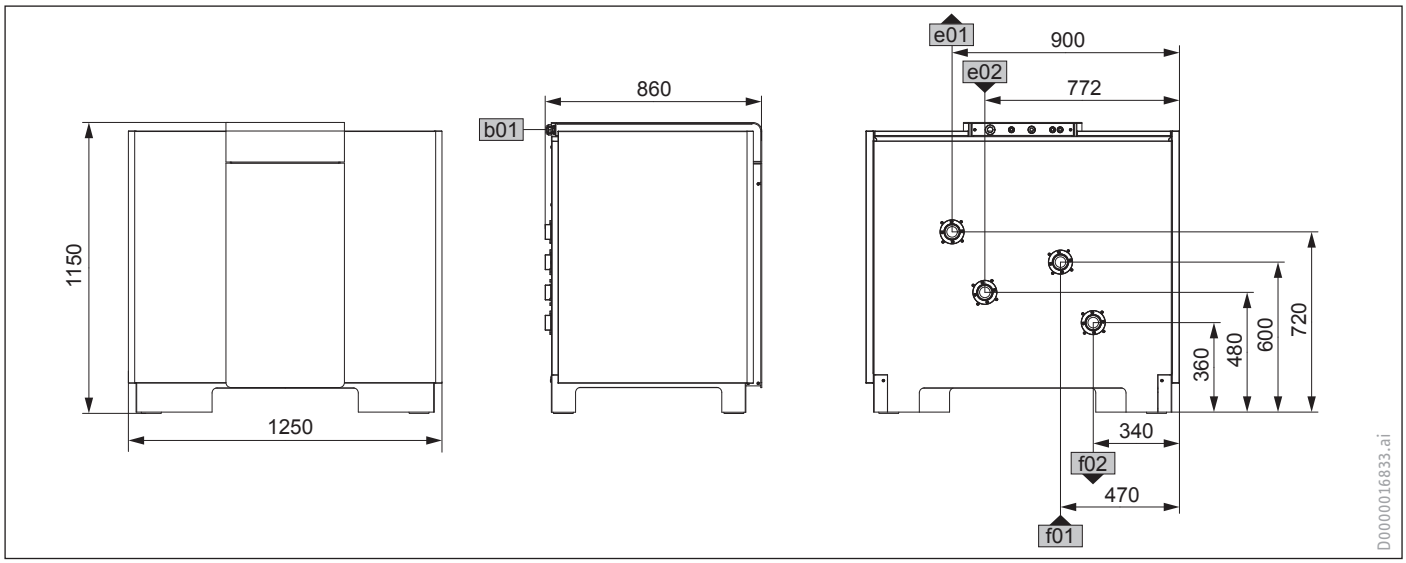
Fixspeed

		WPF 20	WPF 27	WPF 35	WPF 40	WPF 52	WPF 66
Required accessories							
Part number		**236000**	**236000**	**236000**	**236000**	**236000**	**236000**
Type		WPM international	WPM international	WPM international	WPM international	WPM international	WPM international
Description		Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure	Heat pump manager in wall mounted enclosure
Recommended accessories							
Part number		**161696**	**161696**	**161696**	**161696**	**161696**	**161696**
Type		MEG 30	MEG 30	MEG 30	MEG 30	MEG 30	MEG 30
Description		Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium	Heat transfer medium
Part number		**221382**	**221382**	**221382**	**221382**	**221382**	**221382**
Type		DWS1	DWS1	DWS1	DWS1	DWS1	DWS1
Description		Brine pressure switch	Brine pressure switch	Brine pressure switch	Brine pressure switch	Brine pressure switch	Brine pressure switch
Part number		**222375**	**222375**				
Type		WPSB 308 E	WPSB 308 E				
Description		Brine assembly for the heat source system	Brine assembly for the heat source system				
Part number		**229336**	**229336**	**229336**	**229336**	**229336**	**229336**
Type		ISG web	ISG web	ISG web	ISG web	ISG web	ISG web
Description		Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway	Internet Service Gateway
DHW cylinder							
Part number		**229982**	**229982**	**229982**	**229982**	**229982**	**229982**
Type		SBS 1001 W	SBS 1001 W	SBS 1001 W	SBS 1001 W	SBS 1001 W	SBS 1001 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Part number		**229983**	**229983**	**229983**	**229983**	**229983**	**229983**
Type		SBS 1501 W	SBS 1501 W	SBS 1501 W	SBS 1501 W	SBS 1501 W	SBS 1501 W
Description		Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder	Instantaneous water cylinder
Buffer cylinder							
Part number		**227564**	**227564**				**227564**
Type		SBP 1000 E	SBP 1000 E				SBP 1000 E
Description		Buffer cylinder	Buffer cylinder				Buffer cylinder
Part number				**227565**	**227565**	**227565**	
Type				SBP 1500 E	SBP 1500 E	SBP 1500 E	
Description				Buffer cylinder	Buffer cylinder	Buffer cylinder	

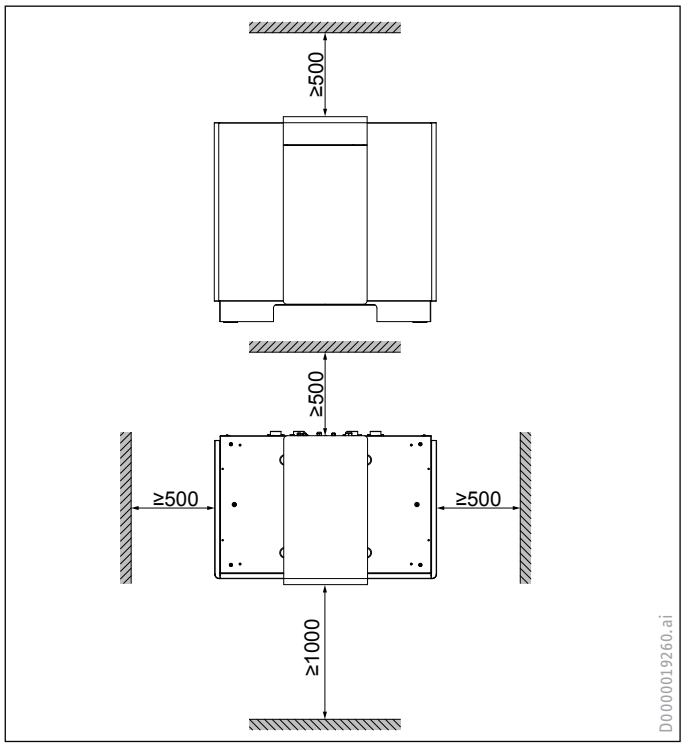
Fixspeed



		WPF 20	WPF 27	WPF 35	WPF 40	WPF 52	WPF 66
b01 Entry electrical cables		•	•	•	•	•	•
e01 Heating flow - male thread		G 2	G 2	G 2	G 2	G 2	G 2
e02 Heating return - male thread		G 2	G 2	G 2	G 2	G 2	G 2
f01 Heat source flow - male thread		G 2	G 2	G 2	G 2	G 2	G 2
f02 Heat source return - male thread		G 2	G 2	G 2	G 2	G 2	G 2

Fixspeed

Minimum clearance diagram



Fixspeed

WPF 27 HT

WPF 27 HT

Benefits

- Ground source heat pump for flexible use
- High hot water convenience with flow temperatures of up to 75 °C
- Low operating costs due to high coefficient of performance all year round
- Suitable for use in residential and commercial buildings due to high output
- Ideal for DHW heating in a cascade of ground source heat pumps
- Where available space is limited, two appliances can be installed one above the other
- High reliability thanks to robust single compressor design

Application • This ground source heat pump is suitable for indoor installation, or outdoor installation with weather protection. • Suitable for apartment buildings and commercial applications due to high outputs: 66 kW per individual appliance or up to 400 kW in a cascade. • With additional hydraulic components, the existing source system can be used for passive and active cooling, or for simultaneous heating and cooling. • Optimised for space saving installation as two appliances can be installed one above the other. • Can be used in mono mode for heating and DHW operation.

Convenience features • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate for quiet operation. • The system can be controlled via the home network or a mobile device. This is achieved by combining the heat pump controller (accessory) with the Internet Service Gateway as an optional accessory. With integral heat and electricity metering via refrigerant circuit data. • Fault messages can be processed externally via a 230 V signal. • The system can be integrated into an existing building automation system if required using a software extension. • Safety equipment is integrated, such as a high/low pressure switch and frost protection. • The corrosion-protected metal casing is made from hot-dip galvanised, powder coated sheet steel.

Efficiency • The heat pump unit is equipped with a scroll compressor with soft starter and optimised stainless steel heat exchangers for improved efficiency.

Installation • To facilitate installation in confined spaces, it is possible to reduce the standard unit to a width of 800 mm for transport. In addition, there are fixing points on the standard appliance for lifting eyes.

product design award 2008

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DESIGN PLUS

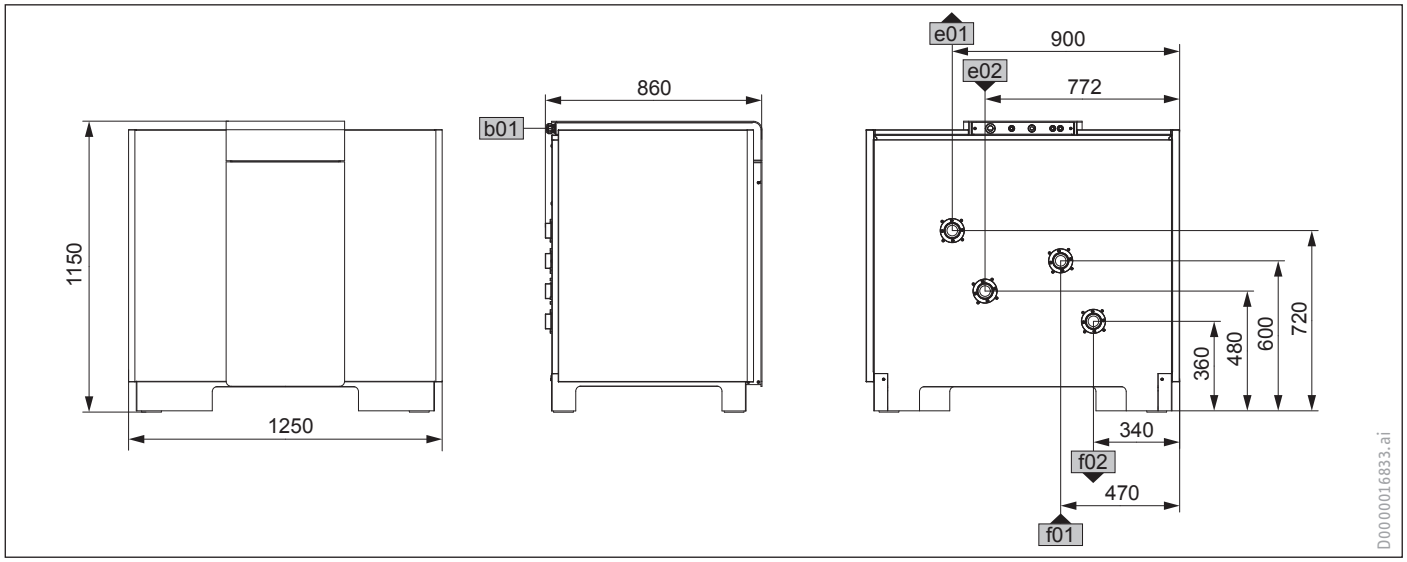
7

		WPF 27 HT
Part number		**233009**
Specification		
Energy efficiency class, heat pump W35		A+++
Energy efficiency class, heat pump W55		A++
Heating output at B0/W35 (EN 14511)	kW	27,41
Heating output at B0/W55 (EN 14511)	kW	25.10
COP at B0/W35 (EN 14511)		4.34
COP at B0/W55 (EN 14511)		2.95
SCOP 35 °C (EN 14825)		4.58
Sound power level (EN 12102)	dB(A)	60
Max. application limit on the heating side	°C	75
Height	mm	1154
Width	mm	1242
Depth	mm	860
Weight	kg	409
Rated voltage, compressor	V	400
Rated voltage, emergency/auxiliary heater	V	400
Refrigerant		R134a

next page >

Fixspeed

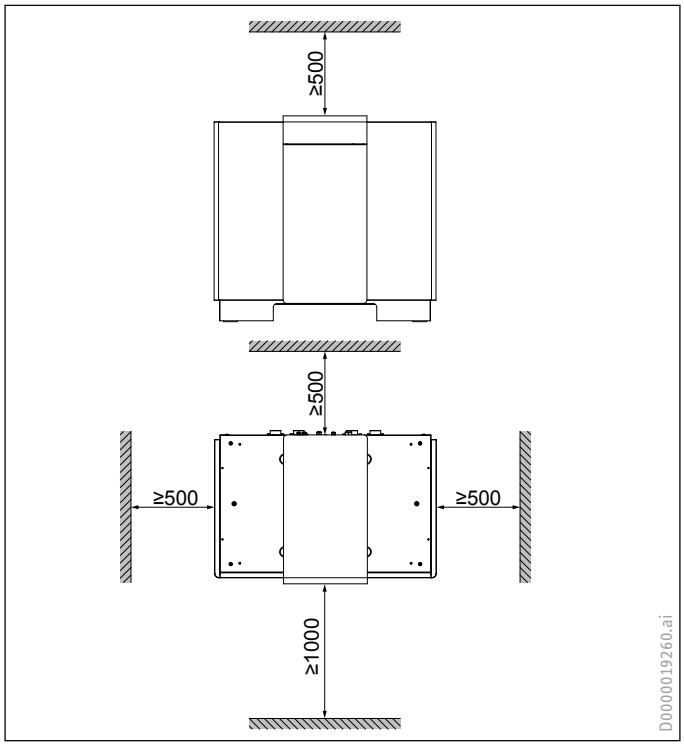
		WPF 27 HT
Required accessories		
Part number		**236000**
Type		WPM international
Description		Heat pump manager in wall mounted enclosure
Recommended accessories		
Part number		**161696**
Type		MEG 30
Description		Heat transfer medium
Part number		**221382**
Type		DWS1
Description		Brine pressure switch
Part number		**229336**
Type		ISG web
Description		Internet Service Gateway
DHW cylinder		
Part number		**229982**
Type		SBS 1001 W
Description		Instantaneous water cylinder
Part number		**229983**
Type		SBS 1501 W
Description		Instantaneous water cylinder
Buffer cylinder		
Part number		**227564**
Type		SBP 1000 E
Description		Buffer cylinder



Fixspeed

		WPF 27 HT
b01 Entry electrical cables		•
e01 Heating flow - male thread		G 2
e02 Heating return - male thread		G 2
f01 Heat source flow - male thread		G 2
f02 Heat source return - male thread		G 2

Minimum clearance diagram



Fixspeed

Accessories
Accessories 286

UPF

UPF 30/1-8 E

Benefits
- Reliable and energy efficient brine circulation pump
- Electronic closed-loop control
- Insulation shell included in delivery
- with connecting cable and non-return valve (Product: 232532)

Description • Circulation pump with vapour diffusion-proof thermal insulation. Energy efficient thanks to integral electronic output control for constant or variable differential pressure. The circulation pump is suitable for operation on the heat source side of ground source heat pumps.

		UPF 30/1-8 E	UPF 40/1-8 E	UPF 50/1-12 E
Part number		**232532**	**227413**	**227414**
Specification				
Energy Efficiency Index EEI		0.23	0.23	0.23
Connection		G 2	DN 40	DN 50
Delivery head	m	8.00	8.00	12.00
Max. flow rate	m³/h	8.00	15.00	29.00
Power consumption	W	8-130	12-310	25-590
Rated voltage	V	230	230	230
Control via 0-10 V signal with IF module		-	-	-
Control via differential pressure		x	x	x
Control via PWM signal		-	-	-
Installation length (centre distance)	mm	180	220	280

GWS 1/2

GWS 1

Benefits
- For the use of groundwater as a heat source in ground source heat pumps
- Thermally insulated casing

Application • This groundwater module makes use of groundwater as the heat source for ground source heat pumps. • The module comprises a corrosion-resistant stainless steel plate heat exchanger, two 3-way diverter valves as shut-off valves with drain & fill valves, and a duplex casing made from thermally insulating plastic. • The groundwater module can be rotated 180° for connection on the left or right of the heat pump, depending on the situation. Alternative use as ground source heat pumps with non-approved heat transfer media is possible.

		GWS 1	GWS 2
Part number		**230659**	**230660**
Specification			
Connection, heat pump		28 mm	28 mm
Connection, heat source side		G 1 1/4	G 1 1/4
Chlorine heat transfer medium	mg/l	<0.5	<0.5
Chloride heat transfer medium	mg/l	<300	<300
Iron and manganese heat transfer medium	mg/l	<0.5	<0.5
Height	mm	630	630

next page >

		GWS 1	GWS 2
Width	mm	640	640
Depth	mm	230	230
Weight	kg	20.50	26.50

WPSB

WPSB 308 E

Benefits
› Quick and straightforward installation

Description • Assembly with wall mounting bracket for the heat source system of the ground source heat pump, for quick and straightforward installation. The standard delivery includes a high efficiency brine circuit pump, including shut-off valves and insulation shell, brine-resistant diaphragm expansion vessel, pressure gauge, safety valve and drain valve.

		WPSB 308 E
Part number		**222375**
Specification		
Circulation pump type		Stratos PARA 30/1-8 E
Flow rate	m³/h	2.0
Max. delivery head	m	7.00
Safety valve	bar	2.50
Expansion vessel	l	25

WPSF

WPSF

Benefits
› Multifunction brine filling unit
› Both microbubble separator and filter already integrated
› Easily removable filter element
› Preassembled components for source side
› Microbubble separator and filter already integrated (Product: 233307)
› Filter element easy to remove (Product: 233307)
› All important components for the source side are pre-assembled (Product: 233307)

Description • This multifunction filling unit can be used for ground source heat pumps with a heating output of up to 16 kW. It is used to fill or flush the brine circuit and facilitates easy and quick installation on the heat source side. • The standard delivery includes the brine safety valve, pressure gauge, filter, quick-action air vent valve, microbubble separator and vapour diffusion-proof insulation.

		WPSF
Part number		**233307**

next page >

		WPSF
Specification		
Connection, heat source side		G 1 1/4 A
Safety valve response pressure	MPa	0.30
Max. application limit, heat source	°C	40
Min. application limit, heat source	°C	-5
Max. operating pressure	MPa	0.60

DWS

DWS1

Benefits
› Adjustable switching point

Description • The brine pressure switch for geothermal collectors and probes is used in accordance with VDI 4640 for leak detection. • The switching point can be set between 0.08 MPa and 0.15 MPa. • If an audible or visual signal is required, an additional appropriate signal transmitter can be installed.

		DWS1
Part number		**221382**

Included in standard delivery: pressure hose

AG

MAG 12

Benefits
› Colour: white
› For floorstanding installation (Product: 235221)

Description • The brine-resistant diaphragm expansion vessel for ground source heat pumps has a rolling diaphragm for pressure maintenance and volume compensation for the heat source side.

		MAG 12	MAG 18	MAG 25	MAG 50
Part number		**235218**	**235219**	**235220**	**235221**
Specification					
Expansion vessel	l	12	18	25	50
Pre-charge pressure	bar	0.50	0.50	0.50	0.50

MEG

Benefits
- Ethylene glycol with excellent heat transfer properties
- Available in two container sizes

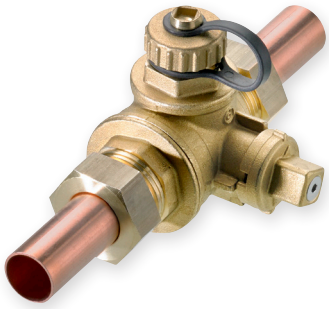
Description • Heat transfer medium for ground source heat pumps, to protect against frost and corrosion on the heat source side.

MEG 30

		MEG 30
Part number		**161696**
Specification		
Type of liquid		Ethylene glycol
Liquid content	l	30

The concentrate must be mixed with water prior to filling the heat source system. Observe the mixing ratio shown in the heat pump instructions. Heat transfer medium MEG, mix with water prior to filling into the system.
Never use potassium carbonate in connection with hemp gaskets. (Product: 161696)

FS-WP



Benefits
- Easily removable filter element
- Brass body
- Can be installed vertically or horizontally
- With backflushing facility (Product: 233511)
- With a removable filter (Product: 233512)

Description • The filter to protect the ground source heat pump against impurities is installed in the return of the heat generator.

FS-WP 22

		FS-WP 22	FS-WP 28
Part number		**233511**	**233512**
Specification			
Connection		G 1 A / Cu 22 x 1	G 1 1/4 A / Cu 28 x 1.5

MFS-WP

Benefits
- Filter set with pressure gauge
- Backflushing facility included
- Replaceable strainers in the dirt traps
- With removable filter element, pressure gauge and ball valve (Product: 235234)

Description • The filter to protect the ground source heat pump against impurities is installed in the return of the heat generator. • The integral pressure gauge shows the system pressure.

MFS-WP 28

		MFS-WP 28
Part number		**235234**
Specification		
Connection		G 1 1/4 A / Cu 28 x 1.5

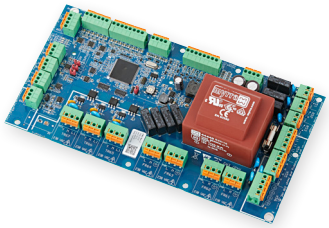
SDB 40-50 G

Description • The uninsulated pressure hose for the brine flow line and the brine return line is equipped with a threaded fitting at one end, while the other end offers a locking ring fitting.

SDB 40-0.8 G

		SDB 40-0.8 G	SDB 50-0.8 G
Part number		**201713**	**201714**
Specification			
For pressure hose size DN		40	50

EM 33-87



Benefits
› Extension module for extended WPMG controller functions
› Suitable for installation in the heat pump

Description • The extension module is used for actuating other functions and integrating additional heating circuits or heat generators, for example.

EM 33-87

		EM 33-87
Part number		**201715**

EMW

Benefits
› Extension module for extended WPMG controller functions
› A wall mounted enclosure for installation direct onto the wall is included in the standard delivery

Description • The extension module is used to control extra functions, such as additional heating circuits or heat generators. The module is supplied with a wall mounted enclosure.

EMW

		EMW
Part number		**202062**
Specification		
Width	mm	300
Height	mm	180
Depth	mm	109

HG Set 33-87

Benefits
› Hot gas set

Description • The set for DHW heating via hot gas consists of a circulation pump and a line regulating valve.

HG Set 33-87

		HG Set 33-87
Part number		**201716**
Specification		
Power consumption	W	6
Rated voltage	V	230

FEG

Benefits
› Remote control for adjusting room temperature or heating circuit temperature

Description • The remote control is combined with the WPMG controller. • The integral sensor measures the room temperature in the lead room; the room temperature or set temperature can be adjusted.

FEG

		FEG
Part number		**201767**

TAF PT

Description • The PT 1000 sensor is used in heat pump systems as an immersion or contact sensor.

TAF PT 5m

		TAF PT 5m	TAF PT 2m
Part number		**235995**	**235996**
Specification			
Version		Temperature sensor	Temperature sensor
With supply line		•	•
Colour		white	white
Diameter	mm	6	6

(Product: 235995, 235996)

AF PT

Benefits
- Outside temperature sensor for surface-mounted installation
- Weather-resistant casing
- Supply line included in delivery

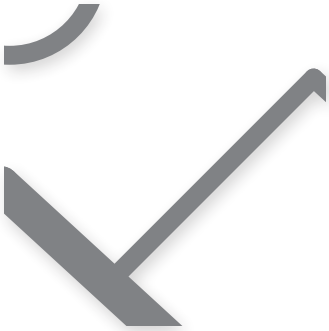
Description • The outside temperature sensor in a plastic enclosure is supplied without a cable.

AF PT

		AF PT
Part number		**235997**
Specification		
Version		Outside sensor
Installation type		Surface-mounted
With supply line		-
Width	mm	40
Height	mm	82
Depth	mm	38

Accessories

AWG 80



Benefits
- Complete set for safety concept of indoor ground source heat pumps with natural refrigerant (R290)
- Aluminium flex pipe set DN 80 including gaskets

Description • Accessory set consisting of DN 80 wall outlet for external walls up to 550 mm wall thickness including weather grille, rodent guard, check valve and two 5 m DN 80 aluminium flexible pipes. • Ideal for extract air routing for ground source heat pumps with natural refrigerant and power of less than 20 kW.

AWG 80

		AWG 80
		NEW
Part number		**207743**

AHP-TC

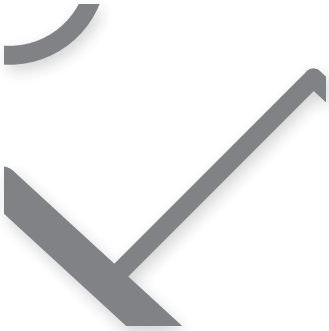
Benefits
- Elegant design cover
- Easy installation thanks to magnetic fixing

Description • Design fascia conceals the pipe connections at the top of the heat pump, for visually refined installation. • Easy installation thanks to magnetic fixing of the fascia.

AHP-TC

		AHP-TC
		NEW
Part number		**207744**
Specification		
Width	mm	600
Length	mm	700

AHP-PH



AHP-PH

Benefits
› Accessories for installing external heat meters in ground source heat pumps

Description • Pipe set for integrating external heat meters with a gauge of 130 mm.

		AHP-PH
		NEW
Part number		**207742**

Control units		299
Hydraulic modules		307
Accessories for hydraulic modules		309
Integral cylinder		311
Accessories for integral cylinders		319
DHW cylinder		321
Accessories for DHW cylinders		325
Instantaneous water cylinder		327
Accessories for instantaneous water cylinders		331
Buffer cylinder		333
Accessories for buffer cylinders		341
Additional accessories		347
Heat pump accessories		351

Accessories for heat pumps and cylinders

Controller
Accessories 300
Connectivity
Accessories 302
Controller accessories
Accessories 303

WPM

WPM international

Benefits

- Heat pump manager in stylish wall mounted enclosure
- Management of a 2-stage on/off or inverter cascade for one direct heating circuit and two heating circuits with mixer
- Straightforward electrical installation thanks to RAST 5 connector technology
- Integral heat metering
- Cooling control function
- A second heat generator can be controlled
- Screed drying program
- DHW circulation pump management
- PWM circulation pump management
- 3 immersion/contact sensors and 1 outside sensor are included in the standard delivery
- Fault output 230 V
- Update via an SD card
- An internet interface is available as an option
- SG Ready (optional)
- Smart home and energy management interfaces (optional)

Description • This WPM heat pump manager is the main controller in the system. One direct heating circuit and two heating circuits with mixer can be controlled via the integral programming unit. Two heat pumps can also be operated in a cascade. • In combination with the ISG Internet Service Gateway, the heat pump can be integrated into a home network or controlled from mobile devices. • Direct connection of high efficiency circulation pumps is possible via relay outputs or PWM outputs. • The WPM also provides a fault contact for external pick-up of system faults. • A drip-proof wall mounted enclosure with large installation area provides sufficient space for the electrical connections and other components such as a top-hat rail relay. The well designed cable layout ensures easy connection.

		WPM international
		DISCONT. PRODUCT
Part number		**236000**
Specification		
Protection class		I
Supply voltage	V	230
IP rating		IP21
Width	mm	310
Height	mm	400
Depth	mm	100

International operating instructions
Controller, 1 AF PT outside temperature sensor, 3 TAF PT sensors (Product: 236000)

WPM Connect

WPM Connect International

Benefits
- Heat pump manager in stylish wall mounted enclosure
- Integral WLAN and Ethernet connectivity
- Diagnostics and control via mobile devices possible
- Management of a 2-stage on/off or inverter cascade for one direct heating circuit and two heating circuits with mixer
- Straightforward electrical installation thanks to RAST 5 connector technology
- 3 immersion/contact sensors and 1 outside sensor are included in the standard delivery

Description • This WPM Connect heat pump manager is the main controller in the system. The built-in programming unit is controlled via a colour touchscreen with intuitive user guidance. • The appliance controls one direct heating circuit and two heating circuits with mixer. Two heat pumps can also be operated in a cascade. • Thanks to the integral WLAN and Ethernet connectivity, remote diagnostics by the qualified contractor are possible, as is control with mobile devices via the MyStiebel app. • High efficiency circulation pumps can be connected directly via relay outputs or PWM outputs. The heat pump manager offers integrated heat metering, cooling control function, screed drying program and management of circulation and DHW circulation pumps. • The WPM also provides a fault contact for external pick-up of system faults. • A drip-proof design wall mounted enclosure with large installation area provides sufficient space for the electrical connections and other components such as a top-hat rail relay. The well designed cable layout ensures easy connection.

		WPM Connect International
		NEW
Part number		**207709**

WPE

WPE

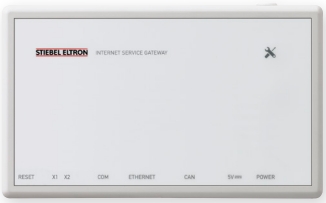
Benefits
- Function extension module for the WPM heat pump manager
- Data link via the system bus
- Straightforward electrical installation thanks to RAST 5 connector technology
- The sensor is adjusted and operated via the programming unit on the WPM heat pump manager
- Management of 4 additional heat pump stages
- Two additional heating circuits with mixer can also be controlled
- Swimming pool management
- Universal differential controller
- 3 immersion/contact sensors are included in the standard delivery

Application • This WPE heat pump extension adds numerous functions to the WPM heat pump manager. It offers two additional heating circuits with mixer, a swimming pool controller and cascade control for up to six heat pumps. Two additional 0-10 V interfaces, a differential controller and switching outputs are also available. • The enclosure is installed to the right or left of the WPM and is connected to the power supply via the bus. • The module's additional functions can be set at the programming unit of the WPM.

		WPE
Part number		**234725**
Specification		
Protection class		I
Supply voltage	V	230
IP rating		IP21
Width	mm	310
Height	mm	400
Depth	mm	100
Required accessories		
Part number		**236000**
Type		WPM international
Description		Heat pump manager in wall mounted enclosure

Controller, 3 TAF PT sensors (Product: 234725)

ISG web



Benefits

- Browser-based operation of the heat pump in a home network
- Can be integrated into home automation systems through Modbus TCP/IP software interface fitted as standard
- Forecast-based on-site PV self-consumption facilitated by optional EMI software extension
- Optional automation with KNX IP software extension

Description • The ISG Internet Service Gateway connects the heat pump to the home network and enables the appliance to be operated using a browser. • Once enabled, appliance data is transferred to the Stiebel Eltron Internet Service Portal. • The ISG plus is a required accessory for use of the SG Ready functions of the WPM heat pump manager. The ISG can be integrated into an existing building management system via the Modbus TCP/IP data interface.

ISG web

		ISG web
Part number		**229336**
Specification		
Version		Wall mounting
10/100 Ethernet		RJ45
CAN		RJ45
RS232		RJ12
Width	mm	158
Height	mm	95
Depth	mm	37
Min./max. application range	°C	0 / 60

Observe the compatibility list.

FET

Benefits
- Data link via the system bus
- Room remote control with thermostatic function for the WPM heat pump manager
- Can be used for each of the 5 heating circuits in the WPM system
- Illuminated graphic display
- Display of time, room temperature and room humidity, along with outside temperature
- Touch-Wheel operation
- Room temperature and humidity measurement
- Simple adjustment of comfort temperature
- Energy savings with selectable eco function
- Activating a DHW charging process

FET

Description • The FET digital remote control can be used to conveniently control a heating zone. • The remote control measures the relative humidity and room temperature.

		FET
Part number		**234723**
Specification		
Width	mm	145
Height	mm	96
Depth	mm	31

TAF PT

Description • The PT 1000 sensor is used in heat pump systems as an immersion or contact sensor.

TAF PT 5m

		TAF PT 5m	TAF PT 2m
Part number		**235995**	**235996**
Specification			
Version		Temperature sensor	Temperature sensor
With supply line		•	•
Colour		white	white
Diameter	mm	6	6

(Product: 235995, 235996)

AF PT

Benefits
- Outside temperature sensor for surface-mounted installation
- Weather-resistant casing
- Supply line included in delivery

Description • The outside temperature sensor in a plastic enclosure is supplied without a cable.

AF PT

		AF PT
Part number		**235997**
Specification		
Version		Outside sensor
Installation type		Surface-mounted
With supply line		-
Width	mm	40
Height	mm	82
Depth	mm	38

AVF 6

Description • The PTC contact sensor is used as an additional sensor in a heat pump system.

AVF 6

		AVF 6
Part number		**165341**
Specification		
Version		Cable sensor
With supply line		•
Supply line length	m	2.00
Diameter	mm	6

TF 6

Benefits
› Supply line (1 m) included in the delivery
› Sensor diameter: 6 mm

Description • The TF 6 is an additional PTC immersion sensor for the heat pump system.

TF 6

		TF 6
Part number		**165342**
Specification		
Version		Temperature sensor
With supply line		•
Supply line length	m	1.00
Diameter	mm	6

Mono mode
Accessories 308

HM Trend

HM Trend

Benefits
- Time saving installation of heating components thanks to high level of integration
- Simple connection to the heat pump via water pipes
- Very good thermal insulation for heating and cooling, with main body in expanded polypropylene (EPP)

Application • This hydraulic module is suitable for simple hydraulic connection of mono block heat pumps to the heating system. The appliance is designed for heating or cooling in family houses. • The insulated, black EPP casing is mounted on the wall in the installation room to save space.

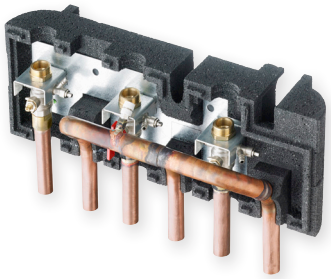
Convenience features • The fully automatic, weather-compensated control of the heating system is provided by the integral heat pump manager. In combination with the optional Internet Service Gateway, the system can be controlled in the home network or with a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • High level of integration: a high efficiency circulation pump and an expansion vessel are already included for the heating circuit. Also integrated are the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the heating diverter valve for DHW heating and a safety valve with drain pipe.

		HM Trend	HMS Trend
Part number		**232805**	**233826**
Specification			
Max. permissible pressure	MPa	0.30	0.30
External available pressure differential at 1.0 m³/h	hPa	715	715
External available pressure differential at 1.5 m³/h	hPa	661	661
External available pressure differential at 2 m³/h	hPa	468	468
External available pressure differential at 2.5 m³/h	hPa	300	300
Expansion vessel volume	l	24	24
Rated voltage, control unit	V	230	230
Rated voltage, emergency/auxiliary heater	V	400	230
Power consumption, emergency/auxiliary heater	kW	8.80	5.90
Height	mm	896	896
Height incl. connector block	mm	1131	1131
Width	mm	590	590
Depth	mm	405	405
Weight	kg	27	27
Connection		G 1	G 1
Recommended accessories			
Part number		**232806**	**232806**
Type		ASL-HM	ASL-HM
Description		Insulated connector block	Insulated connector block
Part number		**233750**	**233750**
Type		AS-HM Trend	AS-HM Trend
Description		Hydraulic module connection set	Hydraulic module connection set

Accessories
Accessories 310

Accessories

ASL-HM



Benefits
- Thermally insulated connector block
- Simplifies installation of hydraulic module
- Expanded polypropylene casing

Description • The accessories facilitate connection of the hydraulic module to the pipework on site. • The standard delivery includes flow lines with ball valve as well as the heating and DHW return lines, encased in vapour diffusion-proof EPP.

ASL-HM

		ASL-HM
Part number		**232806**
Specification		
Height	mm	285
Width	mm	580
Depth	mm	215
Weight	kg	4.50
Connection		28 mm

AS-HM Trend

Benefits
- For connecting the hydraulic module in the Trend series
- Three ball valves with drain

Description • The accessory, featuring ball valves in the flows, simplifies connection of the hydraulic module to the on-site pipework.

AS-HM Trend

		AS-HM Trend
Part number		**233750**
Specification		
Connection		G 1 - 28 mm

With integral buffer cylinder
Accessories 312
Without integral buffer cylinder
Accessories 317

HSBC 300 cool

HSBC 300 cool

Benefits

- The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- Large area heat exchanger for high DHW demand
- Can be used for cooling via area heating system or fan coil units (condensation resistance)
- The integral WPM heat pump manager makes the system easier to install

Application • This integral cylinder is suitable for DHW heating in heat pump mode. • The appliance is prepared for the optional addition of another heating circuit. • The equipment simplifies the hydraulic connection in heating systems, as the heat pump and heating circuit flows are separated by means of an integral buffer cylinder. This means that it can be used in different heat distribution systems. • Can be used for heating and cooling in a family house (new or existing building).

Convenience features • DHW cylinder and buffer cylinder are steel cylinders with directly applied foam insulation. The DHW cylinder is equipped with an internal indirect coil and magnesium signal anode for additional corrosion protection. The two cylinders are mounted one above other to save space; practical recessed grips facilitate handling. • Space saving installation through integration of key components in a single casing: WPM heat pump manager, cylinder charging pump, circulation pump and 3/2-way diverter valve. • Easy to handle, as the DHW cylinder and the buffer cylinder can be transported separately.

Efficiency • Low standby losses as both the cylinder volume and the heat exchanger surface area are matched to requirements.

Installation • The DHW and buffer cylinders are arranged one above the other and can be separated. Two recessed grips facilitate transport to the installation site.

		HSBC 300 cool
Part number		**203801**
Specification		
Energy efficiency class		B
Nominal capacity, DHW cylinder	l	270
Nominal capacity, buffer cylinder	l	100
Surface area, heat exchanger	m²	3.20
Capacity, heat exchanger	l	21
Standby energy consumption/24 h at 65 °C	kWh	1.50
Height	mm	1918
Width	mm	680
Depth	mm	910
Height when tilted	mm	2123
Weight	kg	250
Recommended accessories		
Part number		**238825**
Type		HSBC 3-HKM
Description		Mixer circuit pump assembly

Availability on request

HSBC 300 (L) cool

HSBC 300 L cool

Benefits
- The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- High level of integration for reduced installation effort
- Large cylinder volume and heat exchanger surface area for high DHW demand
- Can be used for cooling, e.g. via an area heating system or fan coil units (condensation resistance)
- Not equipped with a cylinder charging pump for combination with recommended heat pump types (Product: 238826)

Application • This integral cylinder for heat pump operation is suitable for DHW heating. Furthermore, the integral cylinder is integrated into heating systems for the hydraulic connection and is used for delivery to/separation between the heat pump and heating circuit. The appliance is suitable for heating and cooling in family houses.

Convenience features • The generously sized DHW cylinder has an enamelled steel cylinder with directly applied foam insulation. • The internal indirect coil and signal anode offer additional corrosion protection. • The integral cylinder is equipped with a circulation pump and a 3/2-way diverter valve. • The appliance can optionally be operated with a heating circuit with mixer. • The cylinder casing consists of a plastic jacket, permanently attached at the back and sides. The removable front made of sheet metal has a design cover.

Efficiency • Standby losses are low because the cylinder volume and the indirect coil surface area have been optimised.

Installation • The cylinders are arranged one above the other and can be separated. Integral recessed grips facilitate transport to the installation site.

		HSBC 300 L cool
Part number		**238826**
Specification		
Energy efficiency class		B
Nominal capacity, DHW cylinder	l	270
Nominal capacity, buffer cylinder	l	100
Surface area, heat exchanger	m²	3.20
Capacity, heat exchanger	l	21
Standby energy consumption/24 h at 65 °C	kWh	1.50
Height	mm	1918
Width	mm	680
Depth	mm	910
Height when tilted	mm	2123
Weight	kg	248
Recommended accessories		
Part number		**238825**
Type		HSBC 3-HKM
Description		Mixer circuit pump assembly

With integral buffer cylinder

HSBC 200

HSBC 200

Benefits

- The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- Installation requires little effort thanks to high level of integration including WPM heat pump manager
- Can be used for cooling, for example with an area heating system
- Large area heat exchanger for high DHW demand

Application • This integral cylinder is suitable for DHW heating in heat pump mode. It is used simultaneously for the hydraulic connection of the heat pump to the heating system and for delivery to/separation between the heat pump and heating circuit. • Designed for heating and cooling in family houses.

Convenience features • DHW cylinder and buffer cylinder are enamelled steel cylinders with directly applied foam insulation. The DHW cylinder is equipped with an internal indirect coil and a signal anode for additional corrosion protection. • Space saving installation is made possible through the integration of key components in a single casing. Standard delivery includes the WPM heat pump manager, cylinder charging pump, circulation pump and 3/2-way diverter valve. • The integral cylinder is easy to manoeuvre as the DHW cylinder and the buffer cylinder can be transported separately. • The integral cylinder can optionally be operated with a heating circuit with mixer. • The cylinder casing consists of a plastic jacket that is permanently attached at the sides and the back; the removable front has a design cover.

Efficiency • As the cylinder volume and the indirect coil surface area are optimally matched to the system, standby losses are only minimal and the DHW heating is very efficient.

Installation • The DHW and buffer cylinders are arranged one above the other during operation and can be separated for transport. Handling is made easy thanks to handle positions at top and bottom.

		HSBC 200	HSBC 200 S
Part number		**233510**	**234801**
Specification			
Energy efficiency class		B	B
Nominal capacity, DHW cylinder	l	168	168
Nominal capacity, buffer cylinder	l	100	100
Surface area, heat exchanger	m²	3.30	3.30
Capacity, heat exchanger	l	21	21
Standby energy consumption/24 h at 65 °C	kWh	1.30	1.30
Height	mm	1908	1908
Width	mm	680	680
Depth	mm	871	871
Height when tilted	mm	2107	2107
Weight	kg	203	203
Recommended accessories			
Part number		**234648**	**234648**
Type		HSBC-HKM	HSBC-HKM
Description		Mixer circuit pump assembly	Mixer circuit pump assembly

HSBC 200 L

HSBC 200 L

Benefits
- High level of integration for reduced installation effort
- The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- Can be used for cooling, for example with an area heating system

Application • This integral cylinder for heat pump operation is suitable for DHW heating. Furthermore, the integral cylinder is integrated into heating systems for the hydraulic connection and is used for delivery to/separation between the heat pump and heating circuit. The appliance is suitable for heating and cooling in family houses.

Convenience features • DHW cylinder and buffer cylinder are enamelled steel cylinders with directly applied foam insulation. The DHW cylinder is equipped with an internal indirect coil and a signal anode for additional corrosion protection. • Space saving installation and integral circulation pump • The integral cylinder can optionally be operated with a heating circuit with mixer. • The cylinder casing consists of a plastic jacket, permanently attached at the back and sides.

Efficiency • Standby losses are low, because the cylinder volume and the indirect coil surface area are perfectly matched to the application area.

Installation • The cylinders are arranged one above the other and can be separated. Integral recessed grips facilitate transport to the installation site.

		HSBC 200 L
Part number		**236684**
Specification		
Energy efficiency class		B
Nominal capacity, DHW cylinder	l	180
Nominal capacity, buffer cylinder	l	100
Surface area, heat exchanger	m²	1.60
Capacity, heat exchanger	l	10
Standby energy consumption/24 h at 65 °C	kWh	1.30
Height	mm	1908
Width	mm	680
Depth	mm	800
Height when tilted	mm	2107
Weight	kg	185
Recommended accessories		
Part number		**234648**
Type		HSBC-HKM
Description		Mixer circuit pump assembly

HSBC 180 plus

HSBC 180 Plus

Benefits

- The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- Installation requires little effort thanks to high level of integration including WPM heat pump manager
- Can be used for cooling via area heating system or fan coil units (condensation resistance)

Application • This integral cylinder is used for DHW heating in combination with a heat pump. The appliance simplifies the hydraulic connection in heating systems, as the heat pump and heating circuit flows are separated by means of an integral buffer cylinder. • Designed for use in family houses for heating and cooling.

Convenience features • Standard delivery includes: WPM heat pump manager, cylinder charging pump, circulation pump, 3/2-way diverter valve, safety valve with drain routed out of the appliance, and electric emergency/auxiliary heater. • The DHW cylinder is an enamelled steel cylinder with directly applied foam insulation. It is equipped with an internal indirect coil and a magnesium anode for additional corrosion protection. The buffer cylinder is also a steel cylinder with directly applied foam insulation.

Application • Specific matching of the cylinder volume and the indirect coil surface area to the application ensures low standby losses.

Installation • The integral carrying aids facilitate transportation to the installation site.

		HSBC 180 Plus	HSBC 180 S Plus
Part number		**202927**	**203082**
Specification			
Energy efficiency class		B	B
Nominal capacity, DHW cylinder	l	178	178
Nominal capacity, buffer cylinder	l	80	80
Surface area, heat exchanger	m²	1.59	1.59
Capacity, heat exchanger	l	10	10
Standby energy consumption/24 h at 65 °C	kWh	1.29	1.29
Height	mm	1910	1910
Width	mm	605	605
Depth	mm	917	917
Height when tilted	mm	1986	1986
Weight	kg	134	134
Recommended accessories			
Part number		**204642**	**204642**
Type		CDT 180	CDT 180
Description		Cooling accessories	Cooling accessories

Availability on request

Without integral buffer cylinder

HSBB 180 plus

HSBB 180 Plus

Benefits

- The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- Space saving positioning, as the DHW cylinder and hydraulic parts are integrated in a single appliance
- Can be used for cooling via area heating system or fan coil units (condensation resistance)
- Installation requires little effort thanks to high level of integration including WPM heat pump manager

Application • This integral cylinder is suitable for DHW heating. The appliance is integrated into the heating system and connects the heat pump hydraulically to the heating circuit. • The cylinder is designed for heating and cooling in the single-family house and is optimised for use with an underfloor heating system.

Convenience features • The DHW cylinder comprises an enamelled steel cylinder with foam insulation, an internal indirect coil and a magnesium anode for additional corrosion protection. Can be used for cooling via underfloor heating system or fan coil units. • Equipment includes: WPM heat pump manager, DHW/heating circuit charging pump, 3/2-way diverter valve, safety valve with drain connector, and electric emergency/auxiliary heater. • Carrying aids are integrated to simplify transport.

Efficiency • Low standby losses.

Installation • The integral carrying aids facilitate transportation to the installation site.

		HSBB 180 Plus	HSBB 180 S Plus
Part number		**202926**	**203084**
Specification			
Energy efficiency class		B	B
Nominal capacity, DHW cylinder	l	178	178
Surface area, heat exchanger	m²	1.59	1.59
Capacity, heat exchanger	l	10	10
Standby energy consumption/24 h at 65 °C	kWh	1.29	1.29
Height	mm	1300	1300
Width	mm	605	605
Depth	mm	917	917
Height when tilted	mm	1420	1420
Weight	kg	99	99
Suitable for		Heat pump	Heat pump
Recommended accessories			
Part number		**204642**	**204642**
Type		CDT 180	CDT 180
Description		Cooling accessories	Cooling accessories

Availability on request

Without integral buffer cylinder

Accessories
Accessories 320

Accessories

HSBC (3)-HKM

HSBC-HKM

Benefits
- Pump assembly for an additional heating circuit with mixer
- Heating circuit connection: 22 mm
- Integral cylinder accessories

Description • The pump assembly mixer circuit adds a heating circuit with mixer to the integral cylinder. • The assembly comprises the insulated connection pipework, heating circuit pump and 3-way mixer with servomotor. It is intended for use inside the integral cylinder using the prepared connections.

		HSBC-HKM	HSBC 3-HKM
Part number		**234648**	**238825**
Specification			
Connection, heating circuit	mm	22	22

CDT

CDT 180

Benefits
- Condensate pan with condensate pump for installation in the integral cylinder
- Used for seasonal cooling below the dew point or for cooling without dew point monitoring

Description • The condensate pan with condensate pump is installed in an integral cylinder. • It needs to be used for seasonal cooling below the dew point temperature or if, for example, fan coil units provide cooling without dew point monitoring. • Without this accessory, cooling rooms is only permissible with dew point temperature monitoring. • Standard delivery includes the condensate pan with condensate pump, hose for external drainage, wiring harness for the electrical connection and installation accessories.

		CDT 180
Part number		**204642**

DHW cylinder
Accessories 322

DHW cylinder

SBB 301-501 WP SOL

SBB 301 WP

Benefits

- DHW cylinders for use in combination with heating heat pumps
- Large mixed water amount due to matched inlet and outlet flow technology
- Large area heat exchanger for high DHW demand
- Installation-friendly fittings including signal anode and flexible, multi-directional cold water connection
- Additional application range thanks to integral solar indirect coil (Product: 221362, 227534)

Application • This DHW cylinder is suitable for operation with heat pumps. It can be used for DHW supply in family houses and apartment buildings, depending on the nominal capacity and the indirect coil surface area.

Convenience features • The enamelled steel cylinder with foam insulation is equipped with an inspection flange and a protective anode for additional corrosion protection. • The heat pump is connected via the internal indirect coil. A plug-in dial thermometer is included in the standard delivery. • The cylinder casing can be removed for transport to the installation site.

		SBB 301 WP	SBB 302 WP	SBB 401 WP SOL	SBB 501 WP SOL
Part number		**221360**	**221361**	**221362**	**227534**
Specification					
Energy efficiency class		C	C	C	
Nominal capacity	l	301	290	395	495
Surface area, heat exchanger, top	m²	3.20	4.80	4.00	5.00
Surface area, heat exchanger, bottom	m²			1.40	1.40
Standby energy consumption/24 h at 65 °C	kWh	2.10	2.10	2.40	2.40
Height	mm	1710	1710	1880	1988
Diameter incl. thermal insulation	mm	700	700	750	810
Height when tilted	mm	1,750	1,750	1,930	2,035
Weight	kg	156	184	219	260

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. (Product: 221362)

STD 180-520-1 Plus

STD 315-1 Plus

Benefits

- DHW cylinders for combination with heating heat pumps
- Low standby losses for efficient operation
- Protective anode for corrosion protection as standard
- Available in 300, 400 or 500 litre versions depending on the DHW demand

Application • This DHW cylinder is suitable for combination with a heating heat pump and is intended for use in family houses. • Available in 300, 400 or 500 litre versions depending on the DHW demand. • Long service life through integral corrosion protection.

		STD 315-1 Plus	STD 420-1 Plus	STD 520-1 Plus
Part number		**204784**	**204785**	**204786**
Specification				
Energy efficiency class		B	B	B
Nominal capacity	l	314	418	522
Surface area, heat exchanger, top	m²	2.00	2.60	3.20

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DHW cylinder

		STD 315-1 Plus	STD 420-1 Plus	STD 520-1 Plus
Standby energy consumption/24 h at 65 °C	kWh	1.70	1.80	1.90
Height	mm	1619	1799	1904
Diameter incl. thermal insulation	mm	650	730	780
Height when tilted	mm	1,750	1,946	2,063
Weight	kg	111	139	182

SBB 600-1000 WP SOL

SBB 600 WP SOL

Benefits

- Additional application range thanks to integral solar indirect coil
- DHW cylinder for combination with heating heat pumps with high output
- Large heat exchanger surface area for high DHW demand through the use of twin pipe indirect coils

Application • This DHW cylinder is suitable for operation with high capacity heat pumps. The appliance is used in apartment buildings or commercial properties, depending on the capacity and surface area of the indirect coils. • Optional integration of solar thermal backup is possible.

Convenience features • The enamelled steel cylinder is equipped with a magnesium signal anode for additional corrosion protection. • Features two internal twin pipe indirect coils: the lower coil is for the solar thermal system; the upper one for the heat pump. For heat pumps with a higher output, the two indirect coils can be connected in series. • The inspection flanges are fitted with blank flanges. If required, additional heat exchangers or electric flanged immersion heaters can be fitted.

Efficiency • Low standby losses if the thermal insulation available as an accessory is used. • Good temperature stratification is ensured by matched inlet and outlet technology.

		SBB 600 WP SOL	SBB 800 WP SOL	SBB 1000 WP SOL
Part number		**235906**	**235907**	**235908**
Specification				
Height	mm	1775	1943	2153
Height when tilted	mm	1,813	1,990	2,185
Weight	kg	256	302	321
Required accessories				
Part number		**235909**		
Type		WDH 600 SBB		
Description		Thermal insulation		
Part number			**235910**	
Type			WDH 800 SBB	
Description			Thermal insulation	
Part number				**235911**
Type				WDH 1000 SBB
Description				Thermal insulation
Recommended accessories				
Part number		**232629**	**232629**	**232629**
Type		WRV 40	WRV 40	WRV 40
Description		Corrugated pipe connector for indirect coils	Corrugated pipe connector for indirect coils	Corrugated pipe connector for indirect coils

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

(Product: 235906)The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. (Product: 235907)The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. (Product: 235908)

DHW cylinder

Accessories
Accessories 326

Accessories

WRV 32-40

WRV 32

Benefits
- Thermally insulated corrugated pipe
- Available in two nominal diameters

Description • The corrugated pipe connector is used to connect the lower and upper indirect coils. • Standard delivery includes the threaded end and a union nut.

		WRV 32	WRV 40
Part number		**232628**	**232629**
Specification			
Nominal diameter, corrugated pipe		DN 32	DN 40
Union nut fitting connection		G 1 1/2	G2

WDH 600-1000 SBB

WDH 600 SBB

Benefits
- Composite thermal insulation made from rigid foam and fleece
- Graphite inserts for good insulation properties
- Two insulation semi-shells to make it easier to match the shape

Description • The high grade thermal insulation made from EPS rigid foam is supplied with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure minimal heat losses. • The thermal insulation can be optimally adapted to the cylinder thanks to the wedge-shaped cut-outs and the fleece layer. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The integrated quick-release hook strip makes it easier to attach the thermal insulation.

		WDH 600 SBB	WDH 800 SBB	WDH 1000 SBB
Part number		**235909**	**235910**	**235911**
Specification				
Insulation for		SBB 600 WP SOL	SBB 800 WP SOL	SBB 1000 WP SOL
Thermal insulation thickness	mm	110	110	110
Standby energy consumption/24 h at 65 °C	kWh	2.70	3.00	3.40

Instantaneous water cylinder
Accessories 328

Instantaneous water cylinder

SBS 601-1501 W (W SOL)

SBS 601 W

Benefits

- Efficient operation through inlet device for demand-dependent, zoned charging
- Highly versatile, as it can be combined with various heat generators
- Space saving combination of heating buffer cylinder and DHW heating in a single unit
- Hygienic DHW heating through instantaneous water heater principle
- Additional application range thanks to integral solar indirect coil (Product: 229984, 229985, 229986, 229987)

Application • This combination instantaneous water cylinder is suitable for DHW heating. The appliance can be used both as a buffer cylinder for hydraulic separation between the heat pump and heating circuit, as well as for storing heating energy. • The instantaneous water cylinder is suitable for family houses, as well as apartment buildings with hydraulically interconnected appliances. • Integration of solar thermal backup is possible with SOL types.

Convenience features • The steel cylinder is equipped with an integral corrugated pipe indirect coil made of stainless steel, which ensures instantaneous DHW heating. • Connectors facing the front allow system-specific hydraulic connections. • An electric threaded immersion heater can be installed via the inspection port if required.

Efficiency • Low standby losses thanks to the high grade thermal insulation available as an accessory. • Matched inlet and outlet technology with integral PRO temp-Flow inlets ensures good temperature stratification. Flow turbulence is reduced by up to 60 percent.

		SBS 601 W	SBS 601 W SOL	SBS 801 W	SBS 801 W SOL
Part number		**229980**	**229984**	**229981**	**229985**
Specification					
Nominal capacity	l	613	599	759	740
Area of DHW cylinder heat exchanger	m²	6.00	6.00	6.50	6.50
Max. recommended collector aperture area	m²		12		16
Height incl. thermal insulation	mm	1,775	1,775	1,940	1,940
Diameter incl. thermal insulation	mm	970	970	1,010	1,010
Height when tilted	mm	1,840	1,840	1,880	1,880
Weight	kg	135	180	150	195
Required accessories					
Part number		**231925**	**231925**		
Type		WDH 601 SBS	WDH 601 SBS		
Description		Thermal insulation	Thermal insulation		
Part number				**231926**	**231926**
Type				WDH 801 SBS	WDH 801 SBS
Description				Thermal insulation	Thermal insulation
Recommended accessories					
Part number		**230312**	**230312**	**230312**	**230312**
Type		ZW 1 1/4	ZW 1 1/4	ZW 1 1/4	ZW 1 1/4
Description		DHW circulation set, instantaneous water cylinder	DHW circulation set, instantaneous water cylinder	DHW circulation set, instantaneous water cylinder	DHW circulation set, instantaneous water cylinder

		SBS 1001 W	SBS 1001 W SOL	SBS 1501 W	SBS 1501 W SOL
Part number		**229982**	**229986**	**229983**	**229987**
Specification					
Nominal capacity	l	941	916	1430	1399
Area of DHW cylinder heat exchanger	m²	8.70	8.70	10.00	10.00
Max. recommended collector aperture area	m²		20		30

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Instantaneous water cylinder

		SBS 1001 W	SBS 1001 W SOL	SBS 1501 W	SBS 1501 W SOL
Height incl. thermal insulation	mm	2,350	2,350	2,265	2,265
Diameter incl. thermal insulation	mm	1,010	1,010	1,220	1,220
Height when tilted	mm	2,285	2,285	2,225	2,225
Weight	kg	175	220	236	291
Required accessories					
Part number		**231927**	**231927**		
Type		WDH 1001 SBS	WDH 1001 SBS		
Description		Thermal insulation	Thermal insulation		
Part number				**231928**	**231928**
Type				WDH 1501 SBS	WDH 1501 SBS
Description				Thermal insulation	Thermal insulation
Recommended accessories					
Part number		**230312**	**230312**	**230312**	**230312**
Type		ZW 1 1/4	ZW 1 1/4	ZW 1 1/4	ZW 1 1/4
Description		DHW circulation set, instantaneous water cylinder	DHW circulation set, instantaneous water cylinder	DHW circulation set, instantaneous water cylinder	DHW circulation set, instantaneous water cylinder

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. (Product: 229984)

Instantaneous water cylinder

Accessories
Accessories 332

WDH 601-1501 SBS

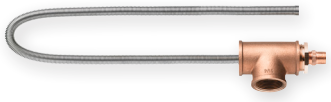
WDH 601 SBS

Benefits
- Graphite inserts for good insulation properties
- Two insulation semi-shells to make it easier to match the shape
- Composite thermal insulation made from rigid foam and fleece

Description • The high grade thermal insulation made from EPS rigid foam is supplied with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure minimal heat losses. • The thermal insulation can be optimally adapted to the cylinder thanks to the wedge-shaped cut-outs and the fleece layer. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The integrated quick-release hook strip makes it easier to attach the thermal insulation.

		WDH 601 SBS	WDH 801 SBS	WDH 1001 SBS	WDH 1501 SBS
Part number		**231925**	**231926**	**231927**	**231928**
Specification					
Insulation for		SBS 601 W, W SOL	SBS 801 W, W SOL	SBS 1001 W, W SOL	SBS 1501 W, W SOL
Thermal insulation thickness	mm	110	110	110	110
Standby energy consumption/24 h at 65 °C	kWh	2.60	2.90	3.50	4.10

ZW 1 1/4



ZW 1 1/4

Benefits
- The DHW circulation set is screwed onto the DHW connector
- The set comprises a tee and a stainless steel corrugated pipe
- Length: 950 mm (Product: 230312)

Description • The DHW circulation set for instantaneous water cylinders ensures quick and straightforward connection of the DHW circulation return to the DHW connection.

		ZW 1 1/4
Part number		**230312**
Specification		
Connection		G 1 1/4
DHW circulation connection		G 1/2

Buffer cylinder
Accessories 334

Buffer cylinder

SBP 100 classic

SBP 100 classic

Benefits
- Suitable for heating and cooling operation as the impermeable complete foam insulation on the buffer cylinder makes it suitable for cooling
- Particularly space saving for use in family homes
- Floorstanding buffer cylinder for integration into the heating system

Application • This buffer cylinder provides hydraulic separation between the heat pump and heating/cooling circuit.

Convenience features • The steel cylinder with directly applied foam insulation is equipped with a protective cover and connections at the top for ventilation and draining.

Efficiency • Reduced mixing due to matched inlet and outlet technology.

		SBP 100 classic
		NEW
Part number		**235200**
Specification		
Energy efficiency class		C
Nominal capacity	l	100
Standby energy consumption/24 h at 65 °C	kWh	1.20
Height	mm	877
Diameter	mm	510
Height when tilted	mm	968
Weight	kg	21

SBP 200-400 Plus cool

SBP 200 Plus cool

Benefits
- Connector for an electric threaded immersion heater in both the upper and lower third
- More efficient operation with inverter heat pumps
- Suitable for both heating and cooling modes
- Prepared for self-consumption of electricity from photovoltaic systems
- New appealing design

Application • This round, floorstanding buffer cylinder with its attractive design is suitable for heat pump heating systems in family houses. • It stores heat for heating operation but can also be used for cooling operation.

Convenience features • The steel cylinder with directly applied foam insulation has hydraulic connectors arranged at the front one above the other. • The buffer cylinder ensures hydraulic separation between the primary and secondary circuits. It is designed for the connection of a heat pump with high flow rates in the primary circuit. • In the upper section, there is a connector for the installation of an electric threaded immersion heater for electric reheating. In the lower section, there is another connector for an electric threaded immersion heater for charging the buffer cylinder. This can be used to increase self-consumption of electricity from a photovoltaic system, for example.

Efficiency • Low standby losses. • Prepared for self-consumption from a solar PV system.

		SBP 200 Plus cool	SBP 400 Plus cool
		NEW	NEW
Part number		**205295**	**205296**

next page >

Buffer cylinder

		SBP 200 Plus cool	SBP 400 Plus cool
Specification			
Energy efficiency class		B	B
Nominal capacity	l	207	415
Standby energy consumption/24 h at 65 °C	kWh	1.235	1.719
Height	mm	1510	1700
Height when tilted	mm	1637	1867
Recommended accessories			
Part number		**003711**	**003711**
Type		ET SBP	ET SBP
Description		Inserts	Inserts

STH 210-415 C Plus

STH 210 C Plus

Benefits
- Connector for an electric threaded immersion heater in both the upper and lower third
- More efficient operation with inverter heat pumps
- Suitable for both heating and cooling modes
- Prepared for self-consumption of electricity from photovoltaic systems
- New appealing design

Application • This round, floorstanding buffer cylinder with its attractive design is suitable for heat pump heating systems in family houses. • It stores heat for heating operation but can also be used for cooling operation.

Convenience features • The steel cylinder with directly applied foam insulation has hydraulic connectors arranged at the front one above the other. • The buffer cylinder ensures hydraulic separation between the primary and secondary circuits. It is designed for the connection of a heat pump with high flow rates in the primary circuit. • In the upper section, there is a connector for the installation of an electric threaded immersion heater for electric reheating. In the lower section, there is another connector for an electric threaded immersion heater for charging the buffer cylinder. This can be used to increase self-consumption of electricity from a photovoltaic system, for example.

Efficiency • Low standby losses. • Prepared for self-consumption from a solar PV system.

		STH 210 C Plus	STH 415 C Plus
		NEW	NEW
Part number		**205369**	**205370**
Specification			
Energy efficiency class		B	B
Nominal capacity	l	207	415
Standby energy consumption/24 h at 65 °C	kWh	1.163	1.719
Height	mm	1510	1700
Height when tilted	mm	1637	1867
Recommended accessories			
Part number		**003711**	**003711**
Type		ET SBP	ET SBP
Description		Inserts	Inserts

Buffer cylinder

SBP 200-700 E (SOL)

SBP 700 E

Benefits

- Easy to transport at the installation site as the casing can be removed if necessary
- Suitable for cooling due to complete thermal foam insulation of the cylinder
- Efficient thermal insulation allows use in heating and cooling modes
- Low standby losses for efficient operation
- Buffer cylinder for heating systems with heat pumps
- Additional application range thanks to integral solar indirect coil (Product: 185460)

Application • This buffer cylinder is suitable for heat pump heating systems in family houses (depending on the nominal capacity). It can also be used in cooling mode and enables hydraulic separation between the heat pump and heating circuit, extends the operating time of the heat pump and stores heating energy. • The buffer cylinder is designed for connecting heat pumps with high flow rates on the primary side. • Integration of solar thermal backup is possible with „SOL“ types.

Convenience features • The steel cylinder with directly applied foam insulation has hydraulic connectors arranged at the front, one above the other. Connectors are provided for installing electric threaded immersion heaters. • The SOL types also have an internal indirect coil for connection to a solar thermal system. • The cylinder casing consists of a plastic outer jacket, a cylinder cover and the plinth trim.

Efficiency • Low standby losses.

		SBP 700 E	SBP 700 E SOL
Part number		**185459**	**185460**
Specification			
Energy efficiency class		B	B
Nominal capacity	l	720	703
Surface area, heat exchanger, bottom	m²		2
Standby energy consumption/24 h at 65 °C	kWh	2.20	2.20
Height	mm	1890	1890
Diameter incl. thermal insulation	mm	910	910
Height when tilted	mm	2000	2000
Weight	kg	185	216
Recommended accessories			
Part number		**003711**	**003711**
Type		ET SBP	ET SBP
Description		Inserts	Inserts

Buffer cylinder

STH 210-720-1 Plus

STH 720 Plus

Benefits

- Easy to transport at the installation site as the casing can be removed if necessary
- Suitable for cooling due to complete thermal foam insulation of the cylinder
- Efficient thermal insulation allows use in heating and cooling modes
- Low standby losses for efficient operation
- Buffer cylinder for heat pump heating systems

Application • These buffer cylinders are suitable for heat pump heating systems and can also be used in cooling mode. • Provides hydraulic separation between the heat pump and the heating/cooling circuit, extends heat pump runtimes and stores heating energy. • Suitable for use in family houses, depending on nominal capacity. • A threaded immersion heater can be used to increase the PV self-consumption rate. The STH 720-1 Plus appliance can also be combined with a solar thermal system.

Convenience features • The steel cylinder with directly applied foam insulation has hydraulic connectors arranged at the front, one above the other. Connectors are also provided for electric threaded immersion heaters if required. • The cylinder casing consists of the plastic outer jacket, the cylinder cover and a plinth trim.

Efficiency • Low standby losses. • The buffer cylinders are designed for connecting heat pumps with high flow rates on the primary side.

		STH 720 Plus	STH 720-1 Plus
Part number		**203765**	**203766**
Specification			
Nominal capacity	l	720	703
Surface area, heat exchanger, bottom	m²		2
Standby energy consumption/24 h at 65 °C	kWh	2.20	2.20
Height	mm	1890	1890
Diameter incl. thermal insulation	mm	910	910
Height when tilted	mm	2000	2000
Weight	kg	185	216
Recommended accessories			
Part number		**003711**	**003711**
Type		ET SBP	ET SBP
Description		Inserts	Inserts

Availability on request

Buffer cylinder

SBP 1000-1500 E SOL

SBP 1000 E

Benefits

- Buffer cylinder for heating systems with large heat pumps
- Highly versatile, as it can be combined with various heat generators
- The buffer cylinder is designed for high flow rates with suitably sized flanged connections
- Additional application range thanks to integral solar indirect coil (Product: 227566)
- Suitable in multi storey construction thanks to extremely reliable operating pressure (Product: 236569)
- Additional flanged connection for special applications (Product: 236569)

Application • This buffer cylinder is combined with heating heat pumps in a large scale system and is suitable for use in apartment buildings and commercially used buildings. The appliance enables hydraulic separation between the heat pump and heating circuit flows, extends the operating time of the heat pump and stores heating energy.

Convenience features • The steel cylinder has flange connections arranged at the front, one above the other, for the primary and secondary circuit. There is also an additional connector for combination with further heat generators. An additional indirect coil or an electric flanged immersion heater can also be fitted as required for the specific system. For this purpose, a flanged aperture sealed with a blank flange has been integrated. The SOL types are, in addition, equipped with an internal smooth tube solar indirect coil.

Efficiency • Low standby losses in conjunction with the high grade thermal insulation as an accessory. • The matched inlet and outlet technology is responsible for the good temperature stratification. • The buffer cylinder is designed for connecting heat pumps with high flow rates on the primary side.

		SBP 1000 E	SBP 1000 E SOL	SBP 1010 E	SBP 1500 E	SBP 1500 E SOL
Part number		**227564**	**227566**	**236569**	**227565**	**227567**
Specification						
Nominal capacity	l	1006	979	1006	1503	1473
Surface area, heat exchanger, bottom	m²		3.00			3.60
Max. permissible pressure	MPa	0.30	0.30	1.00	0.30	0.30
Height incl. thermal insulation	mm	2340	2340	2340	2255	2255
Diameter incl. thermal insulation	mm	1010	1010	1010	1220	1220
Height when tilted	mm	2335	2335	2335	2250	2250
Weight	kg	172	219	233	229	285
Required accessories						
Part number				**201662**		
Type				WDH 1010 SBP		
Description				Thermal insulation		
Part number		**231929**	**231929**			
Type		WDH 1000 SBP	WDH 1000 SBP			
Description		Thermal insulation	Thermal insulation			
Part number					**231930**	**231930**
Type					WDH 1500 SBP	WDH 1500 SBP
Description					Thermal insulation	Thermal insulation
Recommended accessories						
Part number		**231884**	**231884**	**231884**	**231884**	**231884**
Type		BF 80 Set	BF 80 Set	BF 80 Set	BF 80 Set	BF 80 Set
Description		Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)
Part number		**231885**	**231885**	**231885**	**231885**	**231885**
Type		FG 80/2 Set	FG 80/2 Set	FG 80/2 Set	FG 80/2 Set	FG 80/2 Set
Description		Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)

Buffer cylinder

SBP 1000-1500 E cool

SBP 1000 E cool

Benefits

- Suitable for either heating or cooling operation
- Buffer cylinder for heating systems with large heat pumps
- Suitable for cooling due to combination of thermal insulation and pre-insulated cylinder
- Suitable in multi storey construction thanks to extremely reliable operating pressure (Product: 236570)

Application • This buffer cylinder is combined with heat pumps in apartment buildings or in commercial buildings. • The appliance can be used for heating and cooling. At the same time, it enables hydraulic separation between the heat pump and heating circuit flows, extends the operating time of the heat pump and stores heating energy.

Convenience features • Pre-insulated steel cylinder with flange connections arranged at the front, one above the other, for the primary and secondary circuit. Additional connectors for combining with extra heat generators. • A flanged aperture sealed with a blank flange is provided, so that the cylinder can be fitted with an additional indirect coil or electric flanged immersion heater.

Efficiency • The cooling-compatible high grade thermal insulation as an accessory, together with the insulation applied to the cylinder, result in low standby losses. This combination is an essential requirement for the buffer cylinder cooling capability. • Matched inlet and outlet technology enables good temperature stratification. • The buffer cylinder is designed for connecting heat pumps with high flow rates on the primary side.

		SBP 1000 E cool	SBP 1010 E cool	SBP 1500 E cool
Part number		**227588**	**236570**	**227589**
Specification				
Nominal capacity	l	1006	1006	1503
Max. permissible pressure	MPa	0.30	1.00	0.30
Height incl. thermal insulation	mm	2340	2340	2255
Diameter incl. thermal insulation	mm	1010	1010	1220
Height when tilted	mm	2335	2335	2250
Weight	kg	181	242	239
Required accessories				
Part number		**231921**	**231921**	
Type		WDH 1000 cool	WDH 1000 cool	
Description		Thermal insulation	Thermal insulation	
Part number				**231922**
Type				WDH 1500 cool
Description				Thermal insulation
Recommended accessories				
Part number		**231884**	**231884**	**231884**
Type		BF 80 Set	BF 80 Set	BF 80 Set
Description		Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)
Part number		**231885**	**231885**	**231885**
Type		FG 80/2 Set	FG 80/2 Set	FG 80/2 Set
Description		Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)	Set incl. blank flange or flange adaptor DN80 for buffer cylinder (2 pce)

Buffer cylinder

Accessories
Accessories 342

WPKI 5

WPKI 5-I

Benefits
- All parts are included in the compact installation
- Straightforward connection of a heating heat pump to a 200-700 litre buffer cylinder
- Only for heat pumps WITHOUT integral heating circuit pump
- Including insulation assembly for flow/return connector (Product: 205875)
- For heating heat pumps without integral circulation pump (Product: 205875)
- Integral non-return valve (Product: 205875)

Application • This compact installation includes all the components needed for the hydraulic connection of the heating heat pump to buffer cylinders with 200 to 700 litres. • The standard delivery includes: insulation, safety valve, thermometer/pressure gauge, shut-off valves, non-return valve and the option to connect a diaphragm expansion vessel, plus the DHW heating set. • The compact installation is only suitable for heating heat pumps without an integral heating circuit pump.

		WPKI 5-I
Part number		**205875**
Specification		
Connection		G 1 1/4
Max. operating pressure	MPa	0.30
Required accessories		
Part number		**201620**
Type		UP 25/7.5 PCV
Description		Heating circuit pump

BBI 5

BBI 5-I

Benefits
- Robust complete set for straightforward installation
- With integral non-return valve
- Only for heat pumps WITHOUT integral heating circuit pump
- Integral non-return valve (Product: 205877)

Description • The DHW heating kit is suitable for the compact installation of the buffer cylinder. • Contains all required components for the hydraulic connection of the heat pump to the DHW cylinder, including the insulation.

		BBI 5-I
Part number		**205877**
Specification		
Connection		G 1 1/4 / Cu 28 x 1.5
Max. operating pressure	MPa	0.30
Required accessories		
Part number		**201620**
Type		UP 25/7.5 PCV
Description		Heating circuit pump
Part number		**205875**
Type		WPKI 5-I
Description		WPKI 5 Compact installation

WPKI 6

Benefits
- For heat pumps WITH an integral heating circuit pump
- Straightforward connection of a heating heat pump to a 200-700 litre buffer cylinder
- All parts are included in the compact installation
- Including insulation assembly for flow/return connector (Product: 205876)
- For heating heat pumps with integral circulation pump (Product: 205876)

Description • The compact installation is suitable for the hydraulic connection of the heating heat pump (with integral heating circuit pump) to buffer cylinders with 200-700 l capacity. • All necessary components, including the insulation, are supplied.

WPKI 6-I

		WPKI 6-I
Part number		**205876**
Specification		
Connection		G 1 1/4
Max. operating pressure	MPa	0.30

ET SBP

Benefits
- SBP connection accessories
- For a tight fitting pipe connection without compact installation
- Standard delivery: 4 inserts, 4 gaskets, 4 G4 union nuts

Description • The adaptor fittings with female threads are suitable for the hydraulic connection of buffer cylinders with 200-700 l capacity. • The fittings are only required if a compact installation is not used.

ET SBP

		ET SBP
Part number		**003711**

BF FG Set

BF 80 Set

Benefits
- Flange diameter DN 80
- Material: steel

Description • Blank flange or flange adaptor. The set consists of two pieces per package.

		BF 80 Set	FG 80/2 Set
Part number		**231884**	**231885**
Specification			
Flange diameter		DN 80	DN 80
Threaded connection			G 2 A

incl. gasket and screws
Set consists of 2 x BF 80
Set consists of 2 x FG 80/2 (Product: 231885)

BF FG

BF 80

Description • Blank flange or flange adaptor DN 80 for buffer cylinder

		BF 80	FG 80/2
Part number		**205090**	**205091**
Specification			
Flange diameter		DN 80	DN 80
Threaded connection			G 2 A

incl. gasket and screws

WDH 1000-1500 SBP

WDH 1010 SBP

Benefits
- Composite thermal insulation made from rigid foam and fleece
- Graphite inserts for good insulation properties
- Two insulation semi-shells to make it easier to match the shape

Description • The high grade thermal insulation made from EPS rigid foam is supplied with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure minimal heat losses. • The thermal insulation can be optimally adapted to the cylinder thanks to the wedge-shaped cut-outs and the fleece layer. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The integrated quick-release hook strip makes it easier to attach the thermal insulation.

		WDH 1010 SBP	WDH 1000 SBP	WDH 1500 SBP
Part number		**201662**	**231929**	**231930**
Specification				
Insulation for		SBP 1010 E	SBP 1000 E and E SOL	SBP 1500 E and E SOL
Thermal insulation thickness	mm	110	110	110
Standby energy consumption/24 h at 65 °C	kWh	3.60	3.60	4.10

WDH 1000-1500 cool

WDH 1000 cool

Benefits
- Composite thermal insulation made from rigid foam and fleece
- Graphite inserts for good insulation properties
- Two insulation semi-shells to make it easier to match the shape
- A pre-insulated cylinder can be used for cooling in conjunction with this thermal insulation

Description • The high grade thermal insulation made from EPS rigid foam is supplied with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure minimal heat losses. • The thermal insulation can be optimally adapted to the cylinder thanks to the wedge-shaped cut-outs and the fleece layer. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The integrated quick-release hook strip makes it easier to attach the thermal insulation.

		WDH 1000 cool	WDH 1500 cool
Part number		**231921**	**231922**
Specification			
Insulation for		SBP 1000 E cool and SBP 1010 E cool	SBP 1500 E cool
Thermal insulation thickness	mm	110	110
Standby energy consumption/24 h at 65 °C	kWh	3.50	4.00

Accessories

Electric threaded immersion heaters and flanged immersion heaters
Accessories 348

Electric threaded immersion heaters and flanged immersion heaters

BGC

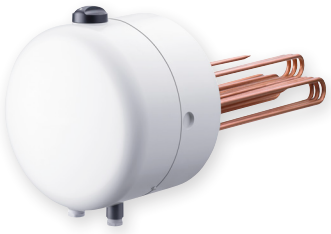
Benefits
- For matching to individual usage scenarios
- High hot water convenience thanks to powerful heating elements
- Variable temperature setting via rotary selector

Application • This threaded immersion heater is suitable for sealed unvented heating systems and DHW heating systems. • The temperature can be variably adjusted; temperature limitation is possible. • The integral temperature controller is equipped with a high limit safety cut-out.

BGC 6 kW 500 mm ET

		BGC 6 kW 500 mm ET	BGC/45	BGC 2/60
Part number		**003769**	**075115**	**232030**
Specification				
Connected load ~ 230 V	kW	2-5,7	2-5,7	2-5,7
Connected load ~ 400 V	kW	6	6	6
Power supply		1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE
Rated voltage	V	230/400	230/400	230/400
Frequency	Hz	50/60	50/60	50/60
Version		Universal flange	Universal flange	Universal flange
IP rating		IP44	IP44	IP44
Immersion depth	mm	500	455	480

FCR



Benefits
- Replaceable copper heating element
- For matching to individual usage scenarios
- High hot water convenience thanks to powerful heating elements
- Variable temperature setting via rotary selector

Description • The flanged immersion heaters are suitable for horizontal installation in unvented DHW cylinders with flange connectors to DIN 4805. • The temperature can be variably adjusted. It is possible to limit the temperature. • Please note the details supplied by the cylinder manufacturer, as well as DIN 4753 and DIN 4751.

FCR 21/60

		FCR 21/60	FCR 21/120 E	FCR 28/120	FCR 28/120 E
Part number		**071330**	**071331**	**071332**	**000694**
Specification					
Connected load ~ 230 V	kW	2-4	4		
Connected load ~ 400 V	kW	2-6	8/12	6/12	12
Power supply		1/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/PE	3/PE	3/PE
Rated voltage	V	230/400	230/400	400	400
Coil voltage	V	230	230	230	400
Frequency	Hz	50/60	50/60	50	50

next page >

		FCR 21/60	FCR 21/120 E	FCR 28/120	FCR 28/120 E
Version		Dual/single circuit	Single circuit	Dual/single circuit	Single circuit
Integral contactor		X	-	X	X
IP rating		IP24	IP24	IP24	IP24
Immersion depth	mm	400	400	450	325
Flange diameter	mm	210	210	280	280

		FCR 28/120 CrNi	FCR 28/180	FCR 28/180 E
Part number		**234503**	**071333**	**000695**
Specification				
Connected load ~ 400 V	kW	6/12	9/18	18
Power supply		3/PE	3/PE	3/PE
Rated voltage	V	400	400	400
Coil voltage	V	230	230	400
Frequency	Hz	50	50	50
Version		Dual/single circuit	Dual/single circuit	Single circuit
Integral contactor		X	X	X
IP rating		IP24	IP24	IP24
Immersion depth	mm	450	450	325
Flange diameter	mm	280	280	280

(Product: 000694)

Temperature controller with frost protection setting (external), temperature limit possible, integral pushbutton for rapid heat-up, high limit safety cut-out, flange gasket, protective cover with two cable entries.

Temperature controller with frost protection setting, high limit safety cut-out, flange gasket, protective cover with two cable entries. (Product: 000694, 000695)

(Product: 000694)

WPRB

Benefits
- Pipe assembly for WPL and WPF-M heating heat pumps
- 1 1/4 inch connection
- Length: 600 mm (Product: 074233)

Description • Pipe assembly for electric threaded immersion heater for electrical reheating.

WPRB

		WPRB
Part number		**074233**
Specification		
Length	mm	600

DHW heating
Accessories 352
Heating system hydraulics
Accessories 354
Additional accessories
Accessories 363

UPZ

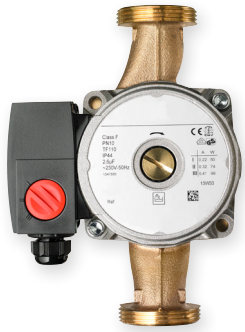
Benefits
- Highly efficient DHW circulation pump
- Time switch included in standard delivery
- Adjustable shutdown temperature
- Low heat losses thanks to high grade insulation shell

Application • DHW circulation pump with automatic ventilation mode, suitable for detached houses and apartment buildings. • The highly efficient DHW circulation pump can be controlled via the electronic control thermostat and/or the time switch. • The pump shutdown temperature can be adjusted by means of a rotary selector – this allows the pump runtime and the electronic energy demand for DHW provision to be reduced to a minimum. • Insulation shell, time switch and non-return valve are included in the standard delivery.

UPZ

		UPZ
Part number		**233719**
Specification		
Connection		G 1/2
Power consumption	W	2 - 27
Rated voltage	V	220-240
Control via 0-10 V signal with IF module		-
Control via PWM signal		-
Installation length (centre distance)	mm	65

UP B



Benefits
- Circulation pump, DHW circuit
- 3-stage electronic control
- Inserts included in the delivery

Description • The circulation pump for the DHW circuit can be controlled electrically in three stages. • Inserts are included in the standard delivery.

UP 25-60-180

		UP 25-60-180
Part number		**056899**
Specification		
Connection		G 2
Power consumption	W	46/67/93
Rated voltage	V	230
Installation length (centre distance)	mm	180

WT

Benefits
- The plate heat exchanger consists of multiple hard-soldered stainless steel plates
- For DHW heating or swimming pool water heating

Description • The plate heat exchanger comprising several hard-soldered stainless steel plates is suitable for DHW heating or swimming pool heating. • The heat exchanger is supplied with thermal insulation. • Observe application limits.

WT 30

		WT 30	WT 40
Part number		**071091**	**229338**
Specification			
Output	kW	40	50
Primary pressure drop	hPa	90	120
Secondary pressure drop	hPa	60	200
Height	mm	313	313
Width	mm	113	113
Depth	mm	173.5	219.7
Weight	kg	8.0	10.2

UP

Benefits
- Electronically controlled circulation pump with variable differential control
- Energy efficiency index (EEI): 0.20
- Can be controlled via either a PWM signal or differential pressure (Product: 201620)
- Delivery head max. 10 m (Product: 201620, 205285, 205286, 205288, 206633)
- 0-10 V actuation possible with IF module (Product: 206633, 206636)
- Delivery head max. 12 m (Product: 206636)

Description • The heating circuit pump is particularly energy efficient, as electronic output control is integrated for pumping the heat transfer medium, as is variable differential control.

UP 25/7.5 PCV

		UP 25/7.5 PCV	UP 25/1-8 PCV	UP 30/1-8 PCV	UP 30/1-10 PCV	UP 40/1-8 E	UP 50/1-12 E
Part number		**201620**	**205285**	**205286**	**205288**	**206633**	**206636**
Specification							
Energy Efficiency Index EEI		0.20	0.20	0.20	0.20	0.23	0.23
Connection		G 1 1/2	G 1 1/2	G 2	G 2	DN 40	DN 50
Delivery head	m	8.40	8.00	8.00	10.00	8.00	12.00
Max. flow rate	m³/h	4.00	9.50	9.00	10.00	15.00	29.00
Power consumption	W	10-60	200	130	200	12-310	25-590
Rated voltage	V	230	230	230	230	230	230
Control via 0-10 V signal with IF module		-	x	x	x	x	x
Control via differential pressure		x	x	x	x	x	x
Control via PWM signal		x	x	x	x	-	-
Installation length (centre distance)	mm	180	180	180	180	220	280

Standard delivery: Insulation shell (Product: 201620)

WPKI-HK

Benefits
- Pump assembly for heating circuit without mixer
- For combination with buffer cylinders

Description • The pump assembly is suitable for one heating circuit without mixer. The standard delivery includes the integral high efficiency heating circuit pump, shut-off valves with thermometer and gravity brake, including opening mechanism and the EPP complete insulation set with wall mounting bracket. • The pump assembly can be installed either directly on the buffer cylinder or on the wall.

WPKI-HK DN 25

		WPKI-HK DN 25
Part number		**206627**
Specification		
Connection, above		G 1
Connection, below		G 1 1/2 A
Circulation pump type		Wilo Para SC 25/6-43

next page >

		WPKI-HK DN 25
Height	mm	383
Width	mm	250
Depth	mm	213
Energy Efficiency Index EEI		0.20
Delivery head	m	6.70
Max. flow rate	m³/h	7.80

WPKI-HKM E

WPKI-HKM E 24

Benefits
- Pump assembly for heating circuit with mixer
- Complete with built-in high efficiency pump and 24 V mixer motor
- Including thermal insulation and wall mounting bracket

Description • Pump assembly for one heating circuit with mixer. • Included in the standard delivery are the integral high efficiency pump, a 24 V mixer motor, shut-off valves and thermometers for the flow and return. Also included in the standard delivery are a gravity brake and the EPP complete insulation set with wall mounting bracket. • The pump assembly can be installed either on the buffer cylinder or on the wall.

		WPKI-HKM E 24
Part number		**206300**
Specification		
Connection, above		G 1
Connection, below		G 1 1/2 A
Circulation pump type		Wilo Para SC 25/6-43
Height	mm	383
Width	mm	250
Depth	mm	245
Energy Efficiency Index EEI		0.20
Delivery head	m	6.70
Max. flow rate	m³/h	6.00

WPKI-HKM 24

WPKI-HKM 24 DN 32

Benefits
- Including thermal insulation and wall mounting bracket
- Complete with built-in high efficiency pump and 24 V mixer motor
- Pump assembly for heating circuit with mixer

Description • Pump assembly for one heating circuit with mixer. • Included in the standard delivery are the integral high efficiency pump, a 24 V mixer motor, shut-off valves and thermometers for the flow and return. Also included in the standard delivery are a gravity brake and the EPP complete insulation set with wall mounting bracket. • The pump assembly can be installed either on the buffer cylinder or on the wall.

		WPKI-HKM 24 DN 32	WPKI-HKM 24 DN 40
Part number		**206628**	**206632**
Specification			
Connection, above		G 1 1/4 I	1 1/2 I
Connection, below		G 2 A	DN 40 PN6
Circulation pump type		Grundfos UPML 32-105 AUTO	Wilo Yonos MAXO plus 40/0.5-12
Height	mm	441	811
Width	mm	250	320
Depth	mm	293	554
Energy Efficiency Index EEI		0.20	0.20
Delivery head	m	10.00	12.00
Max. flow rate	m³/h	11.40	17.70

WPKI-HKM 230

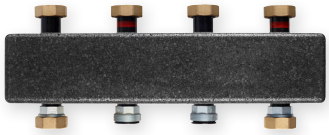
WPKI-HKM 230 DN 25

Benefits
- Heating circuit assembly with mixing valve
- Complete with high efficiency pump, shut-off valves and gravity valves
- Including thermal insulation and wall mounting bracket
- Complete with built-in high efficiency pump and 230 V mixer motor
- Pump assembly for heating circuit with mixer

Description • Pump assembly for one heating circuit with mixer. • Included in the standard delivery are the integral high efficiency pump, a 230 V mixer motor, shut-off valves and thermometers for the flow and return. Also included in the standard delivery are a gravity brake and the EPP complete insulation set with wall mounting bracket. • The pump assembly can be installed either on the buffer cylinder or on the wall.

		WPKI-HKM 230 DN 25
Part number		**206631**
Specification		
Connection, above		G 1
Connection, below		G 1 1/2 A
Circulation pump type		Wilo Para SC 25/6-43
Height	mm	383
Width	mm	250
Depth	mm	245
Energy Efficiency Index EEI		0.20
Delivery head	m	6.00
Max. flow rate	m³/h	5.70

WPKI-HKV 2



Benefits
- Straightforward installation of two pump assemblies next to each other
- Makes it easier to ensure a tidy, visually appealing installation
- EPP thermal insulation included in the delivery

Description • The manifold is suitable for the fast and visually high quality installation of up to two heating circuit pump assemblies. • The standard delivery includes the high grade EPP insulation and all required fittings for wall mounting the manifold.

WPKI-HKV 2

		WPKI-HKV 2
Part number		**206638**
Specification		
Connection		DN 25

WPKI-HKV 3

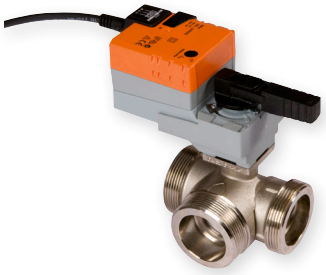
Benefits
- Straightforward installation of up to three pump assemblies next to each other
- Makes it easier to ensure a tidy, visually appealing installation
- EPP thermal insulation included in the delivery

Description • The manifold is suitable for the fast and visibly high quality installation of up to three heating circuit pump assemblies. • The standard delivery includes the high grade EPP insulation and all required fittings for wall mounting the manifold.

WPKI-HKV 3

		WPKI-HKV 3
Part number		**206637**
Specification		
Connection		DN 25

HUV



Benefits
- The ready-to-use actuator is supplied installed on the 3-way diverter valve
- Can be installed vertical to horizontal
- Maintenance-free

Description • The 3-way heating diverter valve with servomotor is suitable for installation in heating systems.

HUV 1

		HUV 1	HUV 2	HUV 65	HUV 80
Part number		**227420**	**223391**	**227425**	**227426**
Specification					
Connection		G1	G 2	DN 65	DN 80
kVS value	m³/h	26	49	58	90
IP rating		IP54	IP54	IP54	IP54
Protection class				II reinforced insulation	
Runtime		90 s / 90°	90 s / 90°	7.5 s/mm (18 mm)	7.5 s/mm (18 mm)
Weight	kg	1.65	4.80	16.30	22.50

WPHW

Benefits
- Hydraulic separation of heating circuit and heat pump
- Quick installation
- Energy saving thermal insulation

Description • The low loss header provides hydraulic separation between the heat pump and the heating circuit. Standard delivery includes an air separator and a dirt trap. • The welded casing with connectors is fully insulated and equipped with automatic float air vent valves, sensor pockets for return sensors and drain valve.

WPHW 25

		WPHW 25
Part number		**221135**
Specification		
Connection, heating system		G 1 1/2
Connection, heat pump		G 1 1/2
Flow rate	m³/h	2

HZEA

Benefits
- Water softening device
- Ion resin cartridge incl. flat gasket included in the standard delivery
- Suitable for flow temperatures of up to max. 100 degrees Celsius
- The volume of softened water is subject to the level of hardness in the water (Product: 230013)

Description • The heating water softening device is used to fill or top up heating systems. • The fitting is installed in the cold water pipe, directly downstream of the system separator. • The water passes through an acidic and high efficiency ion exchange resin. • Depending on the system volume, the appropriate number of refill cartridges must be kept in stock for the initial filling.

HZEA

		HZEA
Part number		**230013**
Specification		
Max. flow rate	m³/h	0.30

HZEN

Benefits
- Refill cartridge for water softening device
- The volume of softened water is subject to the level of hardness in the water (Product: 230031)

Description • Replacement cartridge for the HZEA heating water softening device.

HZEN

		HZEN
Part number		**230031**
Specification		
Max. permissible pressure	MPa	0.80
Weight	kg	1.20
Capacity	l x °dH	6000
Required accessories		
Part number		**230013**
Type		HZEA
Description		Heating water softening device

SD..G/GE

Benefits
› Pressure hose for flow or return line

Description • The vapour diffusion-proof pressure hoses with straight end pieces, for flow and return lines, are supplied including thermal insulation and threaded fittings.

SD 25-1 G

		SD 25-1 G	SD 25-2 GE	SD 25-2.5 GE	SD 32-0.6 G
Part number		**232976**	**233828**	**232971**	**201710**
Specification					
Connection, heating and source side		G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4
For pressure hose size DN		25	25	25	32
Length	m	1	2	2.5	
Max. operating pressure	bar	3.00	3.00	3.00	
Thermal insulation thickness	mm	19	30	30	
External diameter incl. insulation	mm	80	99	99	

		SD 32-1 G	SD 32-2 GE	SD 40-0.8 G
Part number		**232977**	**233831**	**201711**
Specification				
Connection, heating and source side		G 1 1/4	G 1 1/4	
For pressure hose size DN		32	32	40
Length	m	1	2	
Max. operating pressure	bar	3.00	3.00	
Thermal insulation thickness	mm	19	30	
External diameter incl. insulation	mm	86	106	

Without thermal insulation (Product: 201710, 201711)

SD..E

Description • The vapour diffusion-proof pressure hoses with one right angle and one straight end piece for flow and return lines are supplied including thermal insulation and threaded fittings.

SD DN25-1 E

		SD DN25-1 E	SD 25-1 E	SD 32-1 E	SD DN32-1 E	SD 50-1 E
Part number		**074415**	**232965**	**232968**	**074414**	**232972**
Specification						
Connection, heating and source side		G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	G 2
For pressure hose size DN		25	25	32	32	50
Length	m	1	1	1	1	1
Max. operating pressure	bar	2.50	2.50	2.50	2.50	2.50
Thermal insulation thickness	mm	19	30	30	19	50
External diameter incl. insulation	mm	80	99	106	86	134

SD..KE

Description • The vapour diffusion-proof pressure hoses (which can be trimmed), for flow and return lines, are supplied inclusive of thermal insulation and threaded fittings.

SD 25-1 KE

		SD 25-1 KE	SD 32-1 KE
Part number		**232974**	**232975**
Specification			
Connection, heating and source side		G 1 1/4	G 1 1/4
For pressure hose size DN		25	32
Length	m	1	1
Max. operating pressure	bar	2.50	2.50
Thermal insulation thickness	mm	30	30
External diameter incl. insulation	mm	99	106

SV DS

Benefits
› Available for DN 25 and DN 32
› Two-piece set

Description • Hose fitting for trimming pressure hoses with threaded fittings.

SV DS 25

		SV DS 25	SV DS 32
Part number		003713	070692

FS-HP

Benefits
› Liquid and gaseous media in the pipework are monitored by the FS-HP flow switch

Description • The FS-HP flow switch can be used to reliably monitor liquid and gaseous media in pipelines. • A connection adaptor to G 1/4“ and a five metre PUR cable with a 1/2“ plug-in connection are included in the standard delivery.

FSHP-L45

		FSHP-L45
Part number		202779

STB-FB

STB-FB

Benefits
- High limit safety cut-out for underfloor heating
- Setting of the maximum flow temperature
- Installation on the heating pipe

Description • The contact thermostat made of bimetal limits the maximum permissible flow temperature. A casing is included in the standard delivery.

		STB-FB
Part number		**233711**
Specification		
Temperature setting range	°C	20-90
Switching hysteresis	K	8±3
IP rating		IP30

Ventilation with integral heat pump 367

Accessories for ventilation with integral heat pump 375

Application areas

Heating

Cooling

Air flow rate

| | | |

Room heating, DHW heating and supply/extract air with heat recovery
LWZ CS Premium 368

LWZ CS Premium

LWZ 8 CS Premium

Benefits

- Compact appliance for ventilation, heating, cooling and DHW heating
- Intuitive operation via matrix display with Touch-Wheel
- Energy saving heat distribution by integral high efficiency pump
- Integral DHW cylinder for maximum hot water convenience
- Simple to control via the ergonomic programming unit

Application • This output-controlled integral system with reversible air source heat pump performs the following tasks in new build and family houses: central ventilation, central DHW heating, heating and cooling.

Convenience features • The integral electronic weather-compensated control unit ensures output control for all application areas. The intelligent controller allows program preselection for fans, heating, DHW and absence or holidays. • A range of additional functions is also available: humidity protection ventilation with integral humidity sensor in the extract air, air flow rate reduction when humidity is too low, passive cooling and screed drying program. • The programming unit is integrated directly in the appliance, with the option of adding a remote control with humidity sensor. • Extensions in the form of the Internet Service Gateway with optional KNX and photovoltaic optimisation are available as add-ons. • Extensive safety equipment in the refrigerant circuit of the air source heat pump. • Cooling with option of direct area cooling. • An electric emergency/auxiliary heater for DHW heating and room heating is built in. • The specially enamelled DHW cylinder has a protective anode with electronic monitoring. • Outdoor air is preheated by a refrigerant circuit supercooler. • Coarse dust filters are integrated for the supply and extract air.

Efficiency • High efficiency due to demand-dependent control of the inverter compressor. • To be able to use solar thermal energy, an additional solar heat exchanger is integrated into the heating circuit. • The combination of the plastic cross-countercurrent heat exchanger and the economical constant flow rate fan is particularly efficient.

Installation • All air connections are located at the top of the appliance. • The robust sheet steel casing has a contemporary design.

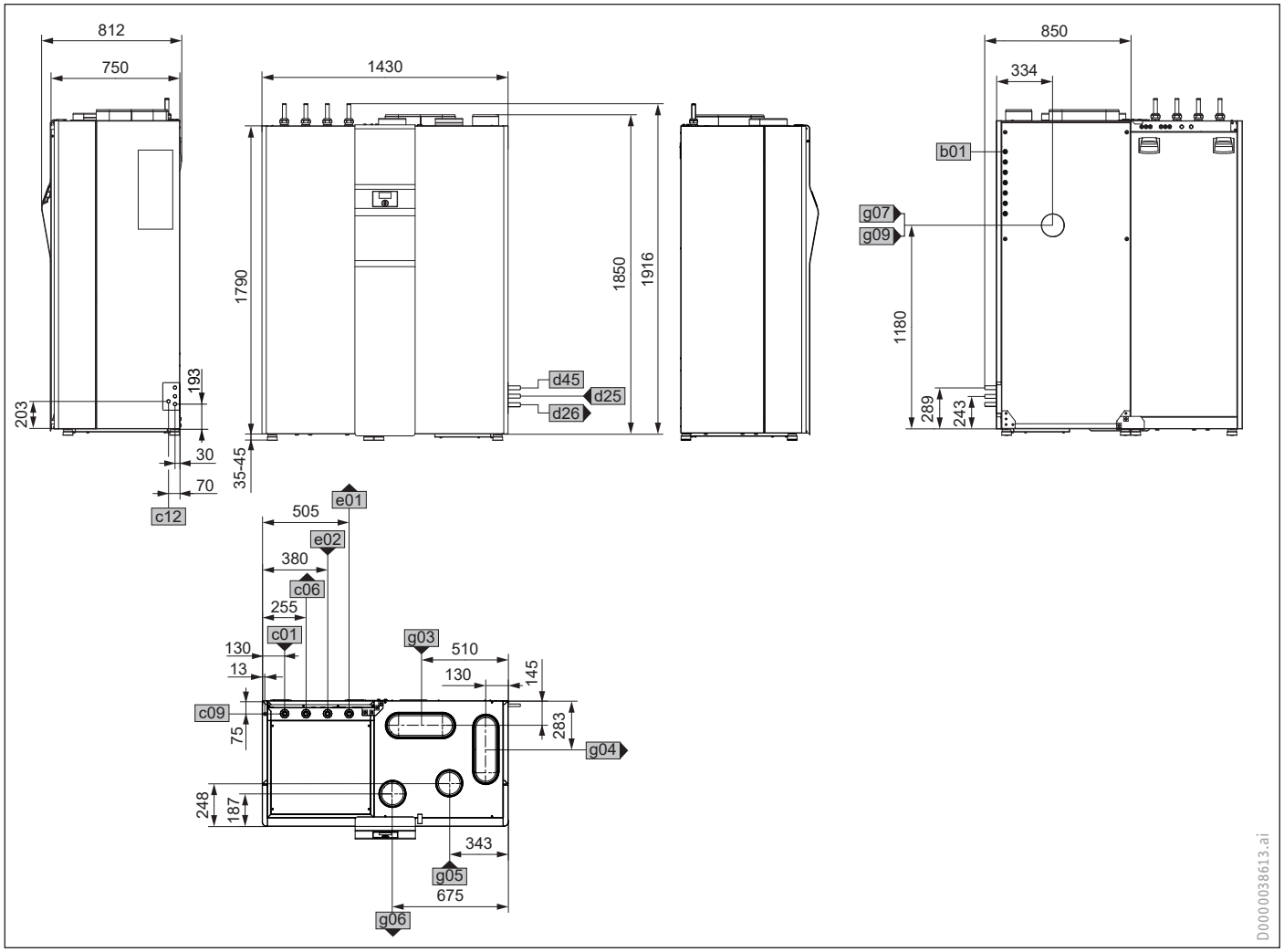
		LWZ 8 CS Premium
Part number		**201290**
Specification		
Heat recovery level up to	%	90
Filter class		ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)
Heating output at A-7/W35 (EN 14511)	kW	8.34
Heating output at A2/W35 (EN 14511)	kW	5.16
Cooling capacity at A35/W7	kW	2.69
Energy efficiency ratio at A35/W7		1.92
COP at A2/W35 (EN 14511)		3.74
COP at A-7/W35 (EN 14511)		2.61
Sound power level (EN 12102)	dB(A)	50
Cylinder volume V	l	235
Weight	kg	442
Rated voltage, emergency/auxiliary heater	V	400
Rated voltage, control unit	V	230
Rated voltage, compressor	V	230
Refrigerant		R410 A
Air flow rate	m³/h	80-300
Energy efficiency class, heat pump W35		A++
Energy efficiency class, heat pump W55		A++

next page >

		LWZ 8 CS Premium
Energy efficiency class, DHW heating with load profile XL		A
Height	mm	1885
Width	mm	1430
Depth	mm	812
Required accessories		
Part number		**205786**
Type		AWG 315 SR.2
Description		Thermally insulated external wall air outlet
Part number		**227664**
Type		FES Komfort
Description		Remote control
Recommended accessories		
Part number		**201720**
Type		LSWP 315-1.5 SG
Description		Sound insulated air hose
Part number		**227664**
Type		FES Komfort
Description		Remote control
Part number		**227665**
Type		LSK Inverter
Description		Summer cassette
Part number		**229336**
Type		ISG web
Description		Internet Service Gateway
Part number		**232675**
Type		LULH 315 o
Description		Air diverter hood, outdoor/exhaust air
Part number		**233301**
Type		ZLWZ Zirku set
Description		Connection set for DHW circulation pump
Part number		**233836**
Type		AWG 315 SR
Description		Thermally insulated external wall air outlet
Part number		**233867**
Type		LWTF Inverter Enthalpie LWZ 5+8
Description		Enthalpy heat exchanger
Service		
Part number		**240592**
Type		Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment
Maintenance		
Part number		**231330**
Type		FMS G4-10 ABL Inverter
Description		Filter mat set
Part number		**231331**
Type		FMK M5-2 ZUL Inverter
Description		Filter cassette set
Part number		**231332**
Type		FMK F7-2 ZUL Inverter
Description		Filter cassette set

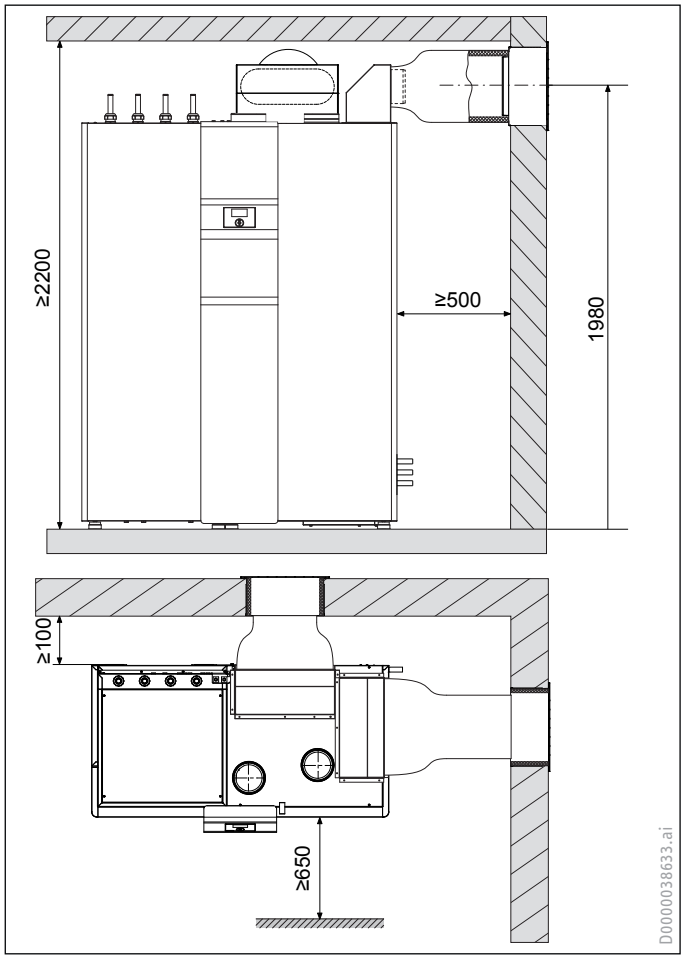
Consisting of function module and cylinder module.

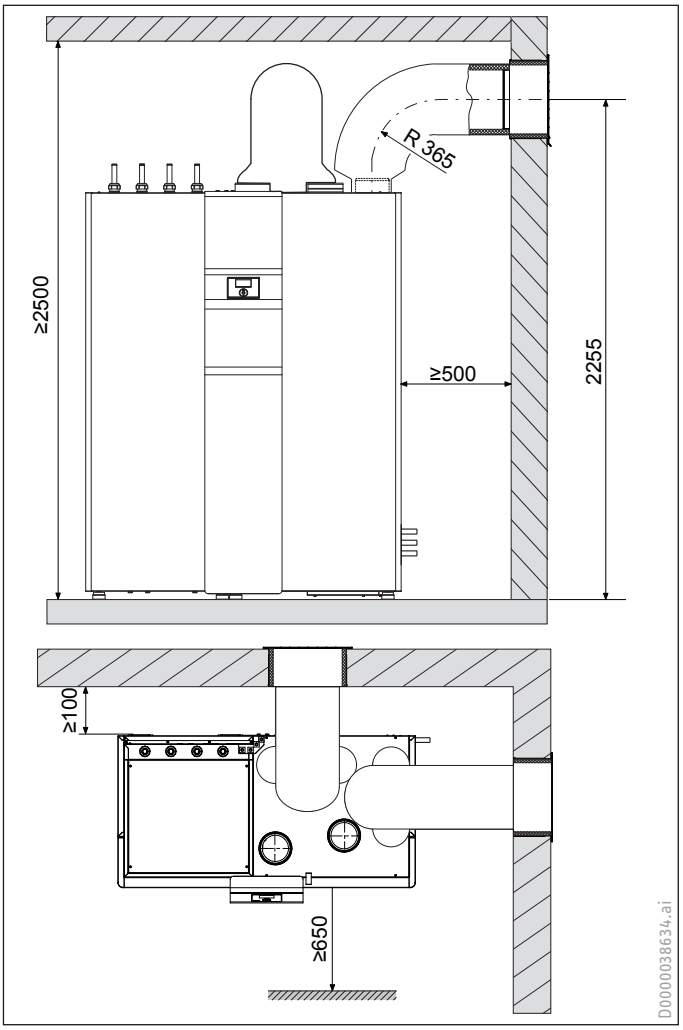
Room heating, DHW heating and supply/extract air with heat recovery

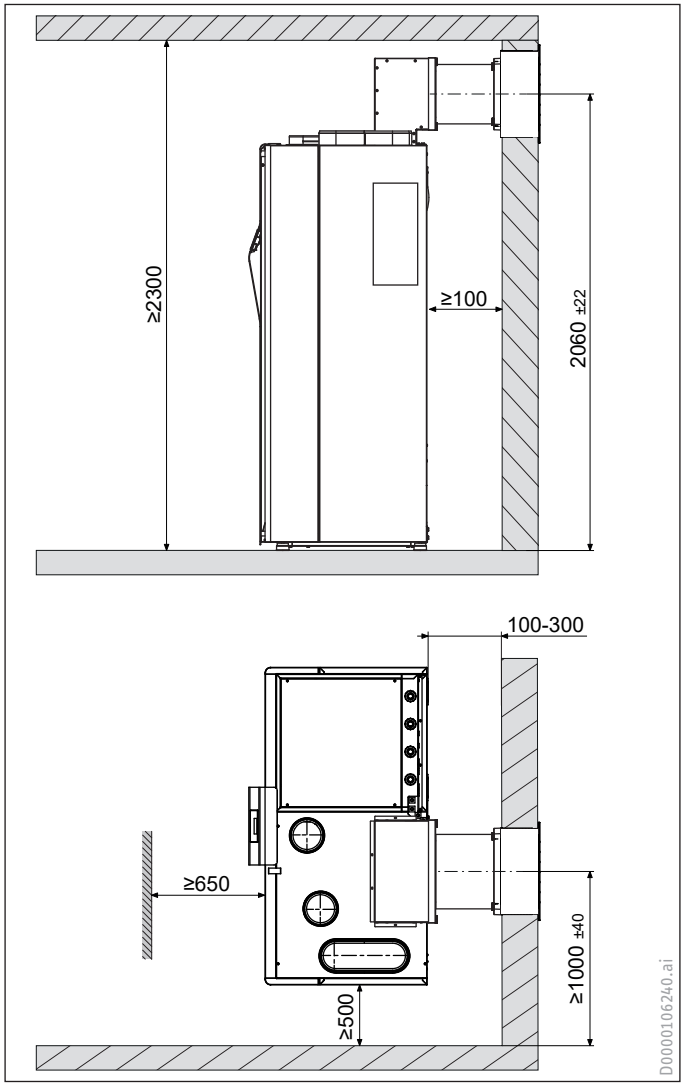


		LWZ 8 CS Premium
b01 Entry electrical cables		•
c01 Cold water inlet - diameter	mm	22
c06 DHW outlet - diameter	mm	22
c09 Entry DHW circulation		•
c12 Safety valve drain - diameter	mm	19
d25 Solar flow - diameter	mm	22
d26 Solar return - diameter	mm	22
d45 Condensate drain - diameter	mm	22
d46 Ventilation		•
e01 Heating flow - diameter	mm	22
e02 Heating return - diameter	mm	22
g03 Outdoor air - nominal diameter		DN 315
g04 Exhaust air - nominal diameter		DN 315
g05 Extract air - nominal diameter		DN 160
g06 Supply air - nominal diameter		DN 160
g07 Outdoor air geothermal heat exchanger - nominal diameter		DN 160
g09 Outdoor air mechanical ventilation opt. - nominal diameter		DN 160

Installation conditions



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2060 ±22
100-300
≥650
≥1000 ±40
≥500
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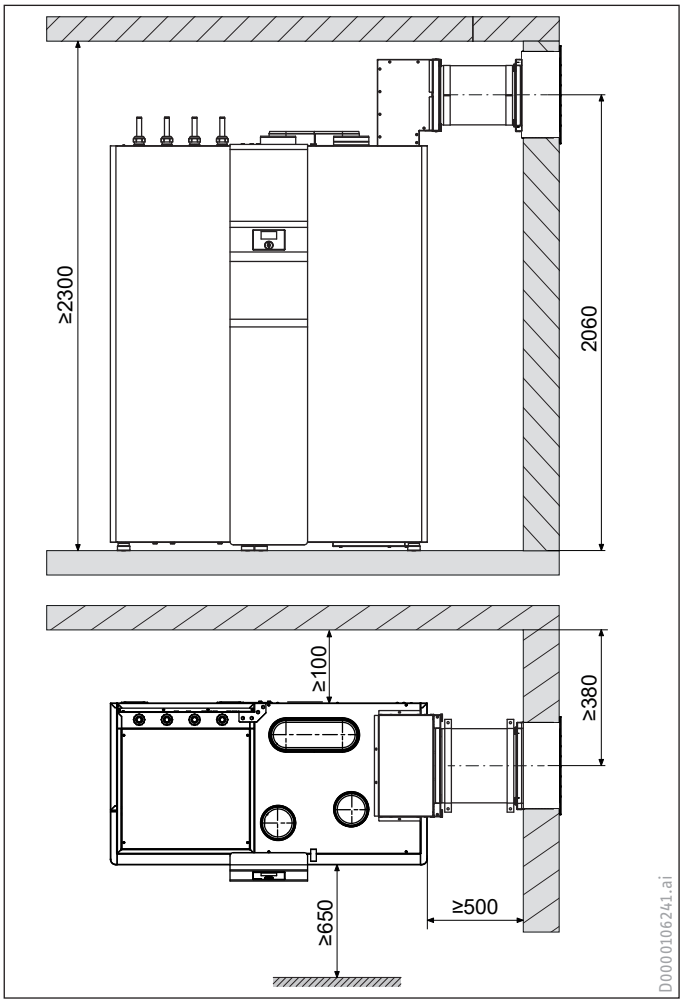
≥2300
2060
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≥380
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Accessories
Accessories 376
Controllers
Accessories 383
Filter
Accessories 385

AWG 315.2

AWG 315 SR.2

Benefits

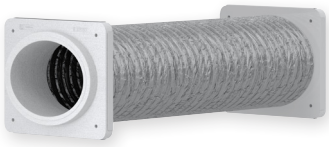
- Stable wall outlet, also suitable for large wall thicknesses
- Telescopic for optimal adjustment
- Wall outlet is made of high density EPS
- Any moisture that accumulates is drained away by integrated moulded slopes
- The weather grille made of silver lacquered aluminium affords a high level of corrosion protection (Product: 205786)
- Quiet operation and high convenience due to the low-noise and low pressure drop design of the weather grille (Product: 205786)
- The integrated grille prevents rodent access (Product: 205786)
- Run marks on the face panel are prevented by a wide drip edge with lateral drainage protection (Product: 205786)

Description • This robust, telescopic wall outlet is suitable for ensuring the outdoor and exhaust air routing of the heat pump air flow through a wall. • The flow-optimised wall outlet ensures no thermal bridges and is made of grey EPS moulded with high density. • Integral threaded elements made of steel are used for fastening. • Any moisture that accumulates is discharged to the front via the weather grille. • The connection to the air hoses is made via an oval quick-fit connector with flexible sealing tape.

Installation • The basic element is installed in the wall together with the mounting element. After completion of the wall, the mounting element is replaced by the frame element, which is then sealed in. • The final step is the external cover made of painted aluminium, which is installed as a light well or as a façade version with weather protection, depending on the model.

		AWG 315 SR.2
Part number		**205786**
Specification		
Height	mm	440
Width	mm	440
Depth	mm	340
Wall thickness	mm	325 - 500
Min. outlet aperture	mm	450x450
Max. air flow rate	m³/h	1300
Colour		silver-metallic
Required accessories		
Part number		**238565**
Type		LSWP 315-2 SG Set
Description		Thermally insulated air hose with 2 EPS quick-fit adaptors

LSWP 315 SG Set



Benefits
- Flexible air hose with quick-fit adaptor
- For connection of outdoor and exhaust air with air source heat pumps
- Sound absorbent and thermal insulating covering
- Quick and straightforward installation

Description • This flexible air hose for outdoor and exhaust air ducting is heat and sound insulated. • Easy connection to the AWG or WPL thanks to the prefitted quick-fit adaptors. • The hose is covered with a sound absorbing, thermal insulation layer. The outside is made of aluminium laminate and the inside of polypropylene cloth. The intermediate layer, made of mineral wool, provides sound and thermal insulation. • A quick-fit adaptor made of EPS is ready mounted and sealed at both ends.

LSWP 315-2 SG Set

		LSWP 315-2 SG Set
Part number		**238565**
Specification		
Nominal diameter	mm	315
Length	mm	2000
Thermal insulation thickness	mm	50
Colour of air hose		grey

AWG 315

Benefits
- Robust sheet steel design
- Weather grille painted grey
- Telescopic for optimal adjustment

Description • The thermally insulated wall outlet is suitable for routing the air ducts of indoor air source heat pumps and integral systems. • The length can be adjusted to suit the wall thickness thanks to telescopic technology.

AWG 315 SR

		AWG 315 SR	AWG 315 GL	AWG 315 L
Part number		**233836**	**232955**	**231039**
Specification				
Height	mm	490	490	477
Width	mm	483	483	479
Depth	mm	627	627	625
Nominal diameter	mm	315	315	315
Wall thickness	mm	280 - 500	280 - 500	280 - 500
Min. outlet aperture	mm	450x450	450x450	450x450
Max. air flow rate	m³/h	1300	1300	1500
Colour		silver-metallic	RAL 9006	Aluminium, anodised
Material		Sheet steel	Sheet steel	Sheet steel
Version		With weather grille painted with metallic silver	With grey painted weather grille	For light well version

LSWP 315

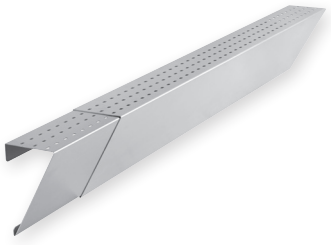
Benefits
› Good sound insulation thanks to a 50 mm layer of acoustic insulating material
› Prevents condensation forming on the outer cover

Description • The thermally and sound insulated flexible air hose is suitable for routing the outdoor and exhaust air to/from an air source heat pump installed indoors. • The outside is made of aluminium laminate and the inside of polypropylene cloth. The intermediate layer, made of mineral wool, provides sound and thermal insulation. The hose ends can be shaped into ovals for easier fitting.

LSWP 315-1.5 SG

		LSWP 315-1.5 SG	LSWP 315-4 SG	LSWP 315-4 S
Part number		**201720**	**201618**	**234646**
Specification				
Nominal diameter	mm	315	315	315
Length	mm	1500	4000	4000
Thermal insulation thickness	mm	50	50	50
Colour of air hose		Grey outer sheath	Grey outer sheath	Aluminium-coloured outer sheath

LLB AWG



Benefits
› Quick and easy to install

Description • The aluminium air deflector is installed in a light well to deflect the exhaust air from the building away from the external wall. This reduces the formation of moisture from condensation. • The width of the air deflector can be adjusted to the light well.

LLB AWG 315 L

		LLB AWG 315 L	LLB AWG 560 L
Part number		**232341**	**232342**
Specification			
Height	mm	128	128
Length	mm	900	1,500
Colour		Aluminium	Aluminium

LWF SK

Benefits
› Excellent sound attenuation at low frequencies

Description • The splitter silencer consists of an external pipe, a perforated internal pipe, a baffle and two connection ends with double lip gasket. It reduces the sound levels of integral systems and air source heat pumps at the external wall grille. • The space is filled with sound-absorbing insulation material. A fibreglass fleece between the internal pipe and insulation prevents any contact between the insulating material and the air stream.

LWF SK 315 - 0,6

		LWF SK 315 - 0,6
Part number		**202933**
Specification		
Nominal diameter	mm	315
External diameter	mm	515

Splitter silencer, comprising an external pipe, a perforated internal pipe, a baffle and two connection ends with double lip seals. Suitable for use in the exhaust air of the integral systems and air/water heat pump to reduce the sound values at the outer grille. The intermediate space is filled with noise-absorbing material. A glass fibre fleece between the internal pipe and insulation prevents any contact between the insulating material and the air stream. (Product: 202933)
Silencer with baffle (Product: 202933)

LULH

Benefits
› Compact, space saving design

Description • The air diverter hood for integral systems is suitable for routing the outdoor air, or the outdoor and exhaust air. • It is used with low ceilings from 2200 mm and is suitable for air hose LSWP 315. • The sheet steel casing has a stove enamel finish and is insulated on the inside.

LULH 315 o

		LULH 315 o
Part number		**232675**
Specification		
Height	mm	260
Width	mm	488
Depth	mm	218
Duct width, intake side	mm	410.00
Duct width, intake side	mm	155.00
Weight	kg	2,4

LWTF inverter

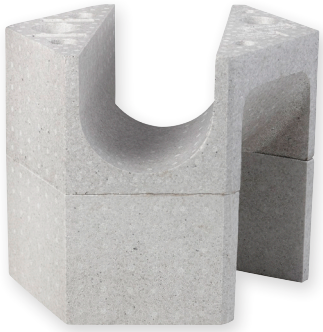
LWTF Inverter Enthalpie LWZ 5+8

Benefits
- Less dry air in winter thanks to moisture recovery
- Thanks to the special membranes, odours and harmful substances are not allowed through

Description • The enthalpy heat exchanger for integral units replaces the cross-countercurrent heat exchanger in the winter months. • The highly efficient enthalpy heat exchanger is equipped with a selective plastic film membrane. This heat exchanger membrane helps to recover moisture from the extract air and transfer it to the supply air. This increases the low relative humidity in the rooms during the winter months. • No transfer of gases or impurities, long service life, excellent leak tightness, low pressure drop, antimicrobial, resistant to frost and heat.

		LWTF Inverter Enthalpie LWZ 5+8
Part number		**233867**
Specification		
Height	mm	366
Width	mm	366
Depth	mm	345

LSK inverter



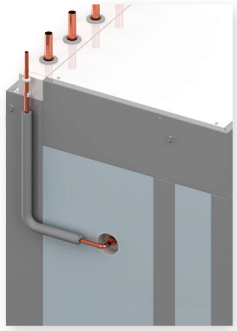
LSK Inverter

Benefits
- Temperature reduction in summer through the supply of fresh and cool outdoor air

Description • The insert module replaces the cross-countercurrent heat exchanger in summer, in order to prevent unwanted heat transfer.

		LSK Inverter
Part number		**227665**
Specification		
Application		Ventilation units

ZLWZ DHW circulation set



ZLWZ Zirku set

Benefits
- Pipe assembly for integral systems
- For connecting a DHW circulation pump
- Cable entry and retaining clamp incl. in delivery

Description • The connection set for a DHW circulation pump to integral systems consists of a pipe bend assembly with gasket and insulating hose. • The assembly is installed within the side panel; the connection is at the top of the unit, to the back left.

		ZLWZ Zirku set
Part number		**233301**
Specification		
Height	mm	535
Width	mm	260
Depth	mm	52
Weight	kg	0.3

ZLWZ Trans

ZLWZ Trans

Benefits
- Highly robust transport aids that can be used multiple times for all appliances in the range

Description • The transport aid for the function modules of compact ventilation units consists of two sturdy angled panels with suitable fixing screws. • The transport aid can be used for the Plus, Trend, ECO and Flex series.

		ZLWZ Trans
Part number		**233485**

ALD

Benefits
- White design cover
- Filter class G3
- Installation diameter: at least 160 mm

Description • The supply air vents for decentralised air supply are designed for wall integration and can be closed manually. They are made of plastic and are supplied inclusive of weather grille, wind pressure protection and filter.

ALD 160

		ALD 160
Part number		**189813**
Specification		
For nominal diameter	mm	160
Required accessories		
Part number		**189816**
Type		ZALD
Description		Installation pipe

Required ALD accessories: Installation pipe DN 160 (part no. 189816) (Product: 189813)

ZALD

Benefits
- Robust plastic pipe made of polyphenylene sulphide
- Diameter: DN 160
- Length: 100 cm

Description • The plastic (PPS) pipe is used for installing the external wall vent. It can be trimmed to the thickness of the wall and can also be used with walls of greater thickness.

ZALD

		ZALD
Part number		**189816**
Specification		
Diameter	mm	160
Material		Plastic

FES Komfort

Benefits
- Touch-Wheel operation
- Illuminated graphic display
- Room temperature and humidity measurement
- Data link via the system bus
- Choice of operating mode

Description • This FES Komfort programming unit is combined with integral ventilation units. It not only enables convenient operation, but also displays the system parameters for the living space. • The integral room sensor enables automatic heating curve adjustment. The unit is installed on a surface box, with wired communication via the Stiebel Eltron bus.

FES Komfort

		FES Komfort
Part number		**227664**
Specification		
Width	mm	145
Height	mm	96
Depth	mm	31

FET

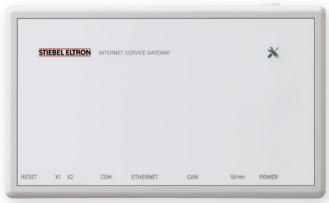
Benefits
- Data link via the system bus
- Room remote control with thermostatic function for the WPM heat pump manager
- Can be used for each of the 5 heating circuits in the WPM system
- Illuminated graphic display
- Display of time, room temperature and room humidity, along with outside temperature
- Touch-Wheel operation
- Room temperature and humidity measurement
- Simple adjustment of comfort temperature
- Energy savings with selectable eco function
- Activating a DHW charging process

Description • The FET digital remote control can be used to conveniently control a heating zone. • The remote control measures the relative humidity and room temperature.

FET

		FET
Part number		**234723**
Specification		
Width	mm	145
Height	mm	96
Depth	mm	31

ISG web



Benefits
- Browser-based operation of the heat pump in a home network
- Can be integrated into home automation systems through Modbus TCP/IP software interface fitted as standard
- Forecast-based on-site PV self-consumption facilitated by optional EMI software extension
- Optional automation with KNX IP software extension

Description • The ISG Internet Service Gateway connects the heat pump to the home network and enables the appliance to be operated using a browser. • Once enabled, appliance data is transferred to the Stiebel Eltron Internet Service Portal. • The ISG plus is a required accessory for use of the SG Ready functions of the WPM heat pump manager. The ISG can be integrated into an existing building management system via the Modbus TCP/IP data interface.

ISG web

		ISG web
Part number		**229336**
Specification		
Version		Wall mounting
10/100 Ethernet		RJ45
CAN		RJ45
RS232		RJ12
Width	mm	158
Height	mm	95
Depth	mm	37
Min./max. application range	°C	0 / 60

Observe the compatibility list.

RC 1

Benefits
- Remote control for convenient control

Description • The remote control makes it easier to operate ventilation units with DHW heat pump.

RC1

		RC1
Part number		**170328**
Specification		
Width	mm	80
Height	mm	80
Depth	mm	30

FMK F7-2 ZUL

Benefits
› Set with two high quality supply air filters
› Filter class ePM1 ≥ 50 % (F7) (Product: 231332)

Description • The set contains two filter cassettes made of synthetic fibre fleece for the supply air. • The low pressure drop is achieved by the large, Z-pleated filter surfaces. • The sturdy frames consist of compressed filter fleece.

FMK F7-2 ZUL Inverter

		FMK F7-2 ZUL Inverter
Part number		**231332**
Specification		
Quantity		2
Filter class		ePM1 ≥ 50 % (F7)
Application		Ventilation units

FMK M5-2 ZUL inverter

Benefits
› Replacement supply air filter for integral units
› Filter class M5
› Two filter cassettes in set

Description • The set contains filter cassettes for the supply air made of synthetic fibre fleece. Low pressure drop due to the large Z-pleated filter surface. • The filter surface is integrated into a sturdy frame made of compressed filter fleece.

FMK M5-2 ZUL Inverter

		FMK M5-2 ZUL Inverter
Part number		**231331**
Specification		
Quantity		2
Filter class		ePM10 ≥ 50 % (M5)
Application		Ventilation units

Filter

FMS G LWZ inverter

Benefits

- Fleece filter mat for replacement
- High dust holding capacity
- No added chemical binders
- Filter class ISO Coarse > 60 % (G4) (Product: 231330)

Description • The set contains a filter mat made of synthetic nonwoven fleece. No chemical binders are added. • The outstanding dust-holding capacity with little pressure drop is achieved through the progressively compressed construction and an optimised nonwoven structure.

FMS G4-10 ABL Inverter

		FMS G4-10 ABL Inverter
Part number		**231330**
Specification		
Quantity		10
Filter class		ISO Coarse > 60 % (G4)
Application		Ventilation units

This set includes 10 filter mats (Product: 231330)

Central ventilation units 391

Accessories, central ventilation units 419

Distribution system for integral and central ventilation 431

Application areas

Air flow rate

m³/h	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
LWZ 180																																				
LWZ 280																																				

m³/h	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
LWZ 180 Enthalpie																																				
LWZ 280 Enthalpie																																				

m³/h	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
VRC-W 400																					
VRC-W 400 E																					

m³/h	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
VRC-W 450 Premium																					
VRC-W 600 Premium																					

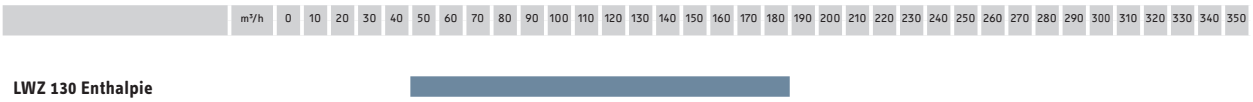
m³/h	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
VRC-W 450 E Premium																					
VRC-W 600 E Premium																					

m³/h	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
LWZ 70 E																																				

m³/h	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LWZ 170 E Plus																					
LWZ 370 plus																					

m³/h	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
LWZ 130																																				

Application areas



Supply and extract air with heat recovery, wall mounting
- **LWZ 180/280** 392
- **LWZ 180 E/280 E** 395
- **VRC-W 400/400 E** 398
- **VRC-W 450/600 Premium** 401
- **VRC-W 450/600 E Premium** 404
- **LWZ 70 E** 408
- **LWZ 170/370 plus** 411

Supply and extract air with heat recovery, ceiling mounting
- **LWZ 130** 414
- **LWZ 130 E** 416

Supply and extract air with heat recovery, wall mounting

LWZ 180/280

LWZ 180

Benefits

- For apartments, family houses and commercial properties with an area of up to 250 m²
- Central supply and extract air system for optimum air quality
- Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- Simple to control via the ergonomic programming unit
- Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
- During the hot summer nights, temperature is reduced by means of the integral bypass module
- Pollutants are continuously removed from the living space
- Easy electrical installation as the connection panel is readily accessible even when the appliance is closed

Application • This central ventilation unit with heat recovery is suitable for ventilating family houses, large apartments and small commercial properties.

Convenience features • The unit is in a contemporary design with ergonomically arranged programming unit and separate filter cover panel. • The integral controller is operated via the multifunction display, which is also used to set the seven-day program. The display can be used as a remote control. • The integral bypass damper in the supply air line prevents heat recovery from the extract air on hot summer nights. • The heating coil with electric preheating provides additional comfort by routing the supply air, which is a higher temperature, into the room. • The humidity sensor can be used for humidity-dependent control of the air flow rate.

Efficiency • The backwards-curved constant flow rate fan with air flow rate control ensures balanced air flow rates, promoting efficient operation. • The cross-countercurrent heat exchanger routes the supply and extract air streams so that they cross each other inside the unit. This extends the contact time for heat exchange, which improves the overall efficiency of the system. • The filter can be replaced easily thanks to the combi filter cassette. A fine dust filter is available as an optional accessory.

Installation • The unit can be installed in apartments, utility rooms and basement rooms. • The air connections are located at the top of the unit. • The electrical connection panel is easy to access without having to open the unit. • The ventilation unit has a duplex sheet steel casing with a powder coated finish on visible surfaces.

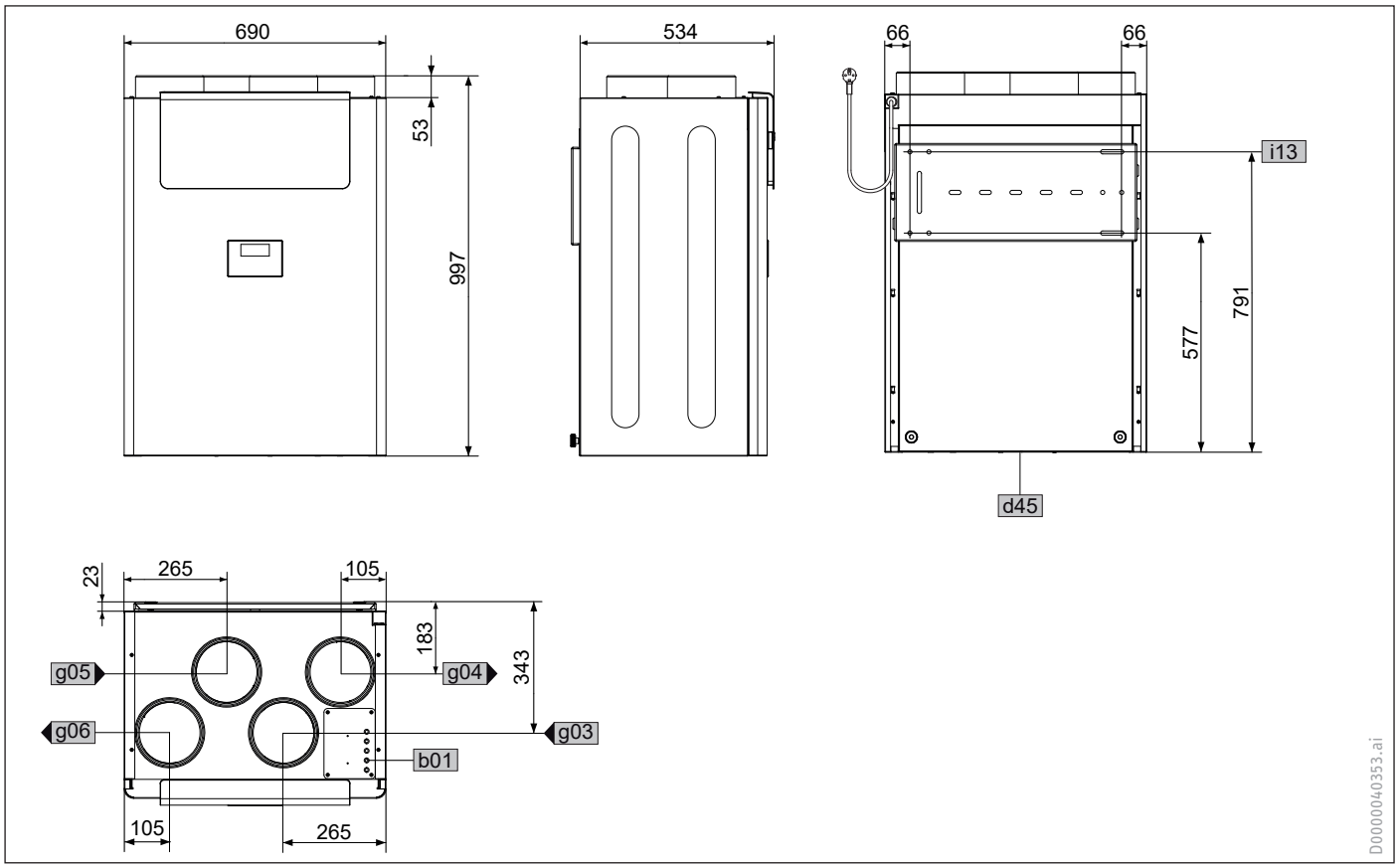
cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

232361

		LWZ 180	LWZ 280
Part number		**232361**	**232362**
Specification			
Heat recovery level up to	%	94	94
Filter class		ePM10 ≥ 50 % (M5) | ISO Coarse ≥ 65 % (G4)	ePM10 ≥ 50 % (M5) | ISO Coarse ≥ 65 % (G4)
Power consumption, fan	W	65	132
Sound power level (EN 12102)	dB(A)	43	48
Height	mm	997	997
Width	mm	690	690
Depth	mm	534	534
Air connection diameter	mm	160	160
Weight	kg	78	78
Rated voltage	V	230	230
Air flow rate	m³/h	60-250	60-350
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-39.95	-38.51
Specific energy consumption in moderate climates, central demand-dependent control	kWh/(m²a)	-41.58	-40.63
Energy efficiency class, moderate climates, time control		A	A
Energy efficiency class, moderate climates, central demand-dependent control		A	A
Energy efficiency class		A+	A+

next page >

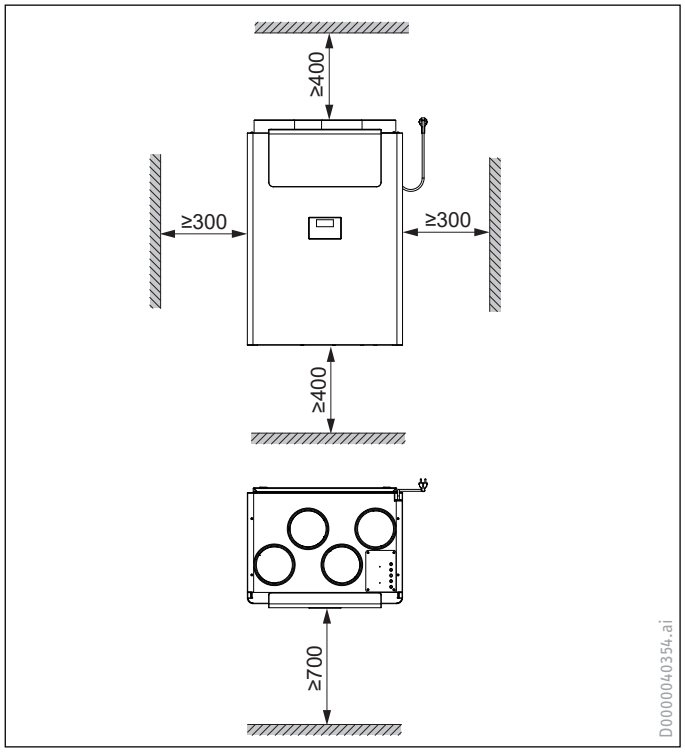
		LWZ 180	LWZ 280
Recommended accessories			
Part number		**205018**	**205018**
Type		FEB 2.0	FEB 2.0
Description		Control unit for central ventilation	Control unit for central ventilation
Part number		**206611**	**206611**
Type		WLAN VRC .1	WLAN VRC .1
Description		[ERROR READING XHTML FRAGMENT]	[ERROR READING XHTML FRAGMENT]
Service			
Part number		**240592**	**240592**
Type		Planning of ventilation technology, 3D	Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment	Engineering service: ventilation equipment
Maintenance			
Part number		**234147**	**234147**
Type		FMS G4-10 180	FMS G4-10 180
Description		Filter mat set	Filter mat set
Part number		**234148**	**234148**
Type		FMK M5-2 180	FMK M5-2 180
Description		Filter cassette set	Filter cassette set
Part number		**234208**	**234208**
Type		FMK F7-2 180	FMK F7-2 180
Description		Filter cassette set F7, 2 pce	Filter cassette set F7, 2 pce



Supply and extract air with heat recovery, wall mounting

		LWZ 180	LWZ 280
b01 Entry electrical cables		•	•
d45 Condensate drain - diameter	mm	22	22
g03 Outdoor air - diameter	mm	160 / 180	160 / 180
g04 Exhaust air - diameter	mm	160 / 180	160 / 180
g05 Extract air - diameter	mm	160 / 180	160 / 180
g06 Supply air - diameter	mm	160 / 180	160 / 180
i13 Wall mounting bracket		•	•

Minimum clearance diagram



Supply and extract air with heat recovery, wall mounting

LWZ 180 E/280 E

LWZ 180 Enthalpie

Benefits

- An enthalpy heat exchanger is built in for recovering moisture in the winter
- For apartments, family houses and commercial properties with an area of up to 250 m²
- Central supply and extract air system for optimum air quality
- Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- Simple to control via the ergonomic programming unit
- Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
- During the hot summer nights, temperature is reduced by means of the integral bypass module
- Pollutants are continuously removed from the living space
- Easy electrical installation as the connection panel is readily accessible even when the appliance is closed

Application • This central ventilation unit with heat recovery is suitable for ventilating family houses, large apartments and small commercial properties.

Convenience features • The unit is in a contemporary design with ergonomically arranged programming unit and separate filter cover panel. • The integral controller is operated via the multifunction display, which is also used to set the seven-day program. The display can be used as a remote control. • The integral bypass damper in the supply air line prevents heat recovery from the extract air on hot summer nights. • The heating coil with electric preheating provides additional comfort by routing the supply air, which is a higher temperature, into the room. • The unit is fitted with an enthalpy heat exchanger for moisture recovery. The humidity sensor can be used for humidity-dependent control of the air flow rate.

Efficiency • The backwards-curved constant flow rate fan with air flow rate control ensures balanced air flow rates, promoting efficient operation. • The cross-countercurrent heat exchanger routes the supply and extract air streams so that they cross each other inside the unit. This extends the contact time for heat exchange, which improves the overall efficiency of the system. • The filter can be replaced easily thanks to the combi filter cassette. A fine dust filter is available as an optional accessory.

Installation • The unit can be installed in apartments, utility rooms and basement rooms. • The air connections are located at the top of the unit. • The electrical connection panel is easy to access without having to open the unit. • The ventilation unit has a duplex sheet steel casing with a powder coated finish on visible surfaces.

		LWZ 180 Enthalpie	LWZ 280 Enthalpie
Part number		**236646**	**236647**
Specification			
Heat recovery level up to	%	89	89
Filter class		ePM10 ≥ 50 % (M5) | ISO Coarse ≥ 65 % (G4)	ePM10 ≥ 50 % (M5) | ISO Coarse ≥ 65 % (G4)
Sound power level (EN 12102)	dB(A)	43	48
Height	mm	997	997
Width	mm	690	690
Depth	mm	534	534
Air connection diameter	mm	160	160
Weight	kg	80	80
Rated voltage	V	230	230
Air flow rate	m³/h	60-250	60-350
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-37.32	-35.04
Specific energy consumption in moderate climates, central demand-dependent control	kWh/(m²a)	-39.21	-37.73
Energy efficiency class, moderate climates, time control		A	A
Energy efficiency class, moderate climates, central demand-dependent control		A	A
Energy efficiency class		A+	A+
Recommended accessories			
Part number		**205018**	**205018**
Type		FEB 2.0	FEB 2.0
Description		Control unit for central ventilation	Control unit for central ventilation

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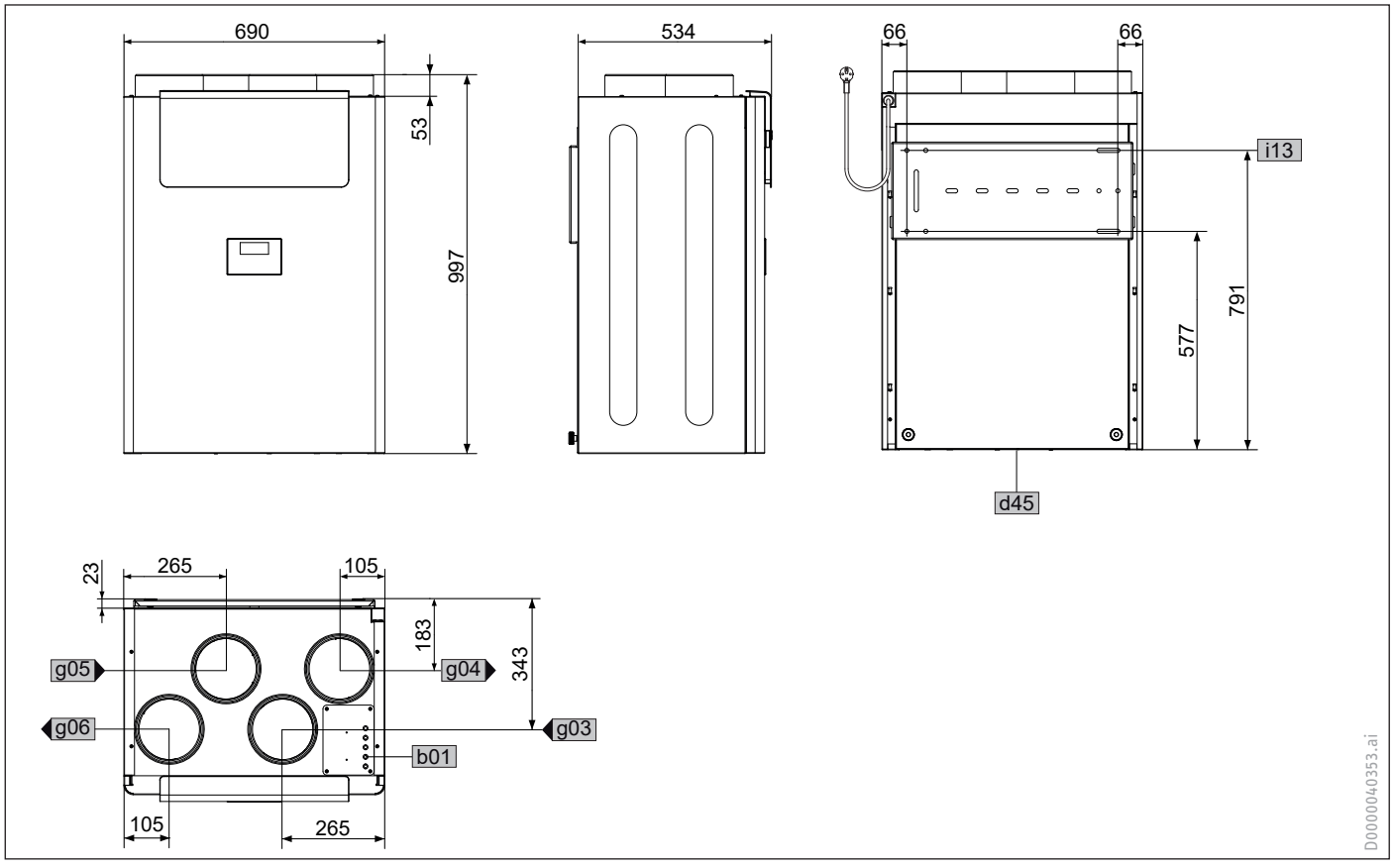
Supply and extract air with heat recovery, wall mounting

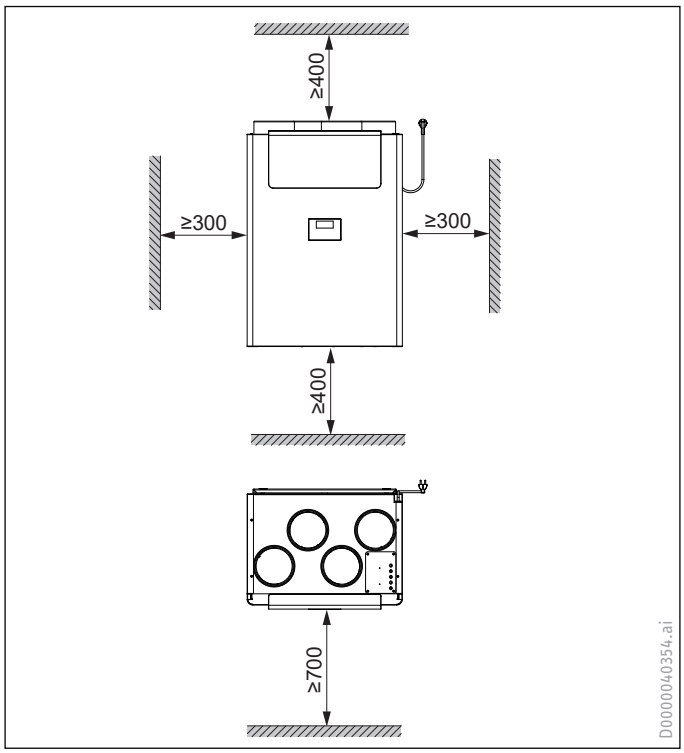
		LWZ 180 Enthalpie	LWZ 280 Enthalpie
Part number		**206611**	**206611**
Type		WLAN VRC .1	WLAN VRC .1
Description		[ERROR READING XHTML FRAGMENT]	[ERROR READING XHTML FRAGMENT]
Service			
Part number		**240592**	**240592**
Type		Planning of ventilation technology, 3D	Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment	Engineering service: ventilation equipment
Maintenance			
Part number		**234147**	**234147**
Type		FMS G4-10 180	FMS G4-10 180
Description		Filter mat set	Filter mat set
Part number		**234148**	**234148**
Type		FMK M5-2 180	FMK M5-2 180
Description		Filter cassette set	Filter cassette set
Part number		**234208**	**234208**
Type		FMK F7-2 180	FMK F7-2 180
Description		Filter cassette set F7, 2 pce	Filter cassette set F7, 2 pce



Supply and extract air with heat recovery, wall mounting

		LWZ 180 Enthalpie	LWZ 280 Enthalpie
b01 Entry electrical cables		•	•
d45 Condensate drain - diameter	mm	22	22
g03 Outdoor air		•	–
g03 Outdoor air - diameter	mm	160 / 180	160 / 180
g04 Exhaust air - diameter	mm	160 / 180	160 / 180
g05 Extract air - diameter	mm	160 / 180	160 / 180
g06 Supply air - diameter	mm	160 / 180	160 / 180
i13 Wall mounting bracket		•	•

Minimum clearance diagram



Supply and extract air with heat recovery, wall mounting

VRC-W 400/400 E

VRC-W 400

Benefits

- For apartments, family houses and commercial properties with an area of up to 250 m²
- Central supply and extract air system for optimum air quality
- Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- Simple to control via the ergonomic programming unit
- Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
- During the hot summer nights, temperature is reduced by means of the integral bypass module
- Pollutants are continuously removed from the living space
- Easy electrical installation as the connection panel is readily accessible even when the appliance is closed
- An enthalpy heat exchanger is built in for recovering moisture in the winter (Product: 203637)

Application • This central ventilation unit with heat recovery is used for ventilating family houses, large apartments and small commercial properties.

Convenience features • Contemporary design with ergonomically arranged programming unit. • The integral controller is equipped with a multifunction display and seven-day program and can also be used as a remote control. • The appliance offers a wide range of benefits: highly efficient, backwards-curved fan with constant flow rate control, highly efficient cross-countercurrent heat exchanger, electric preheating via high performance heating coil, bypass damper in the supply air duct. • The integral humidity sensor in the extract air can be used for humidity-dependent control of the air flow rate. • Easy filter change via combi filter cassette. Fine dust filters are available as an accessory. • The duplex sheet steel casing has a visible surface with alpine white powder coated finish.

Efficiency • The backwards-curved constant flow rate fans with air flow rate control ensure balanced air flow rates, thereby promoting efficient operation.

Installation • Installation in apartments, utility rooms, basement rooms, etc. • The air connections are located at the top of the unit; the electrical connection panel can be easily accessed without having to open the unit.

		VRC-W 400	VRC-W 400 E
Part number		**203636**	**203637**
Specification			
Heat recovery level up to	%	94	89
Filter class		ePM10 ≥ 50 % (M5) | ISO Coarse ≥ 65 % (G4)	ePM10 ≥ 50 % (M5) | ISO Coarse ≥ 65 % (G4)
Sound power level (EN 12102)	dB(A)	50	49,6
Height	mm	997	997
Width	mm	690	690
Depth	mm	534	534
Air connection diameter	mm	160	160
Weight	kg	78	80
Rated voltage	V	230	230
Air flow rate	m³/h	60-400	60-400
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-37.96	-35.33
Specific energy consumption in moderate climates, central demand-dependent control	kWh/(m²a)	-40.18	-37.28
Energy efficiency class, moderate climates, time control		A+	A
Energy efficiency class, moderate climates, central demand-dependent control		A	A
Energy efficiency class		A	A
Recommended accessories			
Part number		**205018**	**205018**
Type		FEB 2.0	FEB 2.0
Description		Control unit for central ventilation	Control unit for central ventilation
Part number		**206611**	**206611**
Type		WLAN VRC .1	WLAN VRC .1
Description		[ERROR READING XHTML FRAGMENT]	[ERROR READING XHTML FRAGMENT]

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		VRC-W 400	VRC-W 400 E
Service			
Part number		**240592**	**240592**
Type		Planning of ventilation technology, 3D	Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment	Engineering service: ventilation equipment
Maintenance			
Part number		**234147**	**234147**
Type		FMS G4-10 180	FMS G4-10 180
Description		Filter mat set	Filter mat set
Part number		**234148**	**234148**
Type		FMK M5-2 180	FMK M5-2 180
Description		Filter cassette set	Filter cassette set
Part number		**234208**	**234208**
Type		FMK F7-2 180	FMK F7-2 180
Description		Filter cassette set F7, 2 pce	Filter cassette set F7, 2 pce

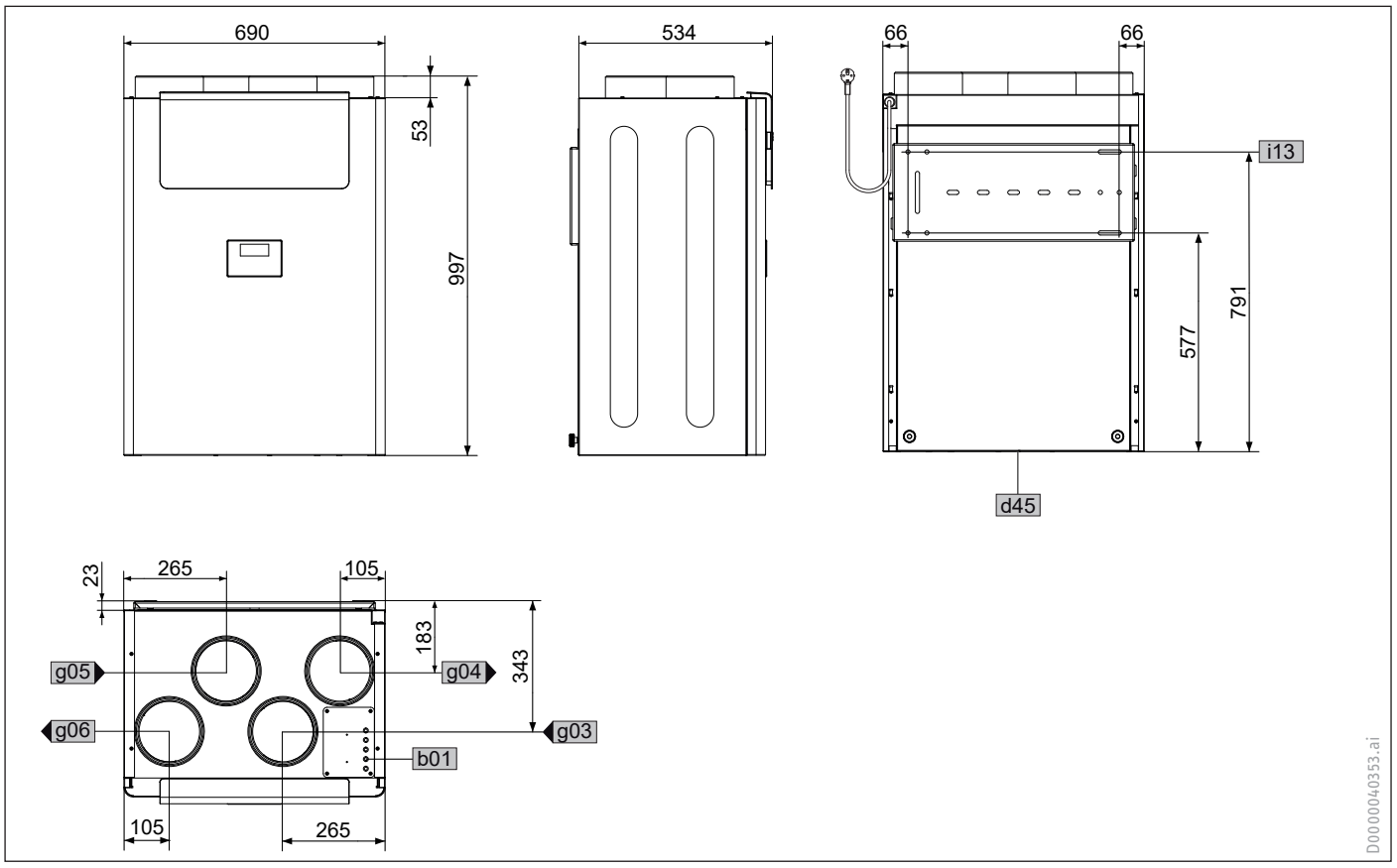
The following are supplied with the device: Wall suspension, 2 star handles as spacers for the back of the device, condensate drain hose, hose clamp, hanging bend, 4 double nipples nominal width 160 (Product: 203636)

The following are supplied with the device: Wall suspension,2 star handles as spacers for the back of the device, Condensate drain hose, hose clamp, hanging bend, 4 double nipples nominal width 160

(Product: 203637)

STIEBEL ELTRON central ventilation unit VRC-W 400 higher air volume (400 m3/h) with heat recovery (sensible heat exchanger), bypass module, integrated preheating.

STIEBEL ELTRON central ventilation unit VRC-W 400 E higher air volume (400 m3/h) with heat recovery (enthaphy heat exchanger), bypass module, integrated preheating. (Product: 203637)



Supply and extract air with heat recovery, wall mounting

		VRC-W 400	VRC-W 400 E
b01 Entry electrical cables		•	•
d45 Condensate drain - diameter	mm	22	22
g03 Outdoor air - diameter	mm	160 / 180	160 / 180
g04 Exhaust air - diameter	mm	160 / 180	160 / 180
g05 Extract air - diameter	mm	160 / 180	160 / 180
g06 Supply air - diameter	mm	160 / 180	160 / 180
i13 Wall mounting bracket		•	•

Supply and extract air with heat recovery, wall mounting

VRC-W 450/600 Premium

VRC-W 450 Premium

Benefits

- Central supply and extract air system for optimum air quality
- Durable and hygienic polymer heat exchanger with high thermal efficiency
- Well designed condensate drain prevents water leaks even in tropical climates
- Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
- Easy electrical installation as the connection panel is readily accessible even when the appliance is closed
- Convenient CO2-controlled ventilation via the removable programming unit that can be used as a remote control

Application • This central ventilation unit is suitable for use in family houses, apartments and small commercial properties. • It is distinguished by its high air flow rate and heat recovery for ventilation.

Convenience features • The ventilation unit boasts a compact, aesthetic design with ergonomic user interface. Remote control with matrix display; eleven languages available. • Easy and convenient control of the appliance via Wi-Fi® and the MyStiebel app for a comfortable climate. The MyStiebel app is the platform for remote operation of many appliances and systems such as ventilation systems and heat pumps from STIEBEL ELTRON • Electrical preheating via high performance heating coil. • Energy savings thanks to bypass duct with damper in the supply air line for passive cooling/heating. • Multiple sensors for temperature, humidity and CO2/VOC for zone control. • Separate filter cover. Easy filter change thanks to individually replaceable frame filters. HEPA filter against COVID-19 and PM2.5 available as accessory. • Powder coated sheet steel casing.

Efficiency • High thermal efficiency and high moisture recovery. Energy savings with both cooling and heating functions. • High efficiency cross-countercurrent heat exchanger. • High electrical efficiency (SPI) of the integral EC fan with constant air flow rate control.

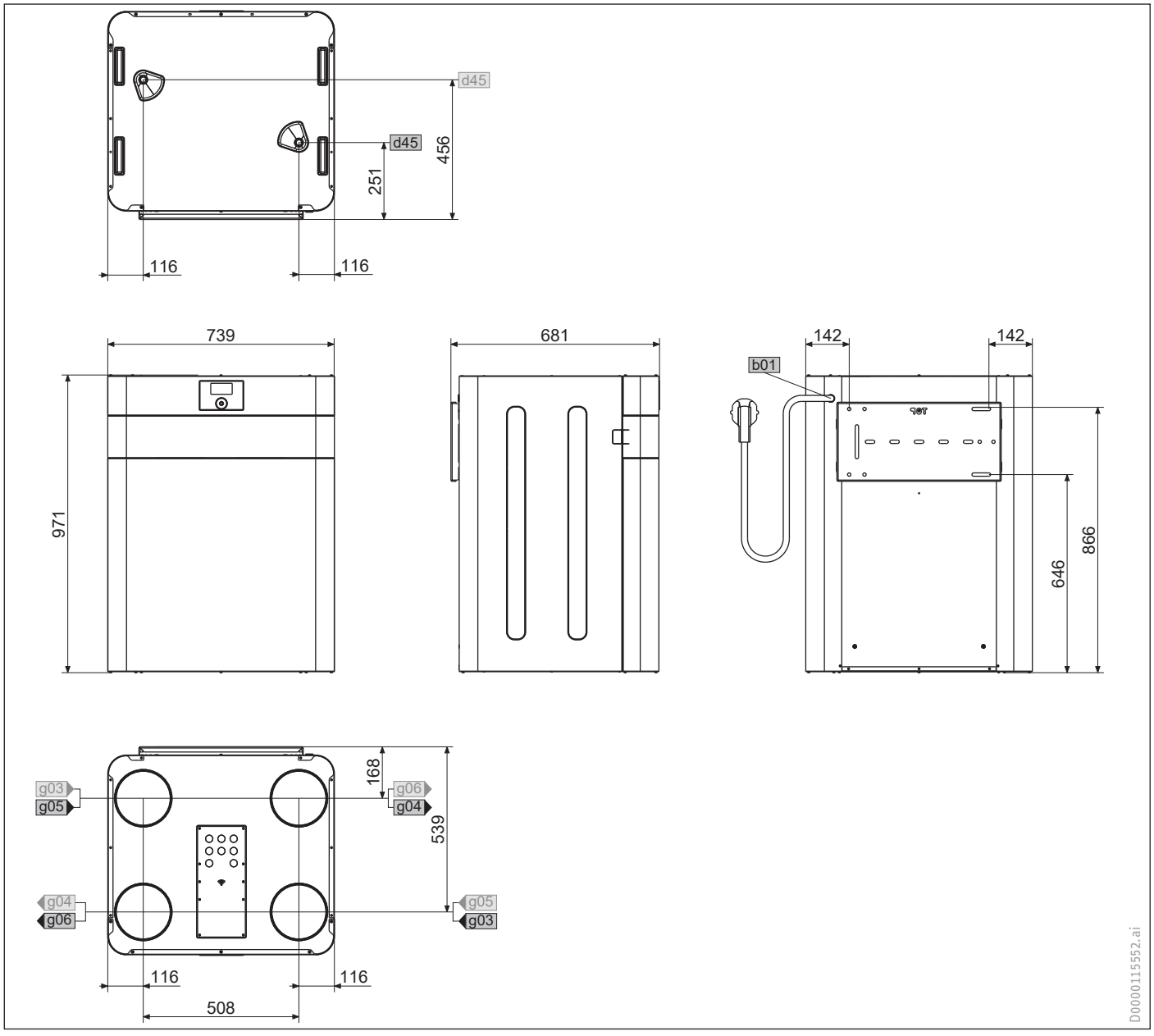
Installation • Installation in dwellings, utility rooms, basements, etc. The air connections are located at the top of the appliance and the electrical connection panel can be easily accessed. • The appliance can be converted on site for connection on the right or left in just a few simple steps, thus offering maximum flexibility during installation. • Easy maintenance: Heat exchangers and filters can be serviced without tools.

		VRC-W 450 Premium	VRC-W 600 Premium
		NEW	NEW
Part number		**204940**	**204714**
Specification			
Heat recovery level up to	%	94.5	90
Filter class		ePM1 ≥ 50 % (F7) | ISO Coarse > 60 % (G4)	ePM1 ≥ 50 % (F7) | ISO Coarse ≥ 65 % (G4)
Sound power level (EN 12102)	dB(A)	48,5	53,7
Height	mm	975	975
Width	mm	740	740
Depth	mm	655	655
Air connection diameter	mm	180	180
WLAN		802.11b/g/n/ 2.4 GHz/DHCP	802.11b/g/n/ 2.4 GHz/DHCP
Weight	kg	63	57
Rated voltage	V	230	230
Air flow rate	m³/h	110 - 450	150 - 600
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-40.35	-38.30
Specific energy consumption in moderate climates, central demand-dependent control	kWh/(m²a)	-41.69	-39.99
Energy efficiency class, moderate climates, time control		A	A
Energy efficiency class, moderate climates, central demand-dependent control		A	A
Energy efficiency class		A+	A
Recommended accessories			
Part number		**206612**	**206612**
Type		FEB 2.1	FEB 2.1
Description		Control unit for central ventilation	Control unit for central ventilation

next page >

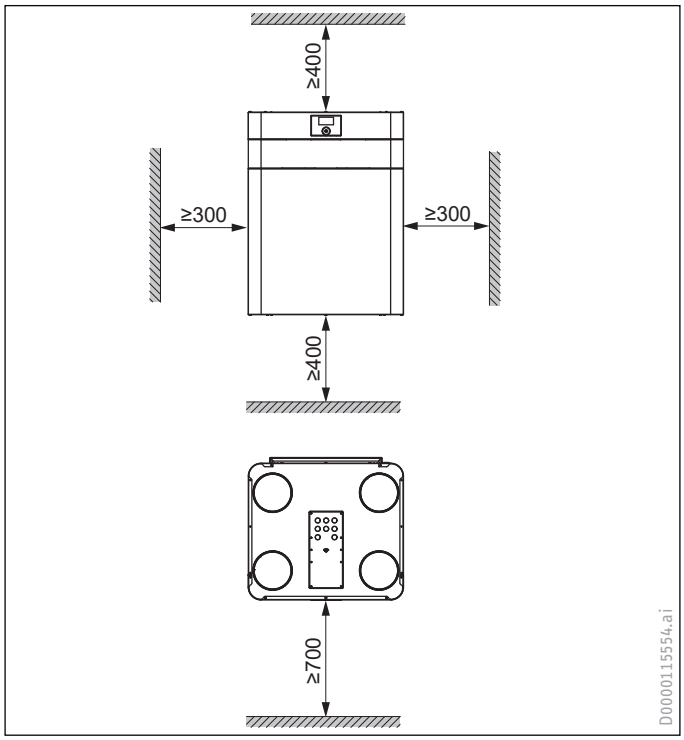
Supply and extract air with heat recovery, wall mounting

		VRC-W 450 Premium	VRC-W 600 Premium
Maintenance			
Part number		**206596**	**206596**
Type		FMK EPM1 55-2 W450/600	FMK EPM1 55-2 W450/600
Description		Filter cassette set F7, 2 pce	Filter cassette set F7, 2 pce
Part number		**206597**	**206597**
Type		FMK EPA 12-2 W450/600	FMK EPA 12-2 W450/600
Description		Spare parts	Spare parts
Part number		**206610**	**206610**
Type		FMS EPMC 65-10 W450/600	FMS EPMC 65-10 W450/600
Description		Filter mat set	Filter mat set



		VRC-W 450 Premium	VRC-W 600 Premium
a10 Appliance - height	mm	972	972
a20 Appliance - width	mm	745	745
a30 Appliance - depth	mm	655	655
b07 Electrical connection - electrical connection		•	•
d45 Condensate drain		•	•
g03 Outdoor air - diameter	mm	180	180
g04 Exhaust air - diameter	mm		180
g05 Extract air - diameter	mm	180	
g06 Supply air		–	•
g06 Supply air - diameter	mm	180	180
i13 Wall mounting bracket		•	•

Minimum clearance diagram



Supply and extract air with heat recovery, wall mounting

VRC-W 450/600 E Premium

VRC-W 450 E Premium

Benefits

- Central supply and extract air system for optimum air quality
- Durable and hygienic polymer heat exchanger with high thermal efficiency
- Moisture in the air is recovered by means of the integral enthalpy heat exchanger
- Well designed condensate drain prevents water leaks even in tropical climates
- Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
- Easy electrical installation as the connection panel is readily accessible even when the appliance is closed
- Convenient CO2-controlled ventilation via the removable programming unit that can be used as a remote control

Application • This central ventilation unit is suitable for use in family houses, apartments and small commercial properties. • It is distinguished by its high air flow rate and heat recovery for ventilation.

Convenience features • The ventilation unit boasts a compact, aesthetic design with ergonomic user interface. Remote control with matrix display; eleven languages available. • Easy and convenient control of the appliance via Wi-Fi® and the MyStiebel app for a comfortable climate. The MyStiebel app is the platform for remote operation of many appliances and systems such as ventilation systems and heat pumps from STIEBEL ELTRON • Electrical preheating via high performance heating coil. • Energy savings thanks to bypass duct with damper in the supply air line for passive cooling/heating. • Multiple sensors for temperature, humidity and CO2/VOC for zone control. • Separate filter cover. Easy filter change thanks to individually replaceable frame filters. HEPA filter against COVID-19 and PM2.5 available as accessory. • Powder coated sheet steel casing.

Efficiency • High thermal efficiency and high moisture recovery. Energy savings with both cooling and heating functions. • High efficiency cross-countercurrent heat exchanger. • High electrical efficiency (SPI) of the integral EC fan with constant air flow rate control.

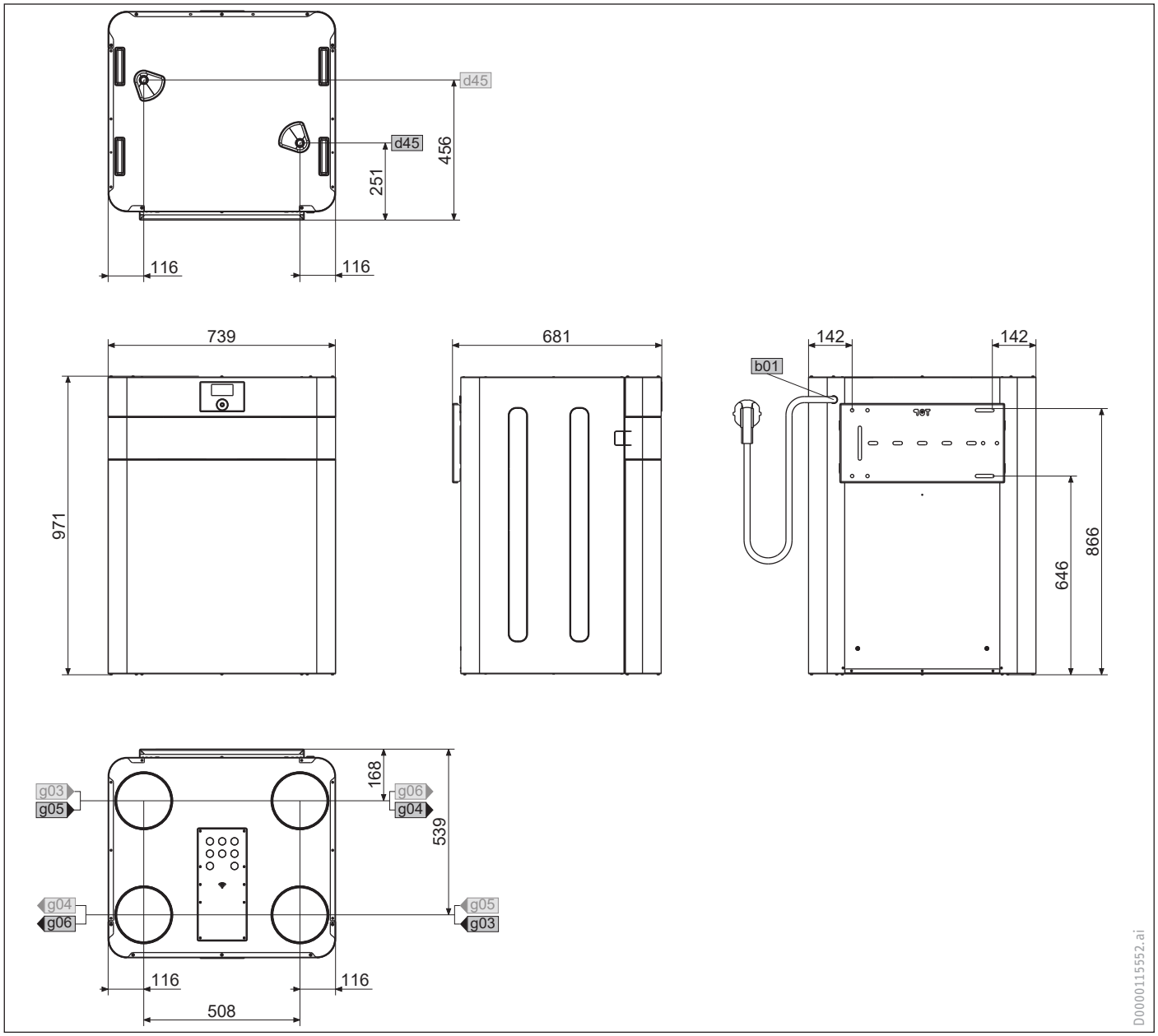
Installation • Installation in dwellings, utility rooms, basements, etc. The air connections are located at the top of the appliance and the electrical connection panel can be easily accessed. • The appliance can be converted on site for connection on the right or left in just a few simple steps, thus offering maximum flexibility during installation. • Easy maintenance: Heat exchangers and filters can be serviced without tools.

		VRC-W 450 E Premium	VRC-W 600 E Premium
		NEW	NEW
Part number		**204941**	**204715**
Specification			
Heat recovery level up to	%	77	74.8
Filter class		ePM1 ≥ 50 % (F7) | ISO Coarse > 60 % (G4)	ePM1 ≥ 50 % (F7) | ISO Coarse ≥ 65 % (G4)
Sound power level (EN 12102)	dB(A)	48,5	53,7
Height	mm	975	975
Width	mm	740	740
Depth	mm	655	655
Air connection diameter	mm	180	180
WLAN		802.11b/g/n/ 2.4 GHz/DHCP	802.11b/g/n/ 2.4 GHz/DHCP
Weight	kg	63	63
Rated voltage	V	230	230
Air flow rate	m³/h	110 - 450	150 - 600
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-37.07	-34.99
Specific energy consumption in moderate climates, central demand-dependent control	kWh/(m²a)	-38.71	-36.98
Energy efficiency class, moderate climates, time control		A	A
Energy efficiency class, moderate climates, central demand-dependent control		A	A
Energy efficiency class		A+	A

next page >

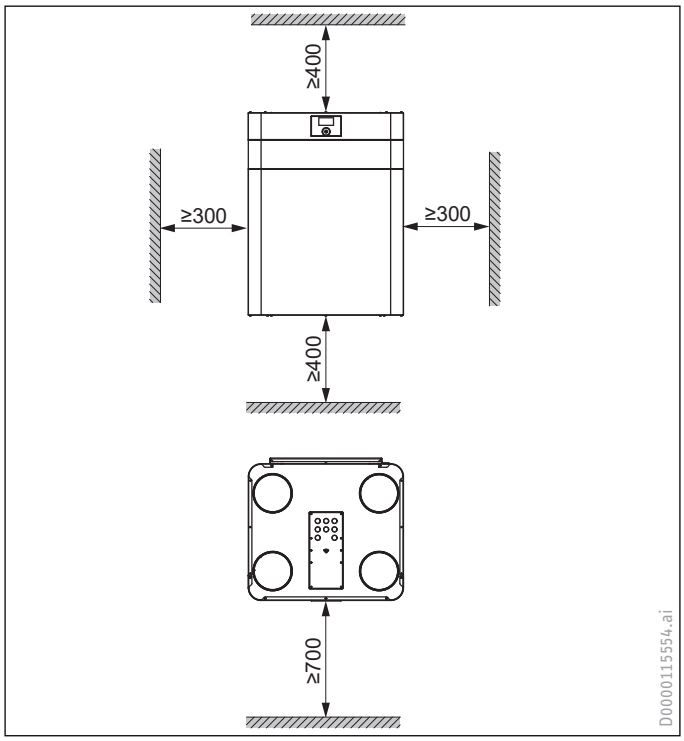
		VRC-W 450 E Premium	VRC-W 600 E Premium
Recommended accessories			
Part number		**206612**	**206612**
Type		FEB 2.1	FEB 2.1
Description		Control unit for central ventilation	Control unit for central ventilation
Maintenance			
Part number		**206596**	**206596**
Type		FMK EPM1 55-2 W450/600	FMK EPM1 55-2 W450/600
Description		Filter cassette set F7, 2 pce	Filter cassette set F7, 2 pce
Part number		**206597**	**206597**
Type		FMK EPA 12-2 W450/600	FMK EPA 12-2 W450/600
Description		Spare parts	Spare parts
Part number		**206610**	**206610**
Type		FMS EPMC 65-10 W450/600	FMS EPMC 65-10 W450/600
Description		Filter mat set	Filter mat set

Supply and extract air with heat recovery, wall mounting



		VRC-W 450 E Premium	VRC-W 600 E Premium
a10 Appliance - height	mm	972	974
a20 Appliance - width	mm	745	740
a30 Appliance - depth	mm	655	655
b07 Electrical connection - electrical connection		•	•
d45 Condensate drain		•	•
g03 Outdoor air - diameter	mm		180
g04 Exhaust air - diameter	mm		180
g05 Extract air		•	
g05 Extract air - diameter	mm	180	180
g06 Supply air		•	•
g06 Supply air - diameter	mm	180	180
i13 Wall mounting bracket		•	•

Minimum clearance diagram



Supply and extract air with heat recovery, wall mounting

LWZ 70 E

LWZ 70 E

Benefits

- Central supply and extract air system for optimum air quality
- Pollutants are continuously removed from the living space
- Easy adjustment with constant flow rate fan
- High heat recovery through cross-countercurrent heat exchanger
- Easy to program using the integral programming unit

Application • This central ventilation unit with heat recovery is suitable for ventilating apartments and family houses.

Convenience features • The powder coated sheet steel casing is distinguished by its modern design with ergonomically arranged programming unit. • Highly efficient fans with constant flow rate control and the highly efficient cross-countercurrent heat exchanger are integrated into the unit. • The air flow rate can be selected in three stages. • Filters are easy to change thanks to the separate cover panel.

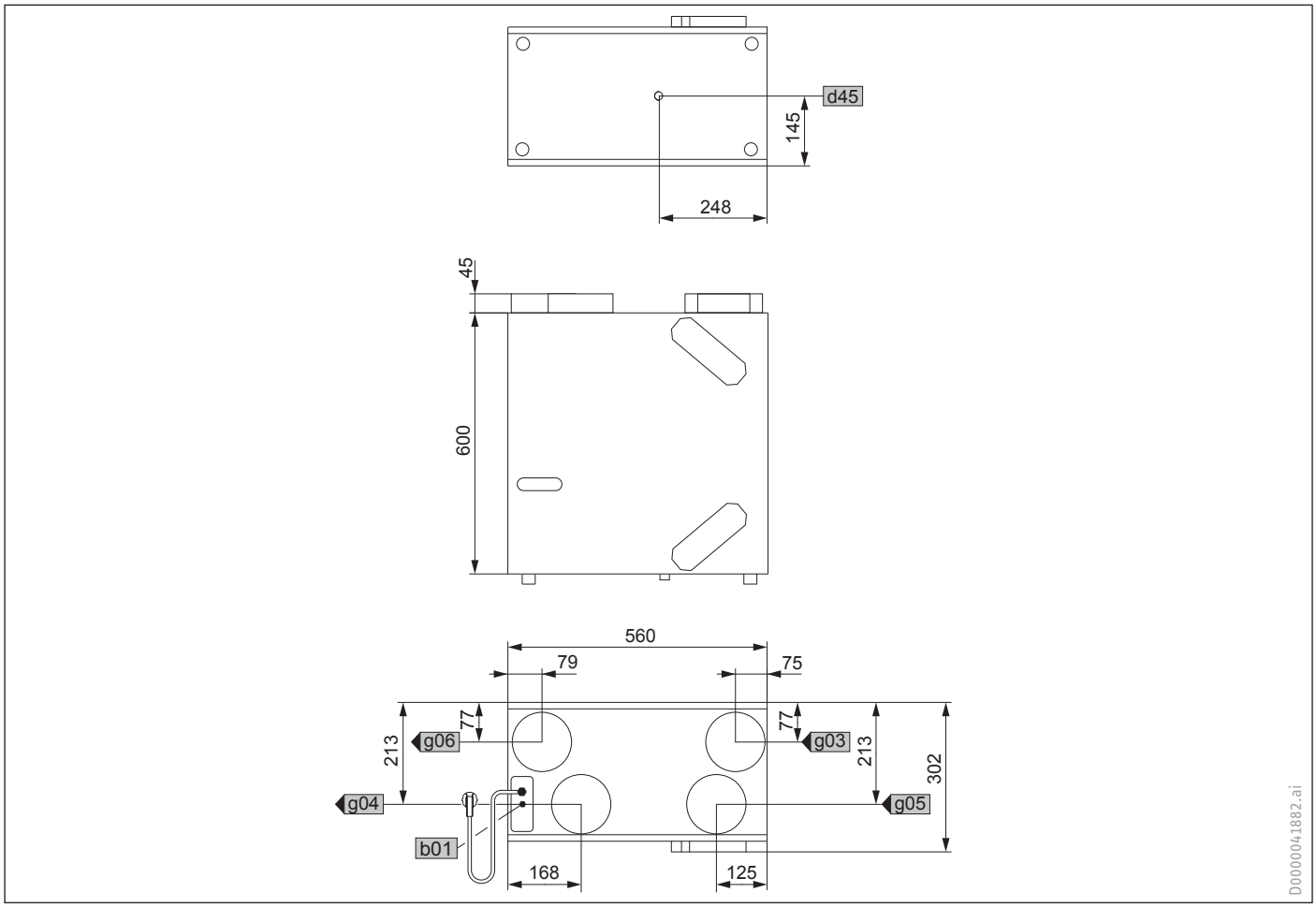
Efficiency • The constant flow rate fans with air flow rate control ensure balanced air flow rates, promoting efficient operation.

Installation • The ventilation unit is installed indoors, for example in the utility room. The air connections are located at the top of the unit.

		LWZ 70 E
Part number		**233851**
Specification		
Heat recovery level up to	%	90
Power consumption, fan	W	80
Sound power level (EN 12102)	dB(A)	46
Height	mm	600
Width	mm	560
Depth	mm	290
Air connection diameter	mm	125
Weight	kg	25
Rated voltage	V	230
Air flow rate	m³/h	50-180
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-35.96
Specific energy consumption in moderate climates, central demand-dependent control	kWh/(m²a)	-38.16
Energy efficiency class, moderate climates, time control		A
Energy efficiency class, moderate climates, central demand-dependent control		A
Energy efficiency class		A
Recommended accessories		
Part number		**185358**
Type		FEZ
Description		Remote control
Part number		**227046**
Type		LSK 70 E
Description		Summer cassette
Part number		**234866**
Type		ZLWZ 4 S
Description		Four-stage switch
Part number		**236038**
Type		ZLWZ VHR 70 E
Description		Preheating coil

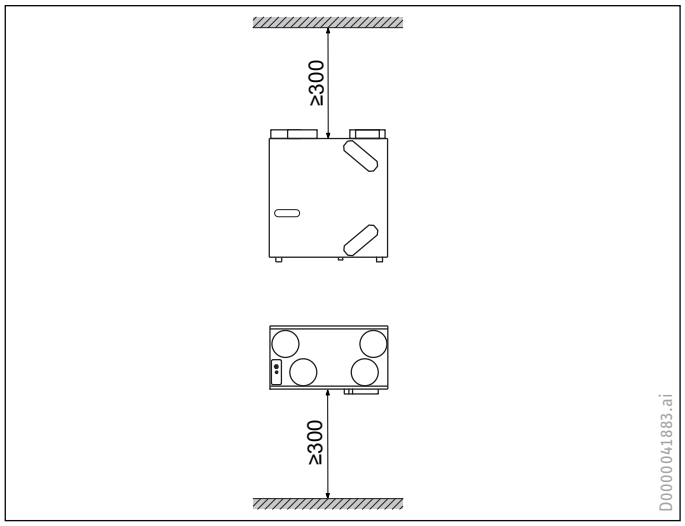
next page >

		LWZ 70 E
Service		
Part number		**240592**
Type		Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment
Maintenance		
Part number		**222446**
Type		FMS G3-10 70
Description		Filter mat set
Part number		**227660**
Type		FMK F7-2 70
Description		Filter cassette set F7, 2 pce



		LWZ 70 E
b01 Entry electrical cables		•
d45 Condensate drain - diameter	mm	13
g03 Outdoor air - nominal diameter		DN 125
g04 Exhaust air - nominal diameter		DN 125
g05 Extract air - nominal diameter		DN 125
g06 Supply air - nominal diameter		DN 125

Minimum clearance diagram



Supply and extract air with heat recovery, wall mounting

LWZ 170/370 plus

LWZ 170 E Plus

Benefits

- Central supply and extract air system for optimum air quality
- Pollutants are continuously removed from the living space
- Easy adjustment with constant flow rate fan
- Easy to program using the integral programming unit
- High heat recovery through cross-countercurrent heat exchanger
- Integral bypass module and preheating coil
- High heat recovery rate of up to 90 %

Application • This central ventilation system with heat recovery is specifically designed for use in large family houses and smaller commercial properties.

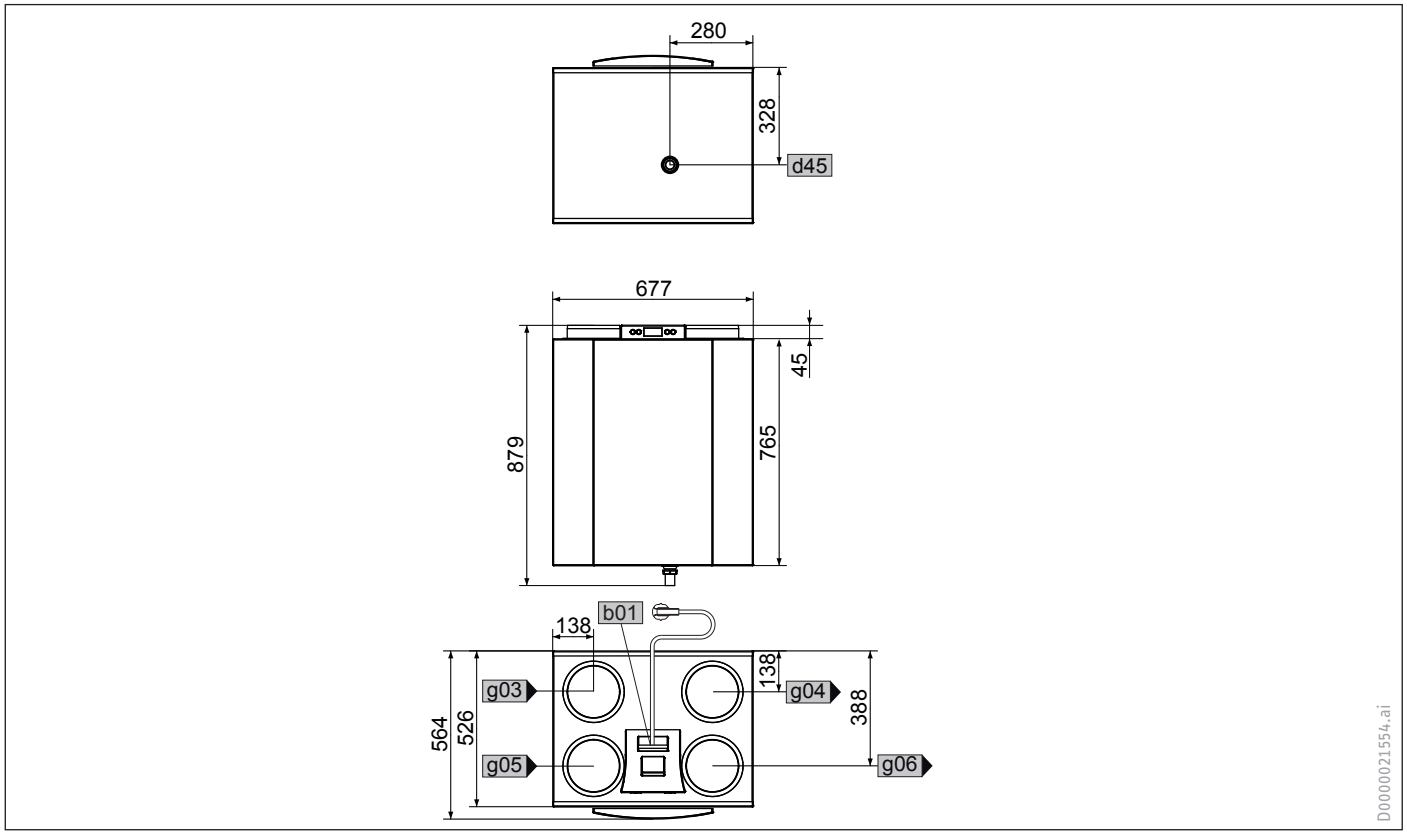
Application • These slow-turning, highly efficient fans guarantee a high air flow rate with significantly reduced noise levels. The air flow rate can be conveniently adjusted in three stages via a remote control (required accessories). Up to 90 % of the thermal energy in the extract air is recovered by an efficient cross-countercurrent heat exchanger. • The optimised heat exchanger and minimisation of the internal pressure drop enable very quiet and efficient operation. An integrated bypass prevents unwanted heat transfer on hot days.

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

233850

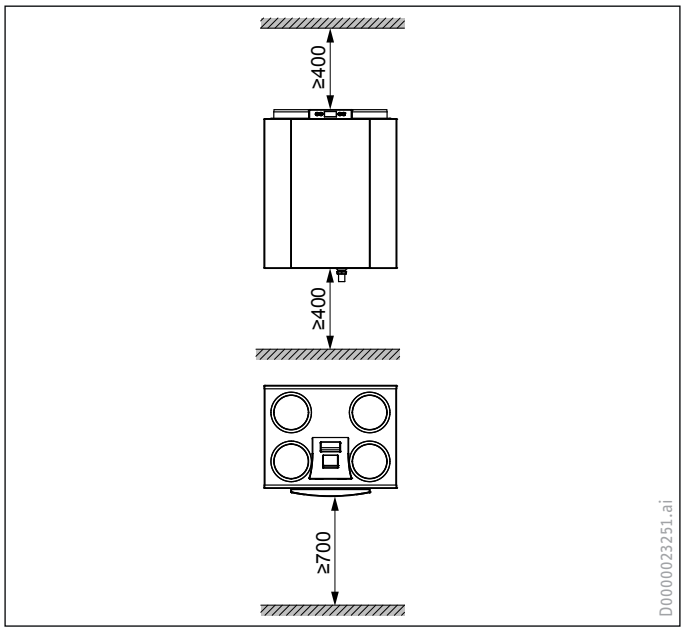
		LWZ 170 E Plus	LWZ 370 plus
Part number		**233850**	**232033**
Specification			
Heat recovery level up to	%	90	90
Power consumption, fan	W	138	172
Sound power level (EN 12102)	dB(A)	44	54
Height	mm	765	765
Width	mm	677	677
Depth	mm	567	567
Air connection diameter	mm	160	180
Weight	kg	38	38
Rated voltage	V	230	230
Air flow rate	m³/h	50-300	50-400
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-38.38	-37.23
Specific energy consumption in moderate climates, central demand-dependent control	kWh/(m²a)	-40.01	-39.06
Energy efficiency class, moderate climates, time control		A	A
Energy efficiency class, moderate climates, central demand-dependent control		A	A
Energy efficiency class		A	A
Service			
Part number		**240592**	**240592**
Type		Planning of ventilation technology, 3D	Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment	Engineering service: ventilation equipment

Supply and extract air with heat recovery, wall mounting



		LWZ 170 E Plus	LWZ 370 plus
b01 Entry electrical cables		•	•
d45 Condensate drain - diameter	mm	32	32
g03 Outdoor air - nominal diameter		DN 160	DN 160
g04 Exhaust air - nominal diameter		DN 160	DN 160
g05 Extract air - nominal diameter		DN 160	DN 160
g06 Supply air - nominal diameter		DN 160	DN 160

Minimum clearance diagram



Supply and extract air with heat recovery, ceiling mounting

LWZ 130

LWZ 130

Benefits
- Central supply and extract air system for optimum air quality
- Integral electric air preheater coil
- Space saving installation in the ceiling

Application • This central ventilation unit with heat recovery is suitable for ventilating apartments and small family houses.

Convenience features • The compact design is optimised for installation in a suspended ceiling. The appliance is suitable for living spaces up to approx. 130 m2. • The hardwired controller with multifunction display can also be used as a wall mounted programming unit and is equipped with an integral humidity sensor and seven-day program. • The unit boasts the following features: efficient constant flow rate fans, electric preheating via high performance heating coil, electronic bypass. • Simple filter change, with coarse dust filter in the extract air and medium dust filter, with option of fine dust filter, in the supply air.

Efficiency • The constant flow rate fan enables a balanced air flow rate, which promotes efficient operation.

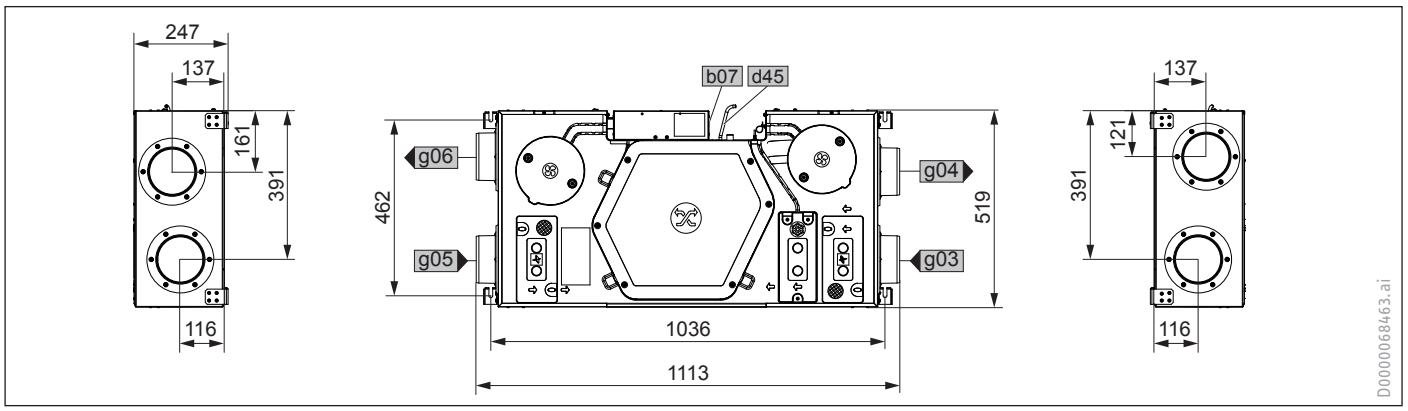
Installation • The ceiling mounted unit is installed in residential units, with the air connectors located on the right hand and left hand sides of the unit.• The electrical connection panel can be easily reached without having to open the appliance. • The EPS casing has a partial enclosure made from zinc-plated sheet steel. • Termination on the room side by means of a service flap to be installed on site.

		LWZ 130
Part number		**237805**
Specification		
Heat recovery level up to	%	94
Filter class		ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)
Power consumption, fan	W	105
Sound power level (EN 12102)	dB(A)	33
Height	mm	248
Width	mm	520
Depth	mm	1113
Air connection diameter	mm	125
Weight	kg	18
Rated voltage	V	230
Air flow rate	m³/h	50-180
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-36.63
Energy efficiency class, moderate climates, time control		A
Energy efficiency class		A
Recommended accessories		
Part number		**205018**
Type		FEB 2.0
Description		Control unit for central ventilation
Part number		**206611**
Type		WLAN VRC .1
Description		[ERROR READING XHTML FRAGMENT]
Service		
Part number		**240592**
Type		Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment
Maintenance		
Part number		**238923**
Type		FMS G4-10 130/135
Description		Filter mat set

next page >

Supply and extract air with heat recovery, ceiling mounting

		LWZ 130
Part number		**238924**
Type		FMK M5-2 130/135
Description		Filter cassette set
Part number		**238925**
Type		FMK F7-2 130/135
Description		Filter cassette set F7, 2 pce



		LWZ 130
b07 Electrical connection - electrical connection		•
d45 Condensate drain - diameter	mm	16.5
g03 Outdoor air - diameter	mm	125
g04 Exhaust air - diameter	mm	125
g05 Extract air - diameter	mm	125
g06 Supply air - diameter	mm	125

Supply and extract air with heat recovery, ceiling mounting

LWZ 130 E

LWZ 130 Enthalpie

Benefits

- Central supply and extract air system for optimum air quality
- Integral electric air preheater coil
- Integral moisture recovery (on enthalpy version)
- Enthalpy version simpler to install as there is no condensate drain
- Space saving installation in the ceiling

Application • This central ventilation unit with heat recovery is suitable for ventilating apartments and small family houses.

Convenience features • The compact design is optimised for installation in a suspended ceiling. The appliance is suitable for living spaces up to approx. 130 m2. • The hardwired controller with multifunction display can also be used as a wall mounted programming unit and is equipped with an integral humidity sensor and seven-day program. • The unit is distinguished by the following features: efficient constant flow rate fans, highly efficient cross-countercurrent heat exchanger with moisture recovery, electric preheating via high performance heating coil, electronic bypass. • Simple filter change, with coarse dust filter in the extract air and medium dust filter, with option of fine dust filter, in the supply air.

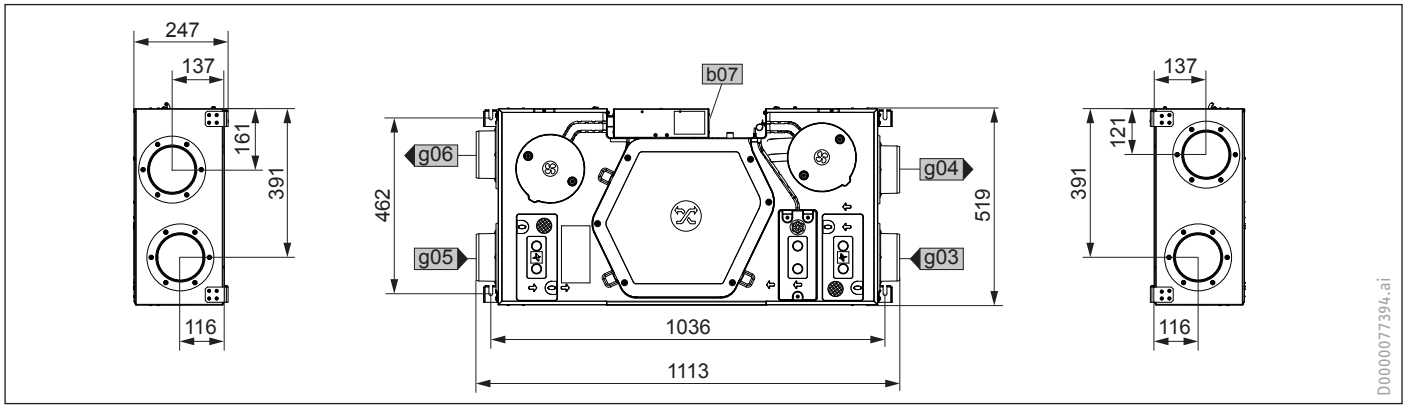
Efficiency • The constant flow rate fan enables a balanced air flow rate, which promotes efficient operation.

Installation • The ceiling mounted unit is installed in residential units, with the air connectors located on the right hand and left hand sides of the unit. • The electrical connection panel is easy to access, without having to open the unit. • The EPS casing has a partial enclosure made from zinc-plated sheet steel. • Termination on the room side by means of a service flap to be installed on site.

		LWZ 130 Enthalpie
Part number		**237806**
Specification		
Heat recovery level up to	%	89
Filter class		ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)
Power consumption, fan	W	105
Sound power level (EN 12102)	dB(A)	33
Height	mm	248
Width	mm	520
Depth	mm	1113
Air connection diameter	mm	125
Weight	kg	18
Rated voltage	V	230
Air flow rate	m³/h	50-180
Specific energy consumption in moderate climates, time control	kWh/(m²a)	-34.02
Energy efficiency class, moderate climates, time control		A
Energy efficiency class		A
Recommended accessories		
Part number		**205018**
Type		FEB 2.0
Description		Control unit for central ventilation
Part number		**206611**
Type		WLAN VRC .1
Description		[ERROR READING XHTML FRAGMENT]
Service		
Part number		**240592**
Type		Planning of ventilation technology, 3D
Description		Engineering service: ventilation equipment

next page >

		LWZ 130 Enthalpie
Maintenance		
Part number		**238923**
Type		FMS G4-10 130/135
Description		Filter mat set
Part number		**238924**
Type		FMK M5-2 130/135
Description		Filter cassette set
Part number		**238925**
Type		FMK F7-2 130/135
Description		Filter cassette set F7, 2 pce



		LWZ 130 Enthalpie
b07 Electrical connection - electrical connection		•
g03 Outdoor air - diameter	mm	125
g04 Exhaust air - diameter	mm	125
g05 Extract air - diameter	mm	125
g06 Supply air - diameter	mm	125

Supply and extract air with heat recovery, ceiling mounting

Accessories
Accessories 420
Controllers
Accessories 422
Filter
Accessories 425

LWTF 180/280

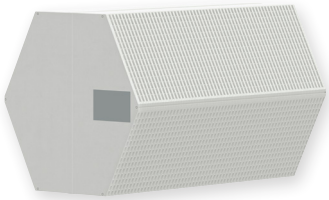
Benefits
- Moisture recovery prevents the indoor air from becoming too dry
- Improved room climate in winter
- Straightforward replacement for existing heat exchanger

Description • The enthalpy heat exchanger for the central ventilation units 180 and 280 replaces the cross-countercurrent heat exchanger in the winter months. • The highly efficient, moisture-transferring enthalpy heat exchanger is equipped with a selective plastic film membrane. The membrane recovers the moisture from the extract air and transfers it to the supply air. This increases the low relative humidity in the rooms during the winter months. • The membrane prevents the transfer of gases and impurities; it is distinguished by a long service life, high leak tightness and low pressure drop. It is antimicrobial and resistant to frost and heat.

LWTF 180/280

		LWTF 180/280
Part number		**236420**
Specification		
Height	mm	366
Width	mm	366
Depth	mm	395

LWTF W450/600



Benefits
- Enthalpy heat exchanger for W450/W600
- Moisture recovery prevents the indoor air from becoming too dry
- Improved room climate in winter
- Straightforward replacement for existing heat exchanger

Description • The enthalpy heat exchanger replaces the cross-countercurrent heat exchanger in the central ventilation unit in the winter months. • The highly efficient, moisture-transferring enthalpy heat exchanger is equipped with a selective plastic film membrane. The membrane recovers the moisture from the extract air and transfers it to the supply air. This increases the low relative humidity in the rooms during the winter months. • The membrane prevents the transfer of gases and impurities; it is distinguished by a long service life, high leak tightness and low pressure drop. It is antimicrobial and resistant to frost and heat.

LWTF W450/600

		LWTF W450/600
		NEW
Part number		**359304**
Specification		
Height	mm	42
Width	mm	42
Depth	mm	39

ZLWZ VHR

Benefits
- Reduces the risk of freezing
- Preheating coil for central ventilation units
- Accessory for year-round operation of central ventilation units

Description • The electric preheating coil preheats the outdoor air in central ventilation units, in order to keep the cross-countercurrent heat exchanger frost-free in winter.

ZLWZ VHR 70 E

		ZLWZ VHR 70 E
Part number		**236038**
Specification		
Heating output	kW	1
Connection diameter	mm	160

LSK 70

Benefits
- LSK summer cassette for integral systems
- Alternative to the cross-countercurrent heat exchanger

Description • Insert module as an alternative to the cross-countercurrent heat exchanger in order to prevent heat transfer in summer.

LSK 70 E

		LSK 70 E
Part number		**227046**
Specification		
Height	mm	458
Width	mm	229
Depth	mm	283

FEB 2.0

Benefits
- Plain text display for understandable information
- Multiple languages available
- Operating mode can be switched easily via the Touch-Wheel
- Rapid ventilation function is started with action button
- Filter change and fault indicators

Description • The new FES/FEB control is combined with the central ventilation units 180/280. It enables both convenient operation and the display of system parameters specific to the living space. • Clear, understandable information via the plain text matrix display. • Customers can choose between different languages.

FEB 2.0

		FEB 2.0
Part number		**205018**
Specification		
Rated voltage	V	5
IP rating		IP22
Colour		white
Width	mm	145
Height	mm	96
Depth	mm	31

FEB controller (2.0) is converted to a matrix display with plain text (Product: 205018)

FEB 2.1

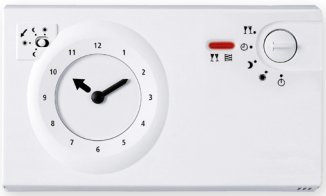
Benefits
- Control module with integral CO2/VOC sensor
- Plain text display for understandable information
- Multiple languages available
- Operating mode can be switched easily via the Touch-Wheel
- Action button starts rapid ventilation function
- Filter change and fault indicators

Description • This control (2.1) is combined with central ventilation units. It is equipped with an integral CO2/VOC sensor. The controller enables convenient operation of the ventilation unit and also displays system parameters specific to the living space. • Clear, understandable information via the plain text matrix display. • Customers can choose between different languages.

FEB 2.1

		FEB 2.1
		NEW
Part number		**206612**
Specification		
Air quality sensor		CO2
Rated voltage	V	5
IP rating		IP22
Colour		white
Width	mm	145
Height	mm	96
Depth	mm	31

FEZ



Benefits
› Straightforward operation
› Filter change indicator

Description • The remote control with time switch and operating mode switch is used to control fan settings. • A rotary selector is used to switch between operating modes. • In automatic mode, time-controlled changeover between day and night mode is effected by the time switch. • The remote control has a control display and integral power reserve, and shows upcoming filter changes on a time dependent basis.

FEZ

		FEZ
Part number		**185358**
Specification		
IP rating		IP20
Width	mm	160
Height	mm	78
Depth	mm	45

ZLWZ 4 S

Benefits
› Wall switch for controlling the fan levels
› Plastic rotary knob

Description • To adjust the fan settings from the living space, the 4-stage switch with LED is used. • The switch is compatible with 70 E, 170 E Plus and 370 Plus central ventilation units, and is supplied with a power cable (1.5 m). • Installation on a surface box.

ZLWZ 4 S

		ZLWZ 4 S
Part number		**234866**

WLAN VRC .1

WLAN VRC .1

Benefits
- WLAN module for central ventilation units
- Convenient control via MyStiebel app
- Quick and easy to install
- Strong WLAN signal for reliable connections

Description • With this module, central ventilation units can be incorporated in an existing WLAN. • All functions can be conveniently controlled from anywhere via the MyStiebel app. • The module is easy to install and the strong WLAN signal ensures a reliable connection.

		WLAN VRC .1
		NEW
Part number		**206611**
Specification		
Installation type		Wall mounted appliance
WLAN		802.11b/g/n/ 2.4 GHz/DHCP
Supply voltage	V	5
Power consumption	W	0,8
Colour		white
Width	mm	135
Height	mm	180
Depth	mm	35
Weight	kg	0.70
Application limit	°C	0 - 45
Storage and transportation temperature	°C	-25 - +55

FMS G4-10 130

Benefits
› Fleece filter mats for replacement
› Filter class ${att.sf001226.value}
› Filter class ISO Coarse > 60 % (G4) (Product: 238923)

Description • The set contains 10 filter mats made of synthetic nonwoven fleece. No chemical binders are added. • The outstanding dust-holding capacity with little pressure drop is achieved through the progressively compressed construction and an optimised nonwoven structure.

FMS G4-10 130/135

		FMS G4-10 130/135
Part number		**238923**
Specification		
Quantity		10
Filter class		ISO Coarse > 60 % (G4)
Application		Ventilation units

FMK M5-2 130

Benefits
› Set with two high quality supply air filters
› Filter class ${att.sf001226.value}
› Filter class ePM10 ≥ 50 % (M5) (Product: 238924)

Description • The set contains two filter cassettes made of synthetic fibre fleece for the supply air. • The low pressure drop is achieved by the large, Z-pleated filter surfaces. • The sturdy frames consist of compressed filter fleece.

FMK M5-2 130/135

		FMK M5-2 130/135
Part number		**238924**
Specification		
Quantity		2
Filter class		ePM10 ≥ 50 % (M5)

FMK F7-2 130

Benefits
- Set with fine filters for ventilation systems
- Integral pull tab for easy replacement
- Filter class ${att.sf001226.value}
- Filter class ePM1 ≥ 50 % (F7) (Product: 238925)

Description • The replacement filter cassettes for supply air are made from unbreakable polyester fibres with a partially progressive structure. They are thermally bonded, temperature-resistant to 100 °C and pleated in a Z-shape. • The sturdy frame is made of moisture-resistant cardboard, with a pull tab integrated on the front.

FMK F7-2 130/135

		FMK F7-2 130/135
Part number		**238925**
Specification		
Quantity		2
Filter class		ePM1 ≥ 50 % (F7)
Application		Ventilation units

FMS G4-10 180

Benefits
- Fleece filter mats for replacement
- Filter class ISO Coarse > 60 % (G4) (Product: 234147)

Description • The set contains 10 filter mats made of synthetic nonwoven fleece. No chemical binders are added. • The outstanding dust-holding capacity with little pressure drop is achieved through the progressively compressed construction and an optimised nonwoven structure.

FMS G4-10 180

		FMS G4-10 180
Part number		**234147**
Specification		
Quantity		10
Filter class		ISO Coarse > 60 % (G4)
Application		Ventilation units

FMK M5-2 180

Benefits
› Set with two high quality supply air filters
› Filter class ePM10 ≥ 50 % (M5) (Product: 234148)

Description • The set contains two filter cassettes made of synthetic fibre fleece for the supply air. • The low pressure drop is achieved by the large, Z-pleated filter surfaces. • The sturdy frames consist of compressed filter fleece.

FMK M5-2 180

		FMK M5-2 180
Part number		**234148**
Specification		
Quantity		2
Filter class		ePM10 ≥ 50 % (M5)
Application		Ventilation units

FMK F7-2 180

Benefits
› Integral pull tab for easy replacement
› Set with fine filters for ventilation systems

Description • The replacement filter cassettes for supply air are made from unbreakable polyester fibres with a partially progressive structure. They are thermally bonded, temperature-resistant to 100 °C and pleated in a Z-shape. • The sturdy frame is made of moisture-resistant cardboard, with a pull tab integrated on the front.

FMK F7-2 180

		FMK F7-2 180
Part number		**234208**
Specification		
Quantity		2
Filter class		ePM1 ≥ 50 % (F7)
Application		Ventilation units

FMS G3

Benefits
- Fleece filter mats for replacement
- Standard delivery: 10 pce
- Filter class ISO Coarse > 45 % (G3) (Product: 222446)

Description • Set of filter mats made of synthetic nonwoven fleece. No chemical binders are added. • The outstanding dust-holding capacity with little pressure drop is achieved through the progressively compressed construction and an optimised nonwoven structure.

FMS G3-10 70

		FMS G3-10 70
Part number		**222446**
Specification		
Quantity		10
Filter class		ISO Coarse > 45 % (G3)
Application		Ventilation units

FMK F7-2 70

Benefits
- Two filter cassettes in set
- Replacement for dirty fresh air filters

Description • The replacement filter cassettes for supply air are made from unbreakable polyester fibres with a partially progressive structure. They are thermally bonded, temperature-resistant to 100 °C and pleated in a Z-shape within a sturdy frame made of moisture-resistant cardboard with a pull tab at the front.

FMK F7-2 70

		FMK F7-2 70
Part number		**227660**
Specification		
Quantity		2
Filter class		ePM1 ≥ 50 % (F7)
Application		Ventilation units

FMS EPMC 65-10 W450/600

Benefits
- G4 filter for LWZ W-450/600 (E), VRC-W 450/600 (E) and TVZ 450/600
- ISO Coarse 65 %
- Fleece filter mats for replacement
- Filter standard to ISO 16890

Description • The set contains 10 filter mats made of synthetic nonwoven fleece. No chemical binders are added. • The outstanding dust-holding capacity with little pressure drop is achieved through the progressively compressed construction and an optimised nonwoven structure.

		FMS EPMC 65-10 W450/600
		NEW
Part number		**206610**
Specification		
Quantity		10
Filter class		ISO Coarse > 60 % (G4)
Application		Ventilation units

FMK EPM1 70-2 W450/600

Benefits
- ISO ePM1 70 %
- Integral pull tab for easy replacement
- Set with fine filters for ventilation systems

Description • The replacement filter cassettes for supply air are made from unbreakable polyester fibres with a partially progressive structure. They are thermally bonded, temperature-resistant to 100 °C and pleated in a Z-shape. • The sturdy frame is made of moisture-resistant cardboard, with a pull tab integrated on the front.

FMK EPM1 55-2 W450/600

		FMK EPM1 55-2 W450/600
		NEW
Part number		**206596**
Specification		
Quantity		2
Filter class		ePM1 ≥ 50 % (F7)
Application		Ventilation units

FMK EPA 12-2 W450/600

Benefits
› ISO EPA 12 filter
› Fine dust filtration up to PM 2.5 and a maximum of 99.5 %

Description: • E12 filter for various ventilation units.

FMK EPA 12-2 W450/600

		FMK EPA 12-2 W450/600
		NEW
Part number		**206597**
Specification		
Quantity		2
Application		Ventilation units

LVE onfloor
Accessories 432
LVS infloor
Accessories 439
LWF system
Accessories 446

LVE RP

Benefits
- Flat flexible air duct made of plastic
- Internal pipe with low installed height
- Suitable for LVE onfloor
- Supplied as a 20 metre roll

Description • The flat and flexible LVE onfloor air duct made of plastic with internal pipe is distinguished by its low installed height.

LVE RP 20

		LVE RP 20
Part number		**231111**
Specification		
Height	mm	52
Width	mm	130
Length	mm	20000

LVE BF

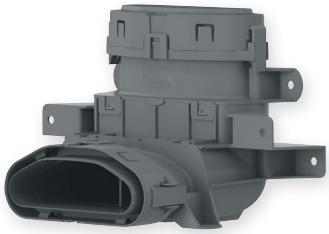
Benefits
- Horizontal bend for the flexible air duct
- Connection on both sides via plug-in sleeves with slide-on clamps
- Suitable for LVE onfloor
- 45° angle (Product: 231121)
- 90° angle (Product: 231122)

Description • Bend for the flat and flexible LVE onfloor air distribution system made of plastic.

LVE BF 45

		LVE BF 45	LVE BF 90
Part number		**231121**	**231122**
Specification			
Height	mm	57	57
Width	mm	225	250
Length	mm	225	250

LVE BH-D



Benefits
- Set of one upward bend and two adaptors
- Universal application possibilities for LVE - onfloor
- Higher air flow rate due to optimised cross-section
- Quick, space saving installation

Description• The LVE 90 degree vertical bend is suitable for the LVE onfloor system. Two adaptors are supplied, which can be turned through 180 degrees. • Low pressure drop and minimal noise thanks to optimised cross-section. • The vertical bend is easy to clean. • The inner rib stiffens the component and separates the air streams. • Ideal for the prefabricated house sector as the compact size of maximum 86 mm enables installation at the factory. The vertical bend can be easily installed in 100 mm walls (timber frame construction). • The ribs on the back ensure secure positioning on the wall. • The vertical bend can be easily adapted to the position of the LVE pipe.

LVE BH 90-D

		LVE BH 90-D
Part number		**206252**
Specification		
Height	mm	157
Width	mm	228

Universal 90 degree vertical bend, 2 adaptors for LVE (Product: 206252)

LVE Ü 180

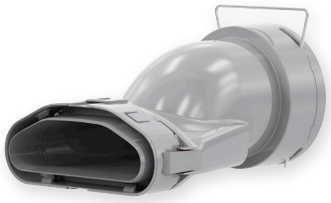
Benefits
- Adaptor for flexible air duct
- 180° change of direction
- Connections designed for inserts at both ends
- Suitable for LVE onfloor

Description • Adaptor for 180° change of position, for the flat and flexible LVE onfloor air distribution system made of plastic.

LVE Ü 180

		LVE Ü 180
Part number		**231120**
Specification		
Height	mm	69
Width	mm	144
Length	mm	64

LVE Ü 90



Benefits
- Connections designed for inserts at both ends
- Suitable for LVE onfloor
- Robust polyethylene adaptor

Description • Plastic adaptor for connecting DN 75/90 LVS pipe to the flat and flexible LVE onfloor air distribution system.

LVE Ü 90

		LVE Ü 90
Part number		**233032**
Specification		
Height	mm	95
Width	mm	144
Length	mm	100

LVE TB

Benefits
- Adaptor bend with rotatable connection adaptors for a wide range of installation situations
- 2 x LVS to 1 x LVE
- Low pressure drop
- Fewer ventilation ducts due to the reduction to one LVE duct

Description • Adaptor bend from 2 x LVS pipe to the flexible LVE – onfloor air distribution system. Saves space and time during installation as the two LVS connections end in one LVE duct. There is no need for a second LVE duct. • The connection adaptors can be rotated 180 degrees to suit almost any installation situation. • The pressure drop is low due to the flow-optimised cross-section.

LVE TB 75

		LVE TB 75
		NEW
Part number		**207077**
Specification		
Height	mm	171
Width	mm	228

LVE ÜB-O

Benefits
- Plastic adaptor bend
- With gasket and locking clip
- Robust polyethylene adaptor
- Connections designed for inserts at both ends
- Suitable for LVE onfloor
- Connection to the screed from above (Product: 235913)
- Connection to the screed from below (Product: 235912)

Description • The adaptor bend from a DN 75/90 LVS pipe to the flexible LVE onfloor air distribution system is made of plastic. The standard delivery includes a gasket and locking clip. • LVS connection for routing the LVE on screed.

LVE ÜB-O

		LVE ÜB-O	LVE ÜB-U
Part number		**235913**	**235912**
Specification			
Height	mm	120	120
Width	mm	144	144

LVE M

Benefits
- Connections designed for inserts at both ends
- Suitable for LVE onfloor
- Set with 5 sleeves

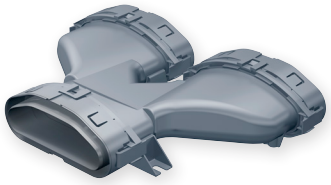
Description • Sleeve for the flat and flexible LVE onfloor air distribution system made of plastic.

LVE M

		LVE M	LVE RA
Part number		**231112**	**231117**
Specification			
Height	mm	55	35
Width	mm	130	
Length	mm	115	130

Push-fit adaptor for moulded parts of the flexible LVE onfloor air distribution system. (Product: 231117)

LVE YS



Benefits
- Suitable for LVE onfloor
- Divides the air flow across two ducts
- Y piece for flexible air duct (Product: 239126)
- Division of the flow across two ducts (Product: 239126)

Description • Y piece made of plastic for the flat and flexible LVE onfloor air distribution system.

LVE YS

		LVE YS
Part number		**239126**
Specification		
Height	mm	57
Width	mm	300
Length	mm	300

LVE A

Benefits
- Set of five connection adaptors
- The adaptors can be rotated 180°

Description • The set contains five connection adaptors for the LVE onfloor system. The adaptor can be rotated 180° to individually fit the LVE duct.

LVE A

		LVE A
Part number		**205366**
Specification		
Height	mm	59
Width	mm	184
Length	mm	92

LVE KF

Benefits
- 10 fixing clips made of zinc-plated steel
- Suitable for LVE onfloor
- Folded edges prevent the duct from slipping sideways
- Duct fixing sets consisting of sturdy brackets (Product: 231113)
- For fixing the flexible air duct on the unfinished concrete floor (Product: 231113)
- Suitable for impact rawl plugs (Product: 231113)

Description • The duct fixing clip consists of sturdy sheet steel brackets. It is used to secure the flexible LVE onfloor air duct to a bare concrete floor and is suitable for impact rawl plugs.

LVE KF

		LVE KF
Part number		**231113**
Specification		
Height	mm	53
Width	mm	25
Length	mm	215

LVE WDA

Benefits
- Individual fixing thanks to the rotatable connection adaptor
- Quick and straightforward installation
- Low flow velocities
- Suitable for high air flow rates

Description • The wall/ceiling diffuser is made from corrosion-resistant, odour-neutral plastic. It is equipped with a removable connection adaptor that makes it possible to connect a flexible LVE onfloor air duct. Since the connection adaptor can be rotated 180°, only one diffuser is required. • The large, aerodynamically optimised cross-section in the moulded part reduces the flow velocity and noise level, so a higher air flow rate can be achieved if required.

LVE WDA 125

		LVE WDA 125
Part number		**205364**
Specification		
Height	mm	385
Width	mm	184
Length	mm	230
Recommended accessories		
Part number		**207073**
Type		LWF SE 125
Description		Silencer element, 4 pce

WDA 125

Benefits
› Set of five wall/ceiling diffusers
› Optimized cross-section for a higher air flow rate

Description • The set comprises five wall/ceiling diffusers made from corrosion-resistant, odour-neutral plastic. With the relevant adaptors, the diffuser can be used for the LVE onfloor and LVS infloor air distribution systems. • The cross-section in the moulded part reduces the flow velocity, and a higher air flow rate can be achieved if required.

LVE-LVS WDA 125

		LVE-LVS WDA 125
Part number		**205368**
Specification		
Height	mm	85
Diameter	mm	125

LVS RP

Benefits
- Flexible pipes made of PE plastic (Product: 235059, 223320)
- Odour-neutral and antistatic (Product: 235059, 223320)
- Hygienically unproblematic (Product: 235059, 223320)

Description • The flexible corrugated plastic LVS pipe has corrugations on the outside and on the inside is smooth, odour-neutral and antistatic.

LVS RP 75-50

		LVS RP 75-50	LVS RP 90-25
Part number		**235059**	**223320**
Specification			
Weight	kg	17	12
Diameter	mm	75	90
Recommended accessories			
Part number		**207074**	
Type		LVS RS 75	
Description		Pipe cutter for LVS pipe DN 75	

LVS RS

Benefits
- Pipe cutter for LVS pipe DN 75
- Replaceable blade
- Fast cutting with minimal risk of injury

Description • Handy pipe cutter with replaceable blade for LVS pipes DN 75 • The blade can be replaced with a standard cutter blade. • This handy tool allows LVS pipes to be cut quickly and cleanly. Risk of injury is reduced.

LVS RS 75

		LVS RS 75
		NEW
Part number		**207074**
Specification		
Height	mm	16
Width	mm	90
Depth	mm	145

LVS VTS

Benefits
- Excellent sound attenuation at low frequencies
- Distributor plate and inspection cover can be interchanged
- Can be installed on the wall, ceiling or in a stud frame
- Air volumes can be adjusted at the distributor

Description • The sound insulated air distributor for the flexible LVS infloor and LVE onfloor air distribution systems is mounted on the wall or ceiling.

LVS VTS 6

		LVS VTS 6	LVS VTS 9
Part number		**201456**	**234493**
Specification			
Height	mm	150	250
Width	mm	500	500
Length	mm	640	1165
Insertion loss at 63 Hz	dB	3	5
Insertion loss at 125 Hz	dB	9	10
Insertion loss at 250 Hz	dB	15	10
Insertion loss at 500 Hz	dB	30	18
Insertion loss at 1000 Hz	dB	28	36
Insertion loss at 2000 Hz	dB	28	32
Insertion loss at 4000 Hz	dB	20	23
Insertion loss at 8000 Hz	dB	19	16
Required accessories			
Part number			**236421**
Type			ZLVS O 75-10
Description			O-ring set, 10 pce.

VT 14/16

Benefits
- Compact air distributor with multiple diffusers
- Good sound insulation
- Insulation material largely resistant to fungi and bacteria
- Hygiene certificate for the food industry

Description • The compact ventilation air distributors have several diffusers. Thanks to the special design, the air is distributed evenly so that uniform parameters are ensured for all diffusers, resulting in balanced air distribution. • The sound insulation of the air distributors reduces noise development. The insulating material has antibacterial and antifungal properties which counteract the growth of fungi and bacteria. • Hygiene certificates are available for the air distributors, which allow them to be used in the food industry.

LVS VT 14

		LVS VT 14
Part number		**205558**

next page >

		LVS VT 14
Specification		
Height	mm	235
Width	mm	750
Length	mm	305

14 diffusers (Product: 205558)

ZLVS VTÜ

ZLVS VTÜ 75-90

Benefits
- ZLVS air distribution system accessories
- Zinc-plated sheet steel for corrosion protection

Description • Adaptor from DN 75 to DN 90 LVS.

		ZLVS VTÜ 75-90
Part number		**234494**
Specification		
Height	mm	92
Width	mm	92
Length	mm	150
Required accessories		
Part number		**236421**
Type		ZLVS O 75-10
Description		O-ring set, 10 pce.
Part number		**236422**
Type		ZLVS O 90-10
Description		O-ring set, 10 pce.

LVS WDA

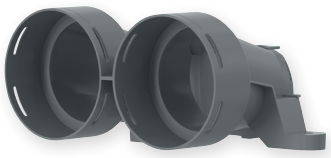
Benefits
- Individual fixing thanks to the rotatable connection adaptor
- Quick and straightforward installation
- Low flow velocities
- Suitable for high air flow rates

Description • The wall/ceiling diffuser is made from corrosion-resistant, odour-neutral plastic. It is equipped with a removable connection adaptor that can be rotated 180°. • Two DN 75 connectors are provided; the corresponding LVS pipes are fixed in the adaptor with two locking pins each. • The size of the outlet connector is DN 125. • The large cross-section in the moulded part permits lower flow velocities and makes a higher air flow rate possible. • Standard delivery includes a DN 75 dummy cover, a DN 125 dummy cover and four locking pins.

LVS WDA 125-2-75

		LVS WDA 125-2-75
Part number		**205367**
Specification		
Height	mm	385
Width	mm	228
Length	mm	270.8
Recommended accessories		
Part number		**207073**
Type		LWF SE 125
Description		Silencer element, 4 pce

LVS A



Benefits
- Connection adaptor for 2 x DN 75 to the LVS infloor system
- Includes locking pins and dummy cover

Description • The connection adaptor for the LVS infloor system provides two connections for LVS pipe DN 75. • The pipes are fixed with two locking pins each. • The adaptor has a centre fixing point and side fixing tabs. • Standard delivery includes a dummy cover and four locking pins.

LVS A 2-75

		LVS A 2-75
Part number		**205365**
Specification		
Height	mm	79
Width	mm	228
Length	mm	113.7

LVS M

LVS M 75

Benefits
- Suitable for LVS infloor
- Plastic sleeve, connection for inserts at both ends
- Standard delivery: 5 pce

Description • Sleeve for the flexible LVS infloor air distribution system.

		LVS M 75
Part number		**224897**
Specification		
Length	mm	154
Diameter	mm	75

ZLVS O

ZLVS O 75-10

Benefits
- For VTS distributors and LTS diverters
- Set with 10 seal rings
- O-rings for sealing

Description • The seal ring set contains O-rings for the LVS pipe set, which can be used to seal the connections at the VTS distributor and the LVS diverter.

		ZLVS O 75-10	ZLVS O 90-10
Part number		**236421**	**236422**

LVS DA

Benefits
- Suitable for LVS infloor
- Pipe connection DN 75
- Corrosion protection thanks to zinc-plated steel

Description • Diverter to DN 100 for the flexible LVS infloor air distribution system.

LVS DA 75-125-2

		LVS DA 75-125-2
Part number		**236423**
Specification		
Height	mm	445
Width	mm	230
Length	mm	250

LVS-MSV-8-160

Benefits
- Air distributor, 8-way
- Connection DN 160
- Robust plastic

Description • The air distributor for the flexible LVS air distribution system is suitable for installation in a concrete ceiling.

Air distributor box with or without filigree frame, 8-way, connection Ø 160 mm

LVS-MSV-SB

		LVS-MSV-SB
Part number		**232117**
Specification		
Height	mm	130
Width	mm	270
Length	mm	330

LVS-MSV-12-160

Benefits
- Connection DN 160
- Air distributor, 12-way
- Robust plastic

Description • The air distributor for the flexible LVS air distribution system is suitable for installation in a concrete ceiling.

Air distributor box with or without filigree frame, 12-way, connection ⌀ 160 mm

LVS-MSV-SBA

		LVS-MSV-SBA
Part number		**232118**
Specification		
Height	mm	130
Width	mm	270
Length	mm	540

LVS AS

Benefits
- Set with 5 connectors
- Robust plastic
- Suitable for LVS infloor

Description • Connector for the flexible LVS air distribution system.

LVS AS 75

		LVS AS 75
Part number		**223318**
Specification		
Height	mm	98
Width	mm	98
Length	mm	53
Diameter	mm	75

LWF T

LWF T 160 - 160

Benefits
- Complete with 3 rolling ring seals
- Zinc-plated sheet steel for corrosion protection
- Tee for LWF air distribution system

Description • Tee for folded spiral-seam tubes made from zinc-plated sheet steel with rolling ring sealing system.

		LWF T 160 - 160
Part number		**159323**
Specification		
Installed length	mm	229
Diameter	mm	160

LWF M 100

LWF M 125

Benefits
- Suitable for LWF air distribution system
- Zinc-plated sheet steel for corrosion protection
- Robust version

Description • Connector for folded spiral-seam tubes made from zinc-plated sheet steel with rolling ring sealing system.

		LWF M 125
Part number		**159299**
Specification		
Diameter	mm	125

LWF N

LWF N 160

Benefits
- Pipe nipple for LWF air distribution system
- Zinc-plated sheet steel for corrosion protection
- Supplied with 2 rolling ring seals

Description • The push-fit connector for folded spiral-seam tubes made from zinc-plated sheet steel is equipped with a rolling ring sealing system.

		LWF N 160
Part number		**159320**
Specification		
Installed length	mm	8
Diameter	mm	160

LWF RS M/N

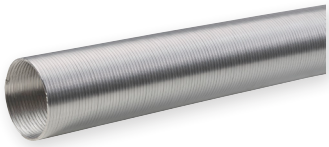
LWF RS 160 M - 125 N

Benefits
- Reduced for folded spiral-seam tubes in the LWF air distribution system
- Zinc-plated sheet steel for corrosion protection
- Lip seal included in delivery

Description • The reducer for folded spiral-seam tubes of the LWF air distribution system is made of zinc-plated sheet steel. • The reduced end is a push-fit connector with lip seal; the other end is a socket end.

		LWF RS 160 M - 125 N
		NEW
Part number		**207509**
Specification		
Installed length	mm	66
Diameter	mm	160
Reducer diameter	mm	125

LWF F 125 - 5



Benefits
- Two-layered, flexible aluminium tube
- Length: 5 metres
- Temperature resistant to 200 degrees Celsius in continuous operation

Description • The flexible aluminium tube to DIN 24146 is folded in two layers and suitable for connecting the appliance to the pipework.

LWF F 125 - 5

		LWF F 125 - 5	LWF F 160 - 5
Part number		**159334**	**159332**
Specification			
Diameter	mm	125	160

LWF DR

Benefits
- Expanded polypropylene (EPP)
- Pipe length: 100 cm
- Pipe material prevents condensate forming

Description • The thermally insulated pipe system for outdoor air and exhaust air ducting is made of polypropylene foam – a vapour diffusion-proof, very light and self-supporting material.

LWF DR 125-1 EPP

		LWF DR 125-1 EPP	LWF DR 160-1 EPP
Part number		**239231**	**239232**
Specification			
Length	mm	1000	1000
Diameter	mm	125	160

LWF DRB

LWF DRB 125-45 EPP

Benefits
- Lightweight rigid foam duct
- Expanded polypropylene (EPP)
- Seamless finish

Description • The thermally insulated pipe system for outdoor air and exhaust air ducting is made of polyethylene foam – a vapour diffusion-proof, very light and self-supporting material.

		LWF DRB 125-45 EPP	LWF DRB 125-90 EPP	LWF DRB 160-45 EPP	LWF DRB 160-90 EPP
Part number		**239234**	**239233**	**239236**	**239235**
Specification					
Bend radius		45	90	45	90
Material		Foam	Foam	Foam	Foam

LWF DRM

LWF DRM 125 EPP

Description • Pipe sleeve made of EPP for the sound insulated and thermally insulated rigid pipework, with flange collar push-fit connector.

		LWF DRM 125 EPP	LWF DRM 160 EPP
Part number		**239237**	**239238**
Specification			
Length	mm	85	85
Nominal diameter	mm	125	160

LWF S

Benefits
› Silencer for LWF air distribution system
› Effective sound insulation

Description • The silencer consists of an external pipe, a perforated internal pipe and two connection ends sized for nipple connectors. • The space is filled with sound-absorbing insulation material, with a fibreglass fleece between the internal pipe and the insulation to protect the air stream.

LWF S 160 - 0,9

		LWF S 160 - 0,9
Part number		**159346**
Specification		
Length	m	0.9
Nominal diameter	mm	160
External diameter	mm	280

Silencer element made from foam, 4 pce per pack (Product: 159346)

LWF SK

Benefits
› Excellent sound attenuation at low frequencies

Description • The splitter silencer consists of an external pipe, a perforated internal pipe, a baffle and two connection ends with double lip gasket. It reduces the sound levels of integral systems and air source heat pumps at the external wall grille. • The space is filled with sound-absorbing insulation material. A fibreglass fleece between the internal pipe and insulation prevents any contact between the insulating material and the air stream.

LWF SK 315 - 0,6

		LWF SK 315 - 0,6
Part number		**202933**
Specification		
Nominal diameter	mm	315
External diameter	mm	515

Splitter silencer, comprising an external pipe, a perforated internal pipe, a baffle and two connection ends with double lip seals. Suitable for use in the exhaust air of the integral systems and air/water heat pump to reduce the sound values at the outer grille. The intermediate space is filled with noise-absorbing material. A glass fibre fleece between the internal pipe and insulation prevents any contact between the insulating material and the air stream. (Product: 202933)
Silencer with baffle (Product: 202933)

LWF SE

Benefits
› Flow rate and sound attenuation can be individually adjusted
› Set with 4 silencers

Description • The silencer element for installation in the folded spiral-seam tube reduces airborne sound. • The element is made from fire-resistant and mould-resistant foam. • Both the flow rate and sound attenuation can be varied by the number of flow apertures.

LWF SE 125

		LWF SE 125
		NEW
Part number		**207073**

Silencer element DN 125 made of foam, 4 pce per pack (Product: 207073)

LWF LB

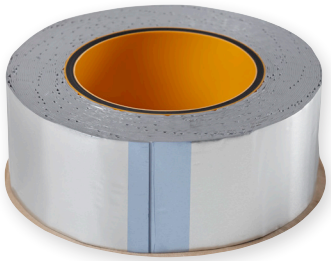
Benefits
› Perforated tape made of zinc-plated steel
› Width: 16 mm
› Length: 10 metres

Description • Perforated tape for securing the air distribution system.

LWF LB 10m

		LWF LB 10m
Part number		**159348**
Specification		
Width	mm	16
Length	m	10

LWF KB



Benefits
- Grey butyl tape with high adhesive strength for sealing air duct systems
- Aluminium backed with protective foil
- 10 m per roll

Description • High quality butyl adhesive tape is used to seal joints in air duct systems. It is distinguished by its high adhesive strength.

LWF KB 10

		LWF KB 10
Part number		**227948**
Specification		
Width	mm	50
Length	m	10

LWF AVM

Benefits
- Round supply air vent made of white powder coated sheet steel
- Adjustable air flow rate
- Adjustable outlet section
- Easy installation

Description • The round and elegantly shaped valve is suitable for central extract air systems. • Simple installation in ceilings or walls thanks to fixing springs and supplied mounting bracket. • The air flow rate is set easily and precisely using the rotating front panel. • Durable, robust design made of powder coated, zinc-plated sheet steel.

LWF AVM 125

		LWF AVM 125
Part number		**227924**
Specification		
Max. air flow rate	m³/h	70
Connection diameter	mm	125
Air flow rate adjustable		•
Material		Steel

LWF ZVM

Benefits
- Round supply air vent made of white powder coated sheet steel
- Adjustable air flow rate
- Adjustable outlet section
- Easy installation

Description • The round and elegantly shaped valve is suitable for central supply air systems. • Simple installation in ceilings or walls thanks to fixing springs and supplied mounting bracket. • The air flow rate is set easily and precisely using the rotating front panel. The air flow can be directed using the integrated air outlet segment. • Durable, robust design made of powder coated, zinc-plated sheet steel.

LWF ZVM 125

		LWF ZVM 125
Part number		**230163**
Specification		
Max. air flow rate	m³/h	40
Connection diameter	mm	125
Air flow rate adjustable		•
Material		Sheet steel

KWG 125-160

Benefits
- Sheet steel intake/discharge grille
- Corrosion-resistant zinc plating and powder coating in silver grey
- Delivery includes pre-plumbing jig as drilling template

Description • The combined intake/discharge grille for the outdoor air and exhaust air ducting of central ventilation units with heat recovery is mounted on the external wall. The connections for exhaust air and outdoor air are arranged next to each other. • The grille is made of powder coated, zinc-plated sheet steel.

KWG 125

		KWG 125
Part number		**239139**
Specification		
Max. air flow rate	m³/h	200
Connection diameter	mm	125

WG

WG 200

Description • The stainless steel wall outlet is designed for the connection of a central ventilation unit.

		WG 200	WG 160
Part number		**205560**	**205559**
Specification			
Height	mm	253	192
Width	mm	253	192
Length	mm	62	62

Decentralised ventilation in residential buildings 457

Accessories for decentralised ventilation in residential buildings 465

Decentralised ventilation in non-residential buildings 471

Accessories for decentralised ventilation in non-residential buildings 505

Application areas

Air flow rate

	m³/h	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
VLR 70 S Trend EN																																					
VLR 70 L Trend EN																																					
VLR 70 L Trend EU																																					

	m³/h	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
LA 100 A																																					
LA 100 U																																					
LA 100 UB																																					

Decentralised ventilation in residential buildings

Supply and extract air with heat recovery
VLR 70 S/L Trend 458
Extract air without heat recovery
LA 100 460
Accessories 461

VLR 70 S/L Trend

VLR 70 S Trend EN

Benefits
- Decentralised ventilation unit with heat recovery for new build and modernisation
- Rapid, hygienic cleaning thanks to aluminium heat exchanger
- Very good filter performance due to filters on the inside and outside
- No condensate run marks on the wall face
- Quick, tool-free filter change and tool-free visual monitoring of the heat exchanger, due to compact design of fan unit

Application • This decentralised ventilation unit with heat recovery is used for ventilating apartments and small commercial properties.

Convenience features • Contemporary design with separate programming unit. • Thanks to the axial fan that can overcome back-pressure, use in locations exposed to the wind is possible. • The appliance is equipped with an efficient heat exchanger made of aluminium. • The external panel is watertight against heavy rain; it is made of stainless steel and powder coated. The internal panel is made of plastic. • Straightforward filter replacement with easy-to-remove fan unit. Fine dust filters are available as accessories.

Efficiency • EC fan ensures efficient operation.

Installation • The unit is installed in a round or square wall outlet. • The easily accessible mains connection is located on the inside of the fan unit.

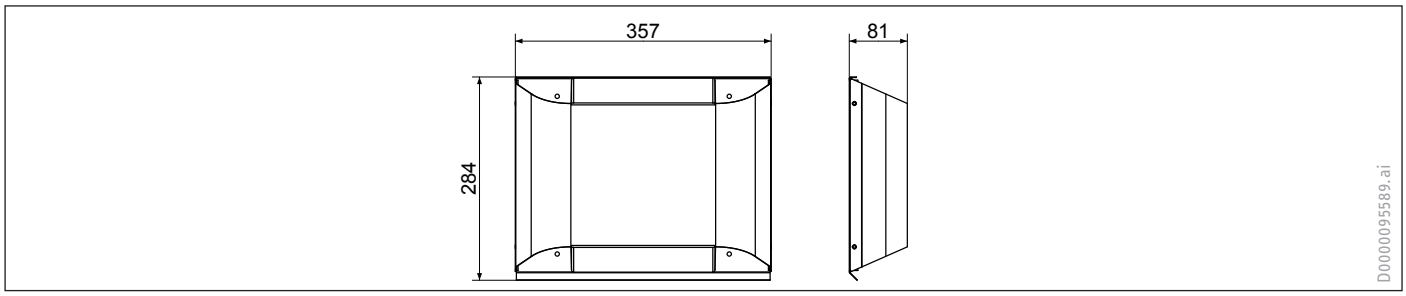
		VLR 70 S Trend EN	VLR 70 L Trend EN	VLR 70 L Trend EU
Part number		**200002**	**201458**	**203133**
Specification				
Sound power level LW total relative to air flow rate	dB(A)	35 (20 m³/h)	35 (20 m³/h)	36 (20 m³/h)
Weight	kg	5.20	5.20	5.20
IP rating		IP21	IP21	IP21
Min. outlet aperture	mm	Ø 200, 185x185	Ø 200, 185x185	Ø 200, 185x185
Air flow rate	m³/h	20/30/40/49/70	20/30/40/49/70	20/30/40/49/70
Rated voltage	V	24	24	24
Energy efficiency class, moderate climates, central demand-dependent control				A+
Height	mm	285	285	285
Width	mm	360	360	360
Depth	mm	590	780	780
Required accessories				
Part number		**239570**	**239570**	**239570**
Type		VLR 70-2 CU	VLR 70-2 CU	VLR 70-2 CU
Description		Control set for VLR 70	Control set for VLR 70	Control set for VLR 70
Part number		**239571**	**239571**	**239571**
Type		VLR 70-4 CU	VLR 70-4 CU	VLR 70-4 CU
Description		Control set for VLR 70	Control set for VLR 70	Control set for VLR 70
Part number		**239572**	**239572**	**239572**
Type		VLR 70-8 CU	VLR 70-8 CU	VLR 70-8 CU
Description		Control set for VLR 70	Control set for VLR 70	Control set for VLR 70
Recommended accessories				
Part number		**237126**	**237126**	
Type		LTM TL HUMIDITY	LTM TL HUMIDITY	
Description		Humidity sensor	Humidity sensor	
Maintenance				
Part number		**239562**	**239562**	**239562**
Type		SP VLR 70 RF COARSE 30 G2-4	SP VLR 70 RF COARSE 30 G2-4	SP VLR 70 RF COARSE 30 G2-4
Description		Filter for VLR 70	Filter for VLR 70	Filter for VLR 70

next page >

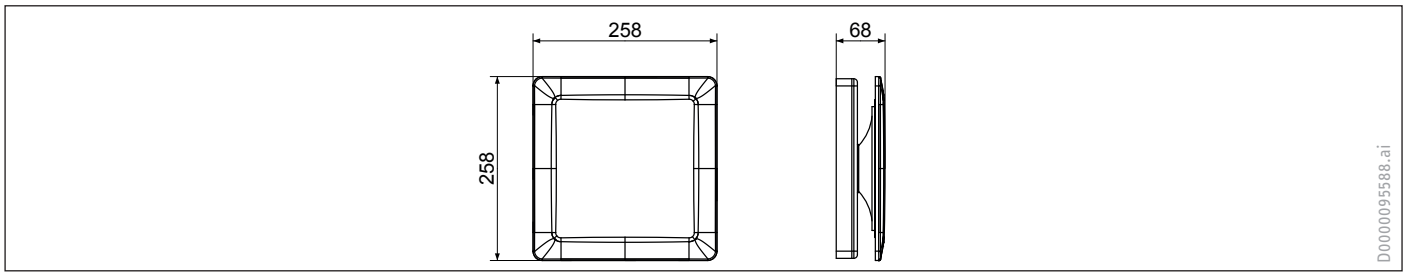
		VLR 70 S Trend EN	VLR 70 L Trend EN	VLR 70 L Trend EU
Part number		**239575**	**239575**	**239575**
Type		SP VLR 70 RF COARSE 60 G4-4	SP VLR 70 RF COARSE 60 G4-4	SP VLR 70 RF COARSE 60 G4-4
Description		Filter for VLR 70	Filter for VLR 70	Filter for VLR 70
Part number		**239576**	**239576**	**239576**
Type		SP VLR 70 RF EPM10 50 M5-4	SP VLR 70 RF EPM10 50 M5-4	SP VLR 70 RF EPM10 50 M5-4
Description		Filter for VLR 70	Filter for VLR 70	Filter for VLR 70
Part number		**239577**	**239577**	**239577**
Type		SP VLR 70 RF EPM1 50 F7-4	SP VLR 70 RF EPM1 50 F7-4	SP VLR 70 RF EPM1 50 F7-4
Description		Filter for VLR 70	Filter for VLR 70	Filter for VLR 70

Blower unit, inner hood, outer hood (Product: 200002)
Only for sales outside the EU
Decentralised ventilation unit
VLR 70 L Trend EU with heat recovery (Product: 203133)

VLR 70 L Trend EU



VLR 70 L Trend EU



Extract air without heat recovery

LA 100

LA 100 A

Benefits

- Decentralised extractor for rooms with and without windows
- For use in traditional extract air areas, such as the bathroom, kitchen and WC
- Modernisation solution that is easy to install
- Ideal for combination with our decentralised ventilation units
- Energy efficient EC fan for low noise pollution at high air flow rates
- Quiet operation (Product: 205771, 205772, 205773)
- Fan unit for single ventilation units to DIN 18017-3 (Product: 205771, 205772, 205773)
- Fan unit for surface mounting (Product: 205771)
- Fan unit for flush mounting (Product: 205772, 205773)

Application • This fan unit for extractors ventilates rooms with and without external windows.

Convenience features • The casing, internal panel and filter holder are made from high quality white plastic. All appliances are equipped with a start delay and run-on time. If required, this can be extended by a humidity sensor. Subsequent extension of the control module is also possible in its installed state.

Efficiency • The fan unit has a very energy efficient and quiet fan motor.

Installation • Depending on the selected version, the appliances are suitable for installation in walls and ceilings or surface mounting. The electrical connection of the fan unit is easily accessible.

		LA 100 A	LA 100 U	LA 100 UB
Part number		**205771**	**205772**	**205773**
Specification				
Type of ventilation		Ventilation	Ventilation	Ventilation
Filter class		G3	G3	G3
Filter class		ePM10 ≥ 50 % (M5) | ISO Coarse > 45 % (G3)	ePM10 ≥ 50 % (M5) | ISO Coarse > 45 % (G3)	ePM10 ≥ 50 % (M5) | ISO Coarse > 45 % (G3)
Max. power consumption	W	15.3	15.3	15.3
Power consumption at 30 m³/h	W	2.2	2.2	2.2
Power consumption at 60 m³/h	W	4.5	4.5	4.5
Power consumption at max. flow rate	W	15.3	15.3	15.3
Sound power level LWA	dB(A)	47	47	47
Sound power level LWA at 60 m³/h	dB(A)	40	40	40
Sound power level LWA at 30 m³/h	dB(A)	33	33	33
Weight	kg	2.30	2.30	2.30
IP rating		IP X5	IP X5	IP X5
Max. air flow rate	m³/h	90	100	100
Recommended accessories				
Part number		**205830**	**205830**	**205830**
Type		ZLA 100-H	ZLA 100-H	ZLA 100-H
Description		Control module with humidity control	Control module with humidity control	Control module with humidity control
Part number		**231104**	**231104**	**231104**
Type		LWF W 100 VA - 60	LWF W 100 VA - 60	LWF W 100 VA - 60
Description		External wall outlet	External wall outlet	External wall outlet
Maintenance				
Part number		**201455**	**201455**	**201455**
Type		FMS G3-5 LA 60	FMS G3-5 LA 60	FMS G3-5 LA 60
Description		Filter mat set for extract air fan	Filter mat set for extract air fan	Filter mat set for extract air fan

ZLA100-H

Benefits
› Demand-regulated control of the fan based on the air humidity

Description • Humidity sensor for extractors LA 100 A / U / UB

ZLA 100-H

		ZLA 100-H
Part number		**205830**
Specification		
Power supply		1/N ~ 230 V 50 Hz
Width	mm	115
Height	mm	20
Depth	mm	170

LA 60/100 G-U

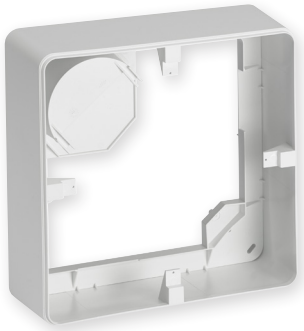
Benefits
› Optionally as standard or fire protection versions
› Installation accessory for decentralised ventilation unit

Description • Flush-mounted enclosure (LA 100 G-U) or flush-mounted enclosure with fire protection (LA 100 G-UB) for the installation of extractors.

LA 100 G-U

		LA 100 G-U	LA 100 G-UB
Part number		**205878**	**206247**
Specification			
Height	mm	280	255
Width	mm	295	255
Depth	mm	74	85

LA 100 G



Benefits
- Fan unit for surface mounting
- Fan unit for single ventilation units to DIN 18017-3
- Extremely quiet operation

Description • Surface-mounted enclosure for extractor LA 100 A.

LA 100 G-A

		LA 100 G-A
Part number		**205906**
Specification		
Height	mm	270
Width	mm	270
Depth	mm	136

LA 100 VE

Benefits
- Fan unit for flush mounting
- Fan unit for single ventilation units to DIN 18017-3
- Extremely quiet operation

Description • Fan unit for extractors LA 100 A / U / UB

LA 100 VE

		LA 100 VE
Part number		**205907**
Specification		
Max. power consumption	W	15.3
Height	mm	260
Width	mm	260
Depth	mm	50
Power supply		1/N 230 V 50 Hz
Air flow rate	m³/h	20/30/40/50/60/100

LWF W 100 VA - 60

Benefits
- Stainless steel with spherical protective cover
- Wall outlet DN 100
- Weather resistant

Description • Wall outlet for decentralised ventilation units.

LWF W 100 VA - 60

		LWF W 100 VA - 60
Part number		**231104**

FMS LA 60

Benefits
- High performance filters for ventilation systems
- Filter class ${att.sf001226.value}
- Filter class ISO Coarse > 45 % (G3) (Product: 201455)

Description • Set with 5 filter mats for extract air fan LA 60.

FMS G3-5 LA 60

		FMS G3-5 LA 60
Part number		**201455**
Specification		
Quantity		5
Filter class		ISO Coarse > 45 % (G3)
Application		Ventilation units

Accessories for controllers
Accessories 466
Filter
Accessories 468

Accessories for controllers

VLR 70-2/4/8 CU

VLR 70-2 CU

Benefits
- Matched accessories for VLR 70
- Simple to control via the ergonomic programming unit
- Basic module including power supply unit and flush box (Product: 239570)
- Number of fans per control unit: max. 2 (Product: 239570)
- Number of fans per control unit: max. 4 (Product: 239571)
- Expansion set for controlling additional fan units (Product: 239571, 239572)
- Number of fans per control unit: max. 8 (Product: 239572)

Description • The control set comprises control unit, power supply unit and programming unit for controlling the ventilation units. • An LED on the control unit reminds the user to clean or replace the filter. These signals are issued according to the operating time. • The programming unit is installed in the supplied flush box. • The power supply unit is designed for top hat rail mounting.

		VLR 70-2 CU	VLR 70-4 CU	VLR 70-8 CU
Part number		**239570**	**239571**	**239572**
Specification				
Number of fans per control unit		max. 2	max. 4	max. 8
Power supply		1/N 100-240 V 50/60 Hz	1/N 100-240 V 50/60 Hz	1/N 100-240 V 50/60 Hz
Width	mm	80		
Height	mm	80		
Depth	mm	9		

User interface, control module, power supply, control panel with frame
User interface, control module, power supply, frame (Product: 239571, 239572)

TL HDY

LTM TL HUMIDITY

Benefits
- Suitable for connection to building automation system

Description • Humidity sensor for humidity-controlled operation in two different stages.

		LTM TL HUMIDITY
Part number		**237126**
Specification		
Version		Room sensor
Measurement accuracy	% rF	5
Setting range, relative humidity	%	30-90
Measurement deviation per year	% rF	-1,5
Switching differential	% rF	6
Width	mm	76
Height	mm	76
Depth	mm	34

TL/DEZ MNT

LTM dezent APD BT

Description • Installation accessories for decentralised ventilation units

		LTM dezent APD BT
Part number		**237644**
Specification		
Height	mm	80
Width	mm	80
Depth	mm	37

SP VLR 70 RF

Benefits
- Matched accessories for VLR 70
- Different filter classes available
- 4 Filter for the Filter class G2 (Product: 239562)
- 4 Filter for the Filter class F7 (Product: 239577)

Description • Filter for VLR 70

SP VLR 70 RF COARSE 30 G2-4

		SP VLR 70 RF COARSE 30 G2-4	SP VLR 70 RF EPM1 50 F7-4
Part number		**239562**	**239577**
Specification			
Quantity		4	4
Filter class		ISO Coarse > 30 % (G2)	ePM1 ≥ 50 % (F7)
Application			Ventilation units

Includes four G2 filters
Includes four F7 filters (Product: 239577)

SP VLR 70 RF COARSE 60 G4-4

Benefits
- Set with four filters
- Filter class G4

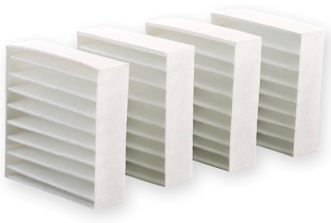
Description • Filter for VLR 70

SP VLR 70 RF COARSE 60 G4-4

		SP VLR 70 RF COARSE 60 G4-4
Part number		**239575**
Specification		
Quantity		4
Filter class		ISO Coarse > 60 % (G4)

Includes four G4 filters (Product: 239575)

SP VLR 70 RF EPM10 50 M5-4



Benefits
› Filter class M5
› Set with four filters

Description • Filter for VLR 70

SP VLR 70 RF EPM10 50 M5-4

		SP VLR 70 RF EPM10 50 M5-4
Part number		**239576**
Specification		
Quantity		4
Filter class		ePM10 ≥ 50 % (M5)

Decentralised ventilation in non-residential buildings

Supply and extract air with heat recovery

VRL-C 870 G Premium	472
VRL-C 870 G Trend	476
VRL-C 870 D Premium	480
VRL-C 870 D Trend	484
VRL-C 300 G Premium	488
VRL-C 300 G Trend	492
VRL-C 300 D Premium	496
VRL-C 300 D Trend	500

VRL-C 870 G Premium

VRL-C 870 G Premium

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- The supply and discharge air grilles can be adjusted to optimise air flow
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as classrooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille diffusers on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or flue gas through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BACnet, Modbus or LON interface (accessories). • The integral PCB enables easy integration of additional functions, such as smoke detectors, intermittent ventilation, minimum ventilation, external OFF and control of a hydraulic reheating coil. • With the integral reheating coil, the supply air temperature can be raised to a comfortable level. • The intelligent preheating control permanently monitors temperature and humidity levels in the appliance, reducing the demand for electrical energy to a minimum and lowering the connected load.

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. • It can be installed at various points on the ceiling of the room. • The supply air grille with adjustable air flow direction is located on the front of the appliance. • The extract air is sucked in through a grille on the right of the narrow side.

Efficiency • The combination of energy saving EC fans, intelligent control and other sensors ensures efficient operation.

		VRL-C 870 G Premium
Part number		**204132**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	147
Max. power consumption, fan	W	329
Max. power consumption	W	1,750
Power consumption, preheating coil	W	400
Power consumption, reheating coil	W	1,000
Height	mm	507
Width	mm	902
Length	mm	1,688
Air connection diameter	mm	315
Weight	kg	140

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		VRL-C 870 G Premium
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE
Frequency	Hz	50
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	300-870
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	600
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 1

Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237629**
Type		LTM dezent BA VA 410 B
Description		External cover
Part number		**237633**
Type		LTM dezent BA VA 410 W
Description		External cover
Part number		**237672**
Type		LTM dezent 600/800 Z-PSS
Description		Mounting system for decentralised ventilation unit
Part number		**237674**
Type		LTM dezent RWA
Description		Mounting system for decentralised ventilation unit

Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237634**
Type		LTM dezent ULB-90
Description		Mounting system for decentralised ventilation unit
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units

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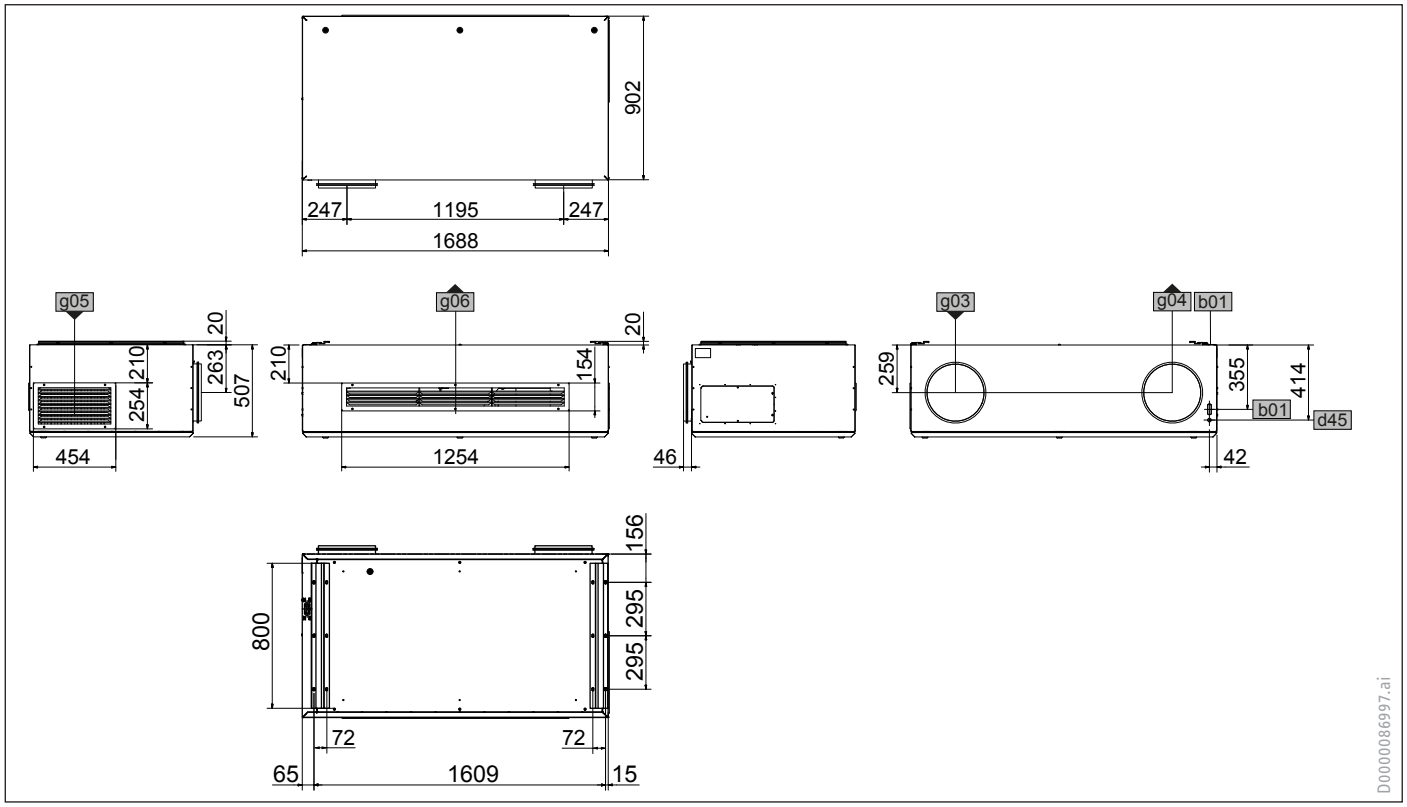
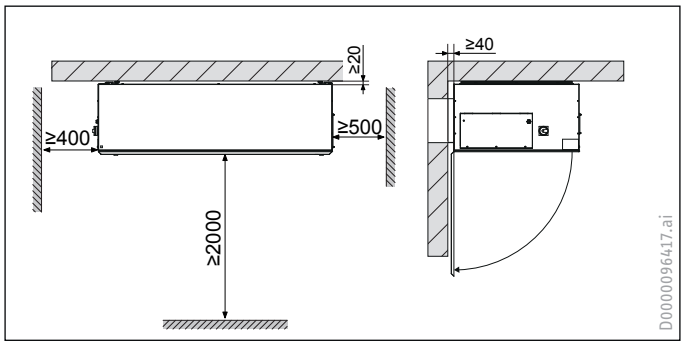
		VRL-C 870 G Premium
Maintenance		
Part number		**206202**
Type		FMK M5-2 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206203**
Type		FMK M5-10 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206204**
Type		FMK F7-2 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206205**
Type		FMK F7-10 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**237668**
Type		LTM dezent FMS F9-1
Description		Filter mat set for decentralised ventilation unit



		VRL-C 870 G Premium
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	315
g04 Exhaust air - diameter	mm	315
g05 Extract air		•
g06 Supply air		•

Minimum clearance diagram



VRL-C 870 G Trend

VRL-C 870 G Trend

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- The supply and discharge air grilles can be adjusted to optimise air flow
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as classrooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille diffusers on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. The temperature-dependent bypass automatically circumvents heat recovery when necessary. All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • To prevent uncontrolled air flow when the system is in standby, it is equipped with motorised outdoor air and exhaust air dampers. • In the case of fire or loss of power, the spring-loaded outdoor and exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances can be connected to a higher ranking building management system via BACnet, Modbus or LON interface (accessories).

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. • The direction of the air flow is determined by the adjustable supply air grille on the front of the appliance. • The extract air is sucked in through the extract air grille on the right of the narrow side.

Efficiency • The combination of energy saving EC fans, intelligent control and other sensors ensures efficient operation.

		VRL-C 870 G Trend
Part number		**204133**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	147
Max. power consumption, fan	W	329
Max. power consumption	W	1,850
Power consumption, preheating coil	W	1,500
Height	mm	507
Width	mm	902
Length	mm	1,688
Air connection diameter	mm	315
Weight	kg	140
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE
Frequency	Hz	50

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		VRL-C 870 G Trend
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	300-870
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	610
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 1
Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237629**
Type		LTM dezent BA VA 410 B
Description		External cover
Part number		**237633**
Type		LTM dezent BA VA 410 W
Description		External cover
Part number		**237672**
Type		LTM dezent 600/800 Z-PSS
Description		Mounting system for decentralised ventilation unit
Part number		**237674**
Type		LTM dezent RWA
Description		Mounting system for decentralised ventilation unit
Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units
Maintenance		
Part number		**206202**
Type		FMK M5-2 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206203**
Type		FMK M5-10 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit

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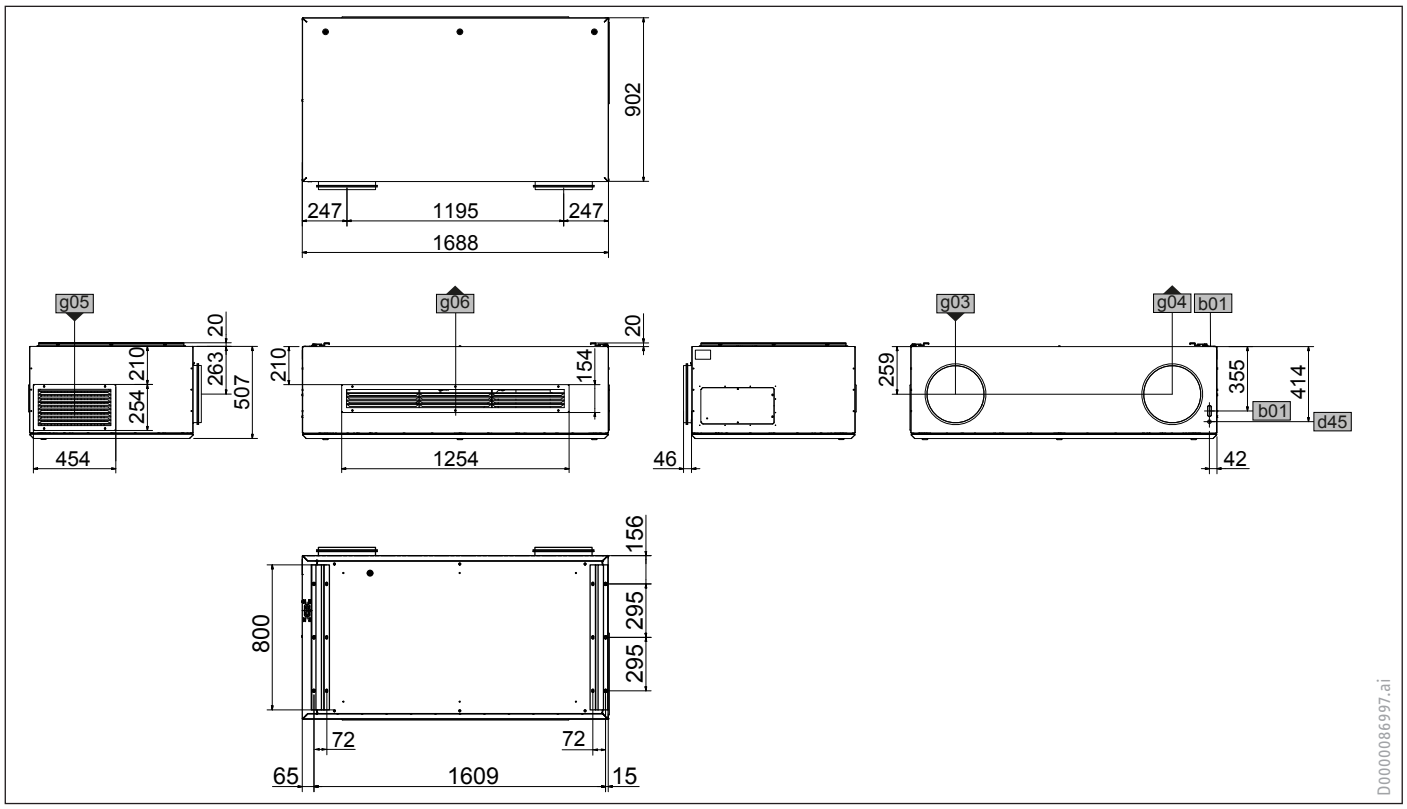
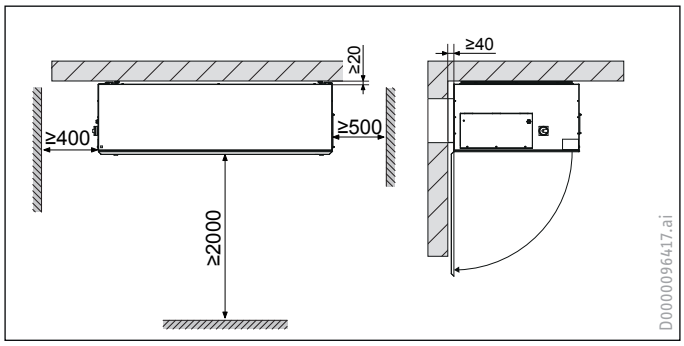
		VRL-C 870 G Trend
Part number		**206204**
Type		FMK F7-2 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206205**
Type		FMK F7-10 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**237668**
Type		LTM dezent FMS F9-1
Description		Filter mat set for decentralised ventilation unit

Availability on request



		VRL-C 870 G Trend
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	315
g04 Exhaust air - diameter	mm	315
g05 Extract air		•
g06 Supply air		•

Minimum clearance diagram



VRL-C 870 D Premium

VRL-C 870 D Premium

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Connector for air duct
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. • Air ducting is required for routing the outdoor and exhaust air. Extract air and supply air can be channelled to precise points in the room or building.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or flue gas through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher ranking building management system via BACnet, Modbus or LON interface (accessories). • The integral PCB allows easy integration of further functions, such as smoke detectors, intermittent ventilation, minimum ventilation, external OFF and control of a hydraulic reheating coil. • With the integral reheating coil, the supply air temperature can be raised to a comfortable level. • Thanks to permanent monitoring of temperature and humidity levels by the intelligent preheating control, demand for electrical energy is reduced to a minimum and the connected load lowered.

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed at various points on the ceiling of the room. • The supply air grille on the front of the appliance can be adjusted to change the direction of the air flow. • The extract air is sucked in through the extract air grille on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

		VRL-C 870 D Premium
Part number		**204134**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	147
Max. power consumption, fan	W	329
Max. power consumption	W	1,750
Power consumption, preheating coil	W	400
Power consumption, reheating coil	W	1,000
Height	mm	507
Width	mm	902

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		VRL-C 870 D Premium
Length	mm	1,688
Air connection diameter	mm	315
Weight	kg	140
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE
Frequency	Hz	50
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	300-870
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	610
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 1

Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237629**
Type		LTM dezent BA VA 410 B
Description		External cover
Part number		**237633**
Type		LTM dezent BA VA 410 W
Description		External cover
Part number		**237672**
Type		LTM dezent 600/800 Z-PSS
Description		Mounting system for decentralised ventilation unit
Part number		**237674**
Type		LTM dezent RWA
Description		Mounting system for decentralised ventilation unit

Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units

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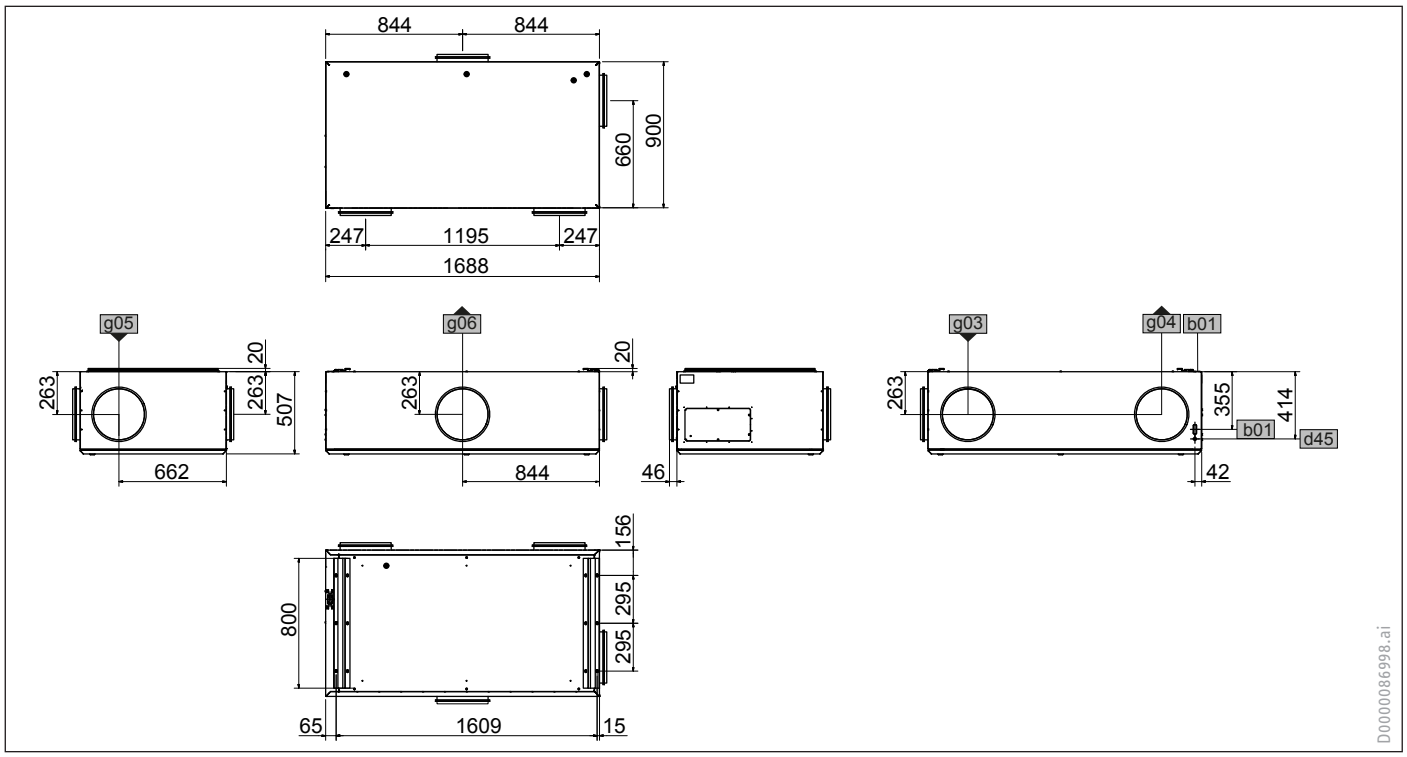
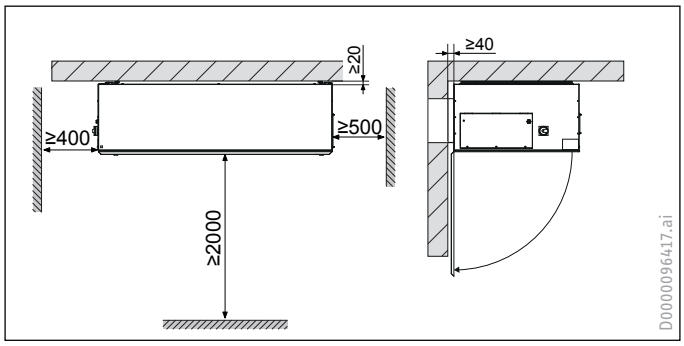
		VRL-C 870 D Premium
Maintenance		
Part number		**206202**
Type		FMK M5-2 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206203**
Type		FMK M5-10 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206204**
Type		FMK F7-2 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206205**
Type		FMK F7-10 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**237668**
Type		LTM dezent FMS F9-1
Description		Filter mat set for decentralised ventilation unit

Availability on request



		VRL-C 870 D Premium
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	315
g04 Exhaust air - diameter	mm	315
g05 Extract air - diameter	mm	315
g06 Supply air - diameter	mm	315

Minimum clearance diagram



VRL-C 870 D Trend

VRL-C 870 D Trend

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Connector for air duct
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille diffusers on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or flue gas through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher ranking building management system via BACnet, Modbus or LON interface (accessories).

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. The pipe connector for the supply air line is located on the front of the appliance. Extract air is routed via the extract air connector on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

		VRL-C 870 D Trend
Part number		**204135**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	147
Max. power consumption, fan	W	329
Max. power consumption	W	1,850
Power consumption, preheating coil	W	1,500
Height	mm	507
Width	mm	902
Length	mm	1,688
Air connection diameter	mm	315
Weight	kg	140
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE
Frequency	Hz	50

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		VRL-C 870 D Trend
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	300-870
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	610
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 1
Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237629**
Type		LTM dezent BA VA 410 B
Description		External cover
Part number		**237633**
Type		LTM dezent BA VA 410 W
Description		External cover
Part number		**237672**
Type		LTM dezent 600/800 Z-PSS
Description		Mounting system for decentralised ventilation unit
Part number		**237674**
Type		LTM dezent RWA
Description		Mounting system for decentralised ventilation unit
Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units
Maintenance		
Part number		**206202**
Type		FMK M5-2 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206203**
Type		FMK M5-10 ABL dez. 800/870
Description		Filter mat set for decentralised ventilation unit

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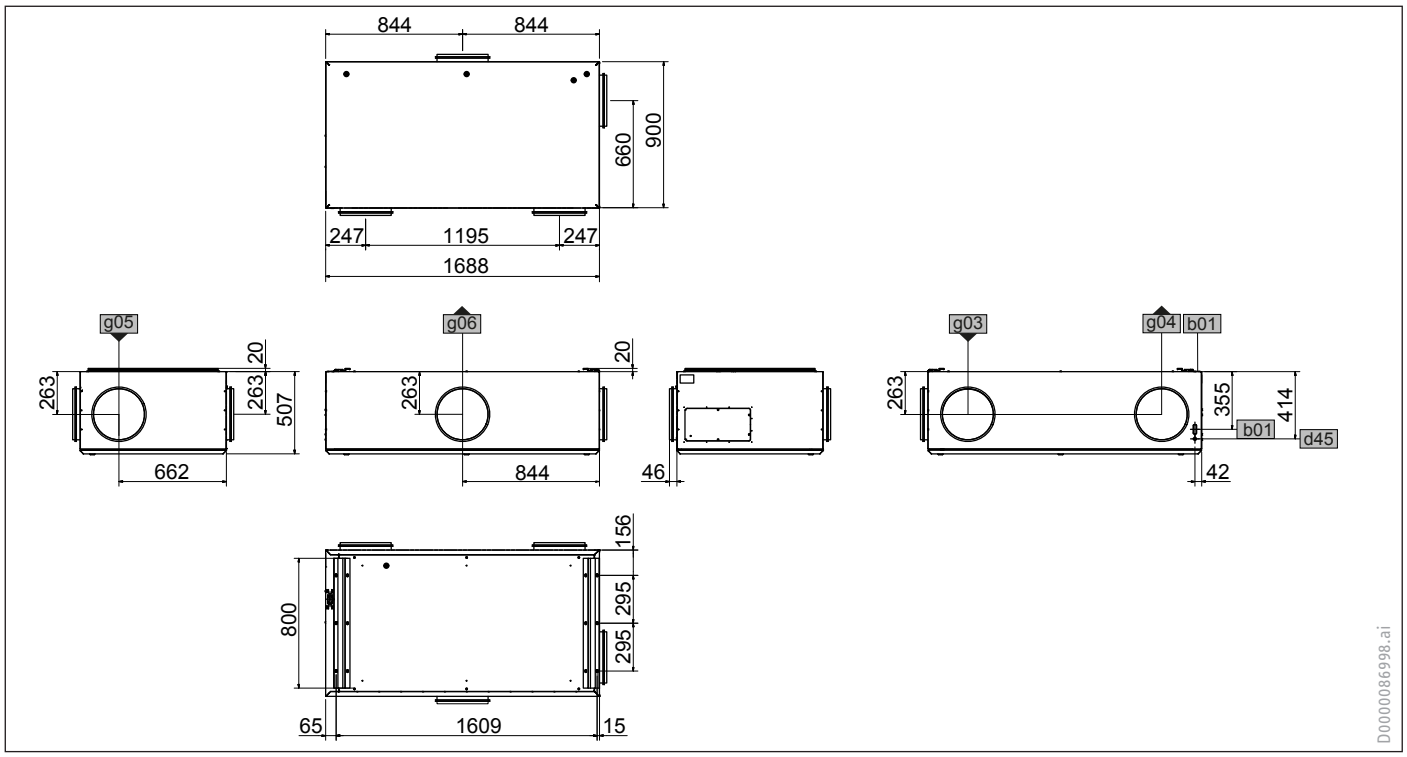
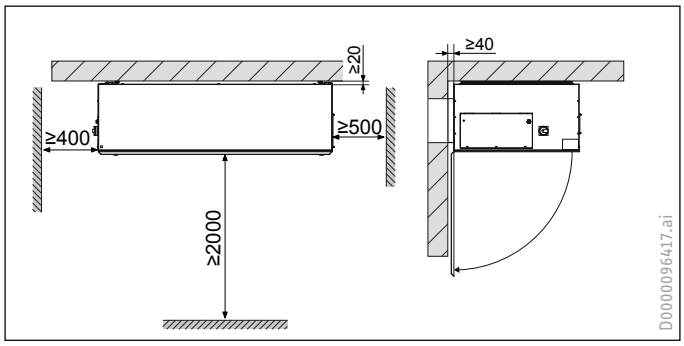
		VRL-C 870 D Trend
Part number		**206204**
Type		FMK F7-2 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**206205**
Type		FMK F7-10 ZUL dez. 800/870
Description		Filter mat set for decentralised ventilation unit
Part number		**237668**
Type		LTM dezent FMS F9-1
Description		Filter mat set for decentralised ventilation unit

Availability on request



		VRL-C 870 D Trend
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	315
g04 Exhaust air - diameter	mm	315
g05 Extract air - diameter	mm	315
g06 Supply air - diameter	mm	315

Minimum clearance diagram



VRL-C 300 G Premium

VRL-C 300 G Premium

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- The supply and discharge air grilles can be adjusted to optimise air flow
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as classrooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille diffusers on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. The temperature-dependent bypass automatically circumvents heat recovery when necessary. All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or flue gas through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher ranking building management system via BACnet, Modbus or LON interface (accessories).

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. • The supply air grille with adjustable air flow direction is located on the front of the appliance. • The extract air is sucked in through a grille on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

		VRL-C 300 G Premium
Part number		**204140**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	67
Max. power consumption, fan	W	137
Max. power consumption	W	1,150
Power consumption, preheating coil	W	600
Power consumption, reheating coil	W	400
Height	mm	407
Width	mm	585
Length	mm	1,202
Air connection diameter	mm	200
Weight	kg	100
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE

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		VRL-C 300 G Premium
Frequency	Hz	50
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	100-300
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	210
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 2
Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237627**
Type		LTM dezent 300 BA VA 320 B
Description		External cover
Part number		**237628**
Type		LTM dezent 300 BA VA 320 W
Description		External cover
Part number		**237671**
Type		LTM dezent 300 Z-PSS
Description		Mounting system for decentralised ventilation unit
Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units
Maintenance		
Part number		**206206**
Type		FMK M5-2 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206207**
Type		FMK M5-10 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206208**
Type		FMK F7-2 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit

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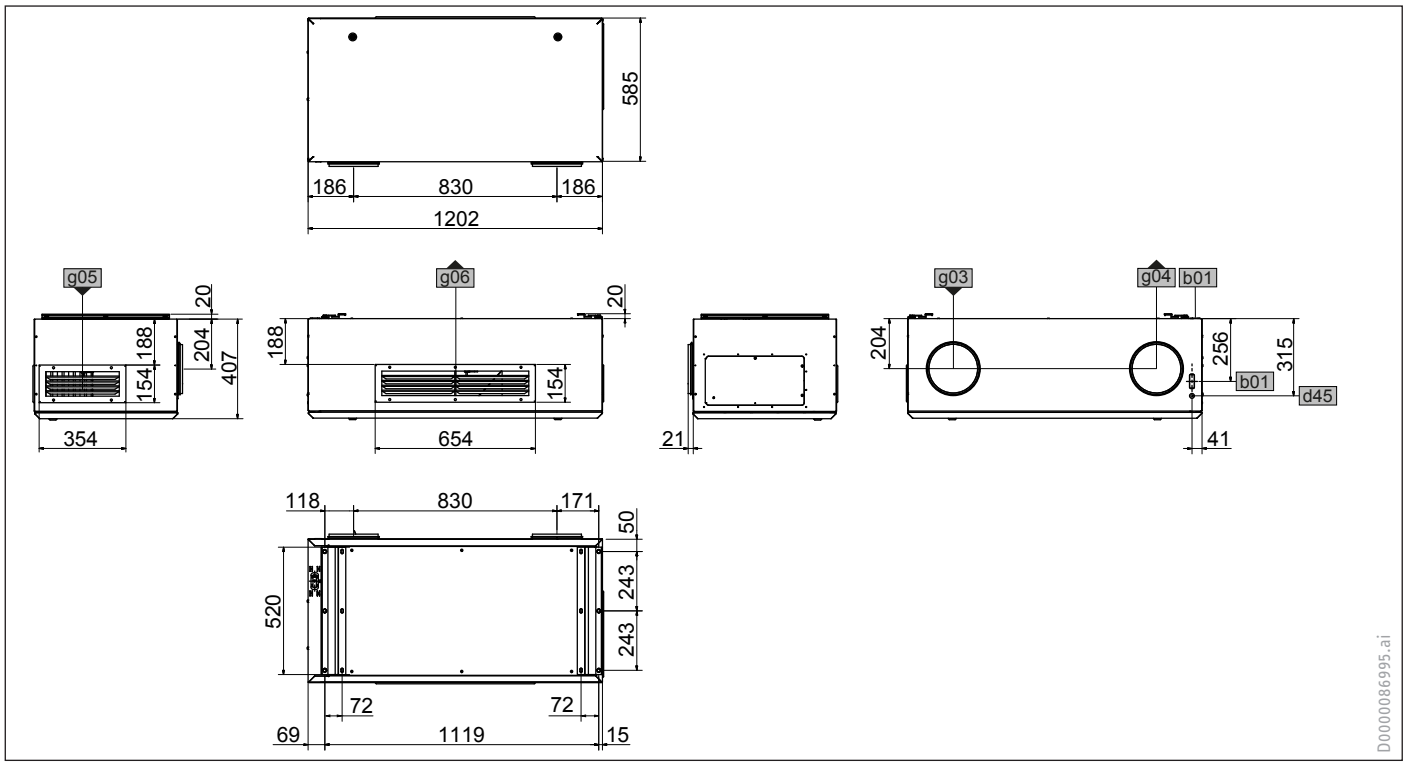
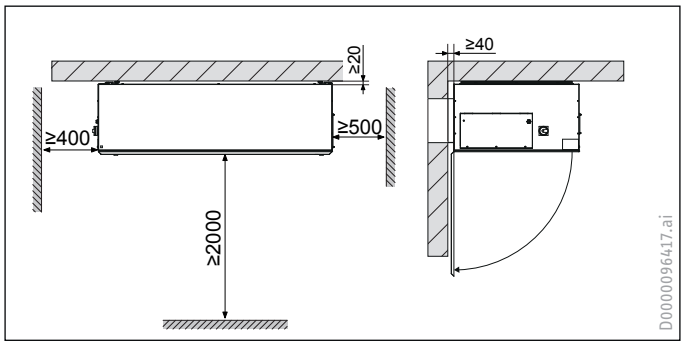
		VRL-C 300 G Premium
Part number		**206209**
Type		FMK F7-10 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit

Availability on request



		VRL-C 300 G Premium
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	200
g04 Exhaust air - diameter	mm	200
g05 Extract air		•
g06 Supply air		•

Minimum clearance diagram



VRL-C 300 G Trend

VRL-C 300 G Trend

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- The supply and discharge air grilles can be adjusted to optimise air flow
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille diffusers on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or flue gas through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher ranking building management system via BACnet, Modbus or LON interface (accessories).

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. The supply air grille on the front of the appliance can be adjusted to change the direction of the air flow. The extract air is sucked in through the extract air grille on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

		VRL-C 300 G Trend
Part number		**204141**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	67
Max. power consumption, fan	W	137
Max. power consumption	W	760
Power consumption, preheating coil	W	600
Height	mm	407
Width	mm	585
Length	mm	1,202
Air connection diameter	mm	200
Weight	kg	100
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE
Frequency	Hz	50

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		VRL-C 300 G Trend
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	100-300
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	210
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 2

Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237627**
Type		LTM dezent 300 BA VA 320 B
Description		External cover
Part number		**237628**
Type		LTM dezent 300 BA VA 320 W
Description		External cover
Part number		**237671**
Type		LTM dezent 300 Z-PSS
Description		Mounting system for decentralised ventilation unit

Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units

Maintenance		
Part number		**206206**
Type		FMK M5-2 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206207**
Type		FMK M5-10 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206208**
Type		FMK F7-2 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit

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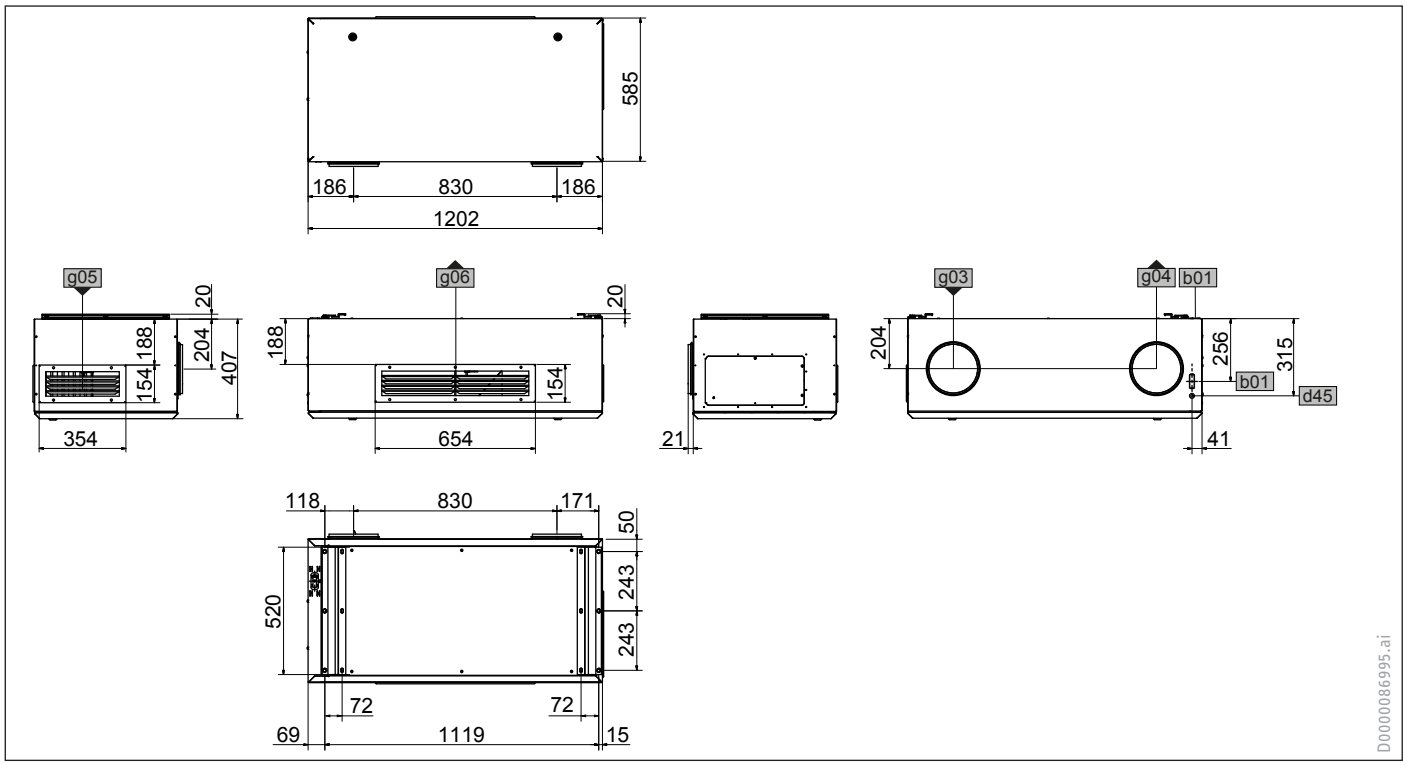
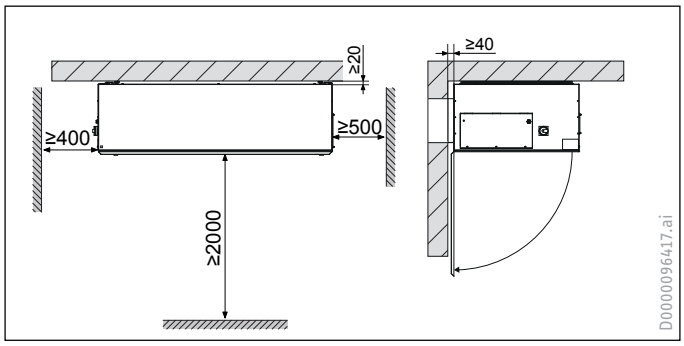
		VRL-C 300 G Trend
Part number		**206209**
Type		FMK F7-10 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit

Availability on request



		VRL-C 300 G Trend
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	200
g04 Exhaust air - diameter	mm	200
g05 Extract air		•
g06 Supply air		•

Minimum clearance diagram



VRL-C 300 D Premium

VRL-C 300 D Premium

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Connector for air duct
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as classrooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. • Air ducting is required for routing the outdoor and exhaust air. Extract air and supply air can be channelled to precise points in the room or building.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • To prevent uncontrolled air flow when the appliance is on standby, the systems are equipped with motorised outdoor air and exhaust air dampers. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or flue gas through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher ranking building management system via BACnet, Modbus or LON interface (accessories). • The integral PCB allows easy integration of further functions, such as smoke detectors, intermittent ventilation, minimum ventilation, external OFF and control of a hydraulic reheating coil. • The integral reheating coil can raise the supply air temperature to a comfortable level. • Permanent monitoring of the temperature and humidity levels by the intelligent preheating control minimises the use of electrical energy and reduces the required connected load.

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. • The pipe connector for the supply air line is located on the front of the appliance. Extract air is routed via the extract air connector on the right of the narrow side

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

		VRL-C 300 D Premium
Part number		**204142**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	67
Max. power consumption, fan	W	137
Max. power consumption	W	1,150
Power consumption, preheating coil	W	600
Power consumption, reheating coil	W	400
Height	mm	407
Width	mm	585
Length	mm	1,202
Air connection diameter	mm	200
Weight	kg	100

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		VRL-C 300 D Premium
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE
Frequency	Hz	50
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	100-300
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	210
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 2

Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237627**
Type		LTM dezent 300 BA VA 320 B
Description		External cover
Part number		**237628**
Type		LTM dezent 300 BA VA 320 W
Description		External cover
Part number		**237671**
Type		LTM dezent 300 Z-PSS
Description		Mounting system for decentralised ventilation unit

Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units

Maintenance		
Part number		**206206**
Type		FMK M5-2 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206207**
Type		FMK M5-10 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit

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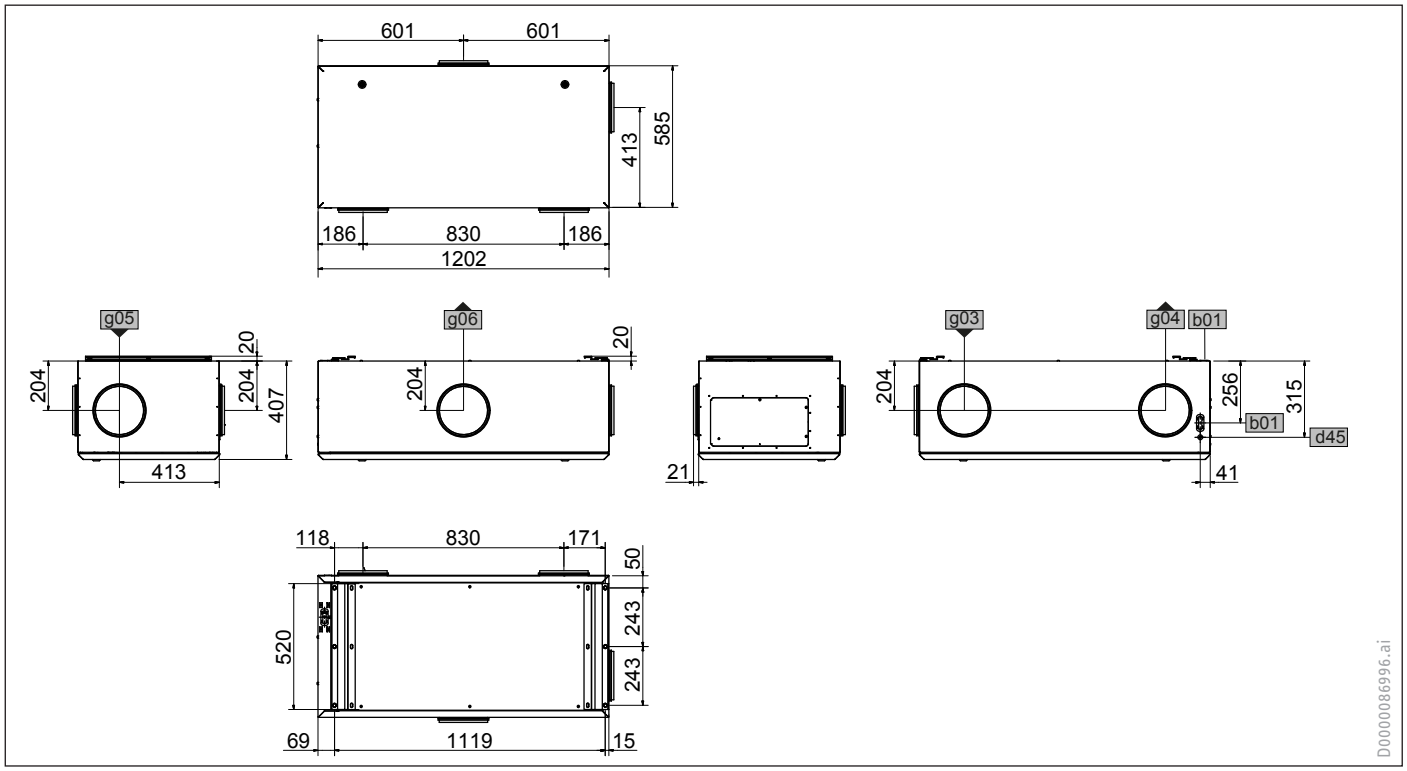
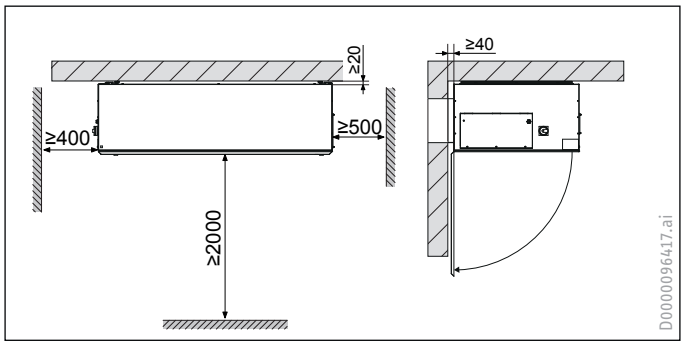
		VRL-C 300 D Premium
Part number		**206208**
Type		FMK F7-2 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206209**
Type		FMK F7-10 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit

Availability on request



		VRL-C 300 D Premium
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	200
g04 Exhaust air - diameter	mm	200
g05 Extract air - diameter	mm	200
g06 Supply air - diameter	mm	200

Minimum clearance diagram



VRL-C 300 D Trend

VRL-C 300 D Trend

Benefits

- High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- Easily installed in the ceiling thanks to the matching rail system
- Easy maintenance as the casing cover pivots open
- Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
- Integral preheater coil
- Connector for air duct
- Very quick and easy installation, even in modernisation projects

Application • Typical applications include controlled ventilation of larger spaces such as classrooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract air and supply air can be channelled to precise points in the room or building.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's air flow rate until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • To prevent uncontrolled air flow when the appliance is on standby, the systems are equipped with motorised outdoor air and exhaust air dampers. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or flue gas through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher ranking building management system via BACnet, Modbus or LON interface (accessories).

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. The supply air connector is located on the front of the appliance. Extract air is routed via the extract air connector on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

		VRL-C 300 D Trend
Part number		**204143**
Specification		
Heat recovery level up to	%	92
Heat recovery level, nominal flow rate DIBt	%	80
Heat recovery level to DIN EN 13053		H1
Filter class, extract air		ePM 10 ≥ 50 % (M5)
Filter class, supply air		ePM1 ≥ 50 % (F7)
Rated power consumption, fan	W	67
Max. power consumption, fan	W	137
Max. power consumption	W	760
Power consumption, preheating coil	W	600
Height	mm	407
Width	mm	585
Length	mm	1,202
Air connection diameter	mm	200
Weight	kg	100
Condensate hose length	m	3
Condensate hose diameter	mm	7
Phases		1/N/PE
Frequency	Hz	50

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		VRL-C 300 D Trend
Fuse protection	A	16
IP rating		IP20
Cable length	m	3
Air flow rate	m³/h	100-300
Min. ceiling clearance	mm	20
Nominal air flow rate	m³/h	210
Max. efficiency, cross-counter-current heat exchanger	%	92
Max. ambient conditions, installation room (temperature)	°C	40
Min. ambient conditions, installation room (temperature)	°C	12
SFP classification to DIN EN 13779		SFP 2
Required accessories		
Part number		**204144**
Type		ZVRL-C CU
Description		Controller for decentralised ventilation unit
Part number		**237627**
Type		LTM dezent 300 BA VA 320 B
Description		External cover
Part number		**237628**
Type		LTM dezent 300 BA VA 320 W
Description		External cover
Part number		**237671**
Type		LTM dezent 300 Z-PSS
Description		Mounting system for decentralised ventilation unit
Recommended accessories		
Part number		**237126**
Type		LTM TL HUMIDITY
Description		Humidity sensor
Part number		**237646**
Type		LTM dezent BACnet Web - Ethernet
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237647**
Type		LTM dezent LON IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237648**
Type		LTM dezent Modbus RS 485 IF
Description		Interface card for connecting decentralised ventilation units to a building management system
Part number		**237649**
Type		LTM dezent CO2
Description		CO2 sensor
Part number		**237658**
Type		LTM dezent VOC
Description		VOC sensor for demand-controlled management of decentralised ventilation units
Maintenance		
Part number		**206206**
Type		FMK M5-2 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206207**
Type		FMK M5-10 ABL dez. 300
Description		Filter mat set for decentralised ventilation unit
Part number		**206208**
Type		FMK F7-2 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit

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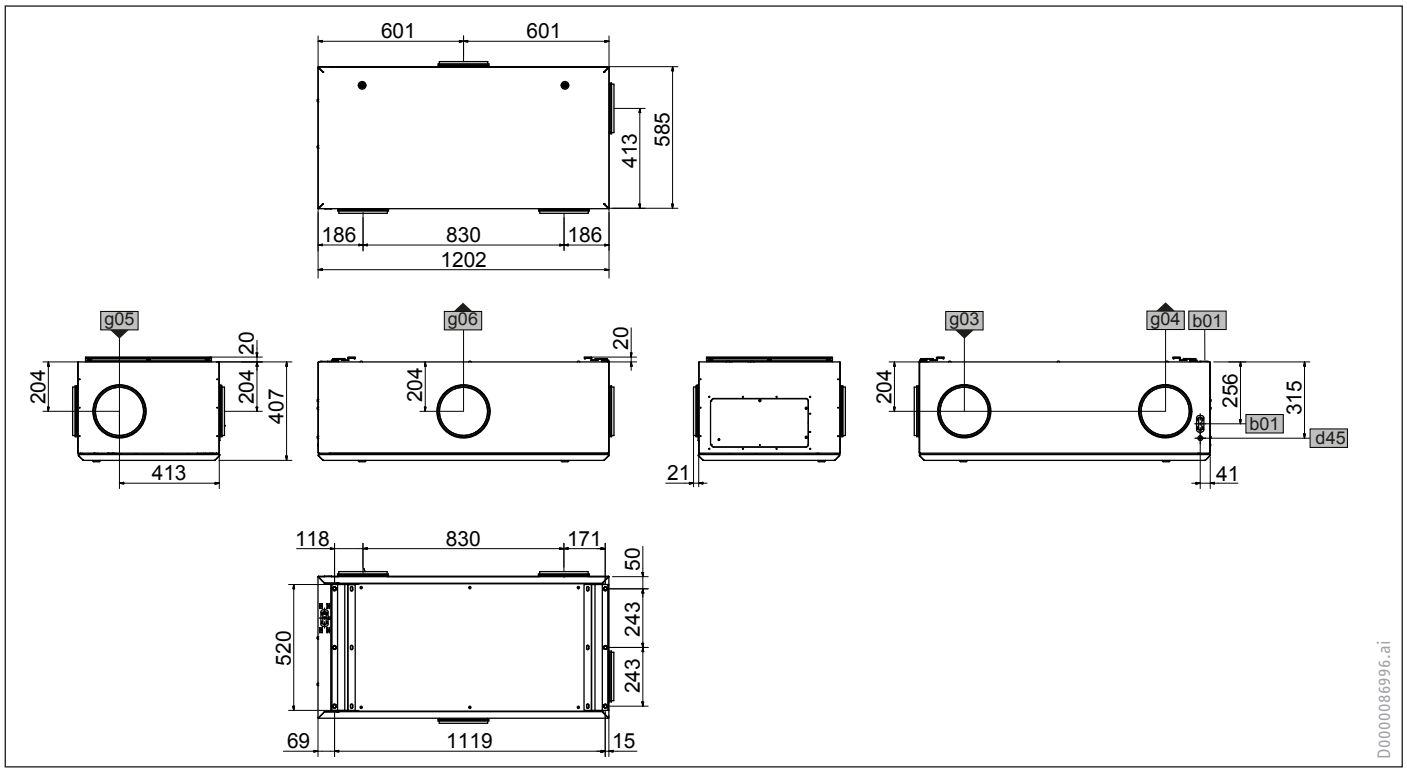
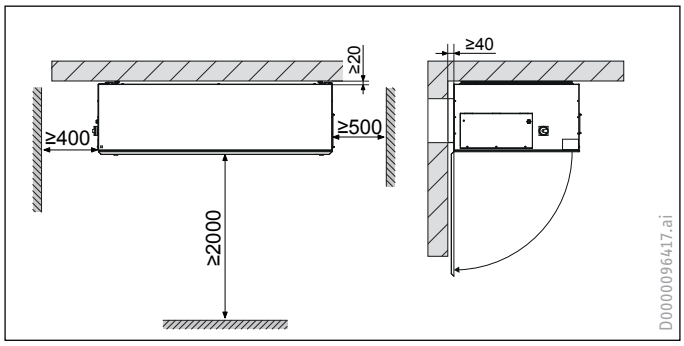
		VRL-C 300 D Trend
Part number		**206209**
Type		FMK F7-10 ZUL dez. 300
Description		Filter mat set for decentralised ventilation unit

Availability on request



		VRL-C 300 D Trend
b01 Entry electrical cables		•
d45 Condensate drain		•
g03 Outdoor air - diameter	mm	200
g04 Exhaust air - diameter	mm	200
g05 Extract air - diameter	mm	200
g06 Supply air - diameter	mm	200

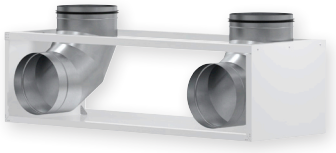
Minimum clearance diagram



Accessories for decentralised ventilation in non-residential buildings

Installation accessories
Accessories 506
Wall terminal
Accessories 507
Controllers and sensors
Accessories 508
Supplementary accessories
Accessories 510
Filter
Accessories 511

DEZ MG



Description • Mounting system for decentralised ventilation unit.

LTM dezent 300 ULB-90

		LTM dezent 300 ULB-90	LTM dezent ULB-90	LTM dezent 300 Z-PSS	LTM dezent 600/800 Z-PSS	LTM dezent C-PSS	LTM dezent RWA
Part number		**237626**	**237634**	**237671**	**237672**	**237673**	**237674**
Specification							
Width	mm	400	600	56	56	26	477
Length	m	1,202	1,688	0,52	0,8	1	1,688

Wall terminal

ABL SL

LTM dezent 300 BA VA 320 B

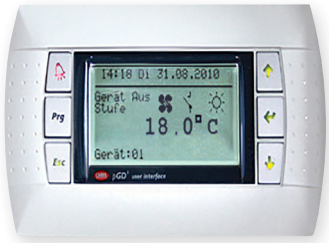
Benefits

› Weather-resistant stainless steel external cover

Description • External cover for wall terminal on the façade. Mounting frame with integral drip edge and bird guard for installation on the façade. Sealing of plaster with sealing tape. Draining condensate safely in front of the plaster.

		LTM dezent 300 BA VA 320 B	LTM dezent 300 BA VA 320 W	LTM dezent BA VA 410 B	LTM dezent BA VA 410 W
Part number		**237627**	**237628**	**237629**	**237633**
Specification					
Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Height	mm	327	327	422	422
Width	mm	324	324	423	423
Depth	mm	112	112	215	215
Colour		other	white	other	white

ZVRL-C CU



Benefits
- Convenient control of decentralised ventilation systems
- For wall mounting indoors
- Beautifully designed

Description • This digital control unit for up to 20 appliances has an integral LCD screen which displays all the relevant operating modes. • The system can be operated and programmed intuitively with just 6 buttons. This allows variable control of air flow rates and supply air temperature. • Using the bypass function, night-time cooling in the summer can be set manually or to automatic mode. • The integral time switch automatically switches between summertime and wintertime. • In addition to the monitoring, status and alarm functions (filter change warning signal), demand-dependent operation can be achieved with the aid of CO2 and VOC sensors. • The programming unit is mounted on the wall.

ZVRL-C CU

		ZVRL-C CU
Part number		**204144**
Specification		
Colour		white
Width	mm	156
Height	mm	82
Depth	mm	31

Availability on request

VOC

Benefits
- VOC sensor for decentralised ventilation units
- Reliable detection of volatile organic compounds

Description • VOC sensor for demand-controlled management of decentralised ventilation units.

LTM dezent VOC

		LTM dezent VOC
Part number		**237658**
Specification		
Width	mm	100
Height	mm	100
Depth	mm	28

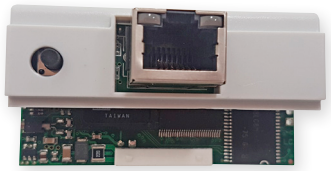
CO2 S SL

LTM dezent CO2

Description • The CO2 sensor for demand-dependent, enhanced ventilation mode is supplied with a sensor and threshold switch.

		LTM dezent CO2
Part number		**237649**
Specification		
Version		Room sensor
Width	mm	80
Height	mm	100
Depth	mm	28

DEZ IF



Description • Interface cards to connect decentralised ventilation units to a building management system.

LTM dezent BACnet Web - Ethernet

		LTM dezent BACnet Web - Ethernet	LTM dezent LON IF	LTM dezent Modbus RS 485 IF
Part number		**237646**	**237647**	**237648**
Specification				
Width	mm	100	100	100
Height	mm	50	50	50
Depth	mm	5	5	5

FMS dez SL

LTM dezent FMS F9-1

Benefits
- High performance filters for ventilation systems
- Different filter classes available
- Filter class ePM1 ≥ 80 % (F9) (Product: 237668)
- Filter class ePM10 ≥ 50 % (M5) (Product: 206202, 206203, 206206, 206207)
- Filter class ePM1 ≥ 50 % (F7) (Product: 206204, 206205, 206208)

Description • The filter set, with particularly low pressure drop, allows high grade air filtration.

		LTM dezent FMS F9-1	FMK M5-2 ABL dez. 800/870	FMK M5-10 ABL dez. 800/870	FMK F7-2 ZUL dez. 800/870	FMK F7-10 ZUL dez. 800/870
Part number		**237668**	**206202**	**206203**	**206204**	**206205**
Specification						
Quantity		1	2	10	2	10
Filter class		ePM1 ≥ 80 % (F9)	ePM10 ≥ 50 % (M5)	ePM10 ≥ 50 % (M5)	ePM1 ≥ 50 % (F7)	ePM1 ≥ 50 % (F7)
Application		Ventilation units	Ventilation units	Ventilation units	Ventilation units	Ventilation units

		FMK M5-2 ABL dez. 300	FMK M5-10 ABL dez. 300	FMK F7-2 ZUL dez. 300	FMK F7-10 ZUL dez. 300
Part number		**206206**	**206207**	**206208**	**206209**
Specification					
Quantity		2	10	2	10
Filter class		ePM10 ≥ 50 % (M5)	ePM10 ≥ 50 % (M5)	ePM1 ≥ 50 % (F7)	ePM1 ≥ 50 % (F7)
Application		Ventilation units	Ventilation units	Ventilation units	Ventilation units

Storage heaters 515

Accessories for storage heaters 517

Application areas

Heating output

	W	820	1180	1630	1910	2400	2770
SHF 2000							
SHF 3000							
SHF 4000							
SHF 5000							
SHF 6000							
SHF 7000							

Standard storage heater
SHF 2000-7000 516

Standard storage heater

SHF 2000-7000

SHF 2000

Benefits

- For convenient, energy saving operation, C-Plus technology is used as an intelligent automatic charging system.
- Enable time for charging can be set directly on the appliance
- Integral RT controller with weekly timer and open window detection
- In timer mode, the self-learning control unit calculates the preheating time automatically
- Increased safety, as the high limit safety cut-out does not reset automatically
- The connected load can be reduced with a 3-phase connection
- Quiet crossflow fan
- As standard with fluff filter

Application • This compact storage heater is installed on the floor and is suitable as a standalone heater for apartments or commercial spaces. • The appliance is used with off-peak economy tariff models with blocking times.

Convenience features • The integral electronic charge controller with C-Plus technology charges the storage heater fully automatically and according to demand, without additional control units. • The required room temperature and the enable time for charging can be easily adjusted on the display. • In addition to the programmable weekly timer, there are two preset and one individually programmable time programs available. • In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • In addition to the comfort temperature, it is also possible to program the setback temperature. • If required, users are able to activate a function on the appliance which detects when windows are open; this avoids unnecessary energy loss. • With three-phase connection, the connected load can be reduced in four stages. • The control input for AC signals is configured at the factory; a control input for DC signals is available as an optional accessory. • An auxiliary heater can be integrated as an option. • Integral childproofing as the programming unit can be locked. • High heat retention capacity. • The storage heater is equipped as standard with a fluff filter and operates very quietly. •

Installation • The appliance is installed directly on the floor, or off-floor on suitable floor brackets. • The single-phase or three-phase mains connection is easily accessible thanks to the hinged connection panel. A permanent control voltage is required.

Safety • Integral high limit safety cut-out.

		SHF 2000	SHF 3000	SHF 4000	SHF 5000	SHF 6000	SHF 7000
Part number		**200175**	**200176**	**200177**	**200178**	**200179**	**200180**
Specification							
Power supply		1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE
Frequency	Hz	50/-	50/-	50/-	50/-	50/-	50/-
Rated current	A	2,9	4,3	5,8	7,2	8,7	10,1
Rated connected load	kW	2.00	3.00	4.00	5.00	6.00	7.00
Fuse protection	A	10	10	10	16	16	16
Heating output	W	820	1180	1630	1910	2400	2770
Operating noise	dB(A)	30	32	33	34	34	34
Heat retention capacity	%	47	52	55	56	59	60
Height	mm	650	650	650	650	650	650
Width	mm	605	780	955	1130	1305	1480
Depth	mm	275	275	275	275	275	275
Weight	kg	32	40	48	56	64	72
Weight (incl. bricks)	kg	116	169	220	266	316	373
Number of brick packs		6	9	12	15	18	21
Colour		alpine white	alpine white	alpine white	alpine white	alpine white	alpine white

Core bricks included in the standard delivery.
Overall depth = 30 mm with wall clearance mesh

Control units
Accessories 518

RTA-S2

RTA-S2

Benefits
- ON/OFF switch
- Variable temperature selection via rotary selector
- Optional temperature setback via external time switch
- Adjustable range restriction so that minimum and maximum temperatures can be specified individually

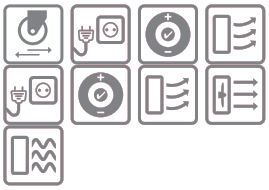
Description • The room temperature controller for surface mounting has an integral bimetal controller with thermal feedback. • The controller has operating selectors. • Thanks to the integral terminal, the temperature can be lowered via an external time switch.

		RTA-S2
Part number		**231061**
Specification		
Breaking capacity	A	10
Rated voltage	V	230
Frequency	Hz	50/-
IP rating		IP30
Colour		pure white, RAL 9010
Width	mm	75
Height	mm	75
Depth	mm	26

Convectors 521

Rapid heater 529

Infrared wall mounted radiant heater 535



Application areas

Heating output

	W	500	1000	1500	2000	3000
CON 5 Premium						
CON 10 Premium						
CON 15 Premium						
CON 20 Premium						
CON 30 Premium						

	W	500	750	1000	1500	2000	2500	3000
CWM 500 P								
CWM 750 P								
CWM 1000 P								
CWM 1500 P								
CWM 2000 P								
CWM 2500 P								
CWM 3000 P								

	W	500	1000	1500	2000	2500	3000
CNS 50 Trend M							
CNS 100 Trend M							
CNS 150 Trend M							
CNS 200 Trend M							
CNS 250 Trend M							
CNS 300 Trend M							

	W	2000
CNS 2000 Plus LCD Move		
CNS-B 2000 Plus LCD Move		

	W	750	1000	1500	2000	2500	3000
CWM 750 M-F							
CWM 1000 M-F							
CWM 1500 M-F							
CWM 2000 M-F							
CWM 2500 M-F							
CWM 3000 M-F							

Wall installation
- **CON Premium** 522
- **CWM P** 523
- **CNS Trend M** 525

Floorstanding appliances
- **CNS 2000 Plus LCD move** 526
- **CWM M-F** 527

CON Premium

CON 5 Premium

Benefits
- Elegant design with aluminium front
- Electronic controller with illuminated LCD screen
- Weekly timer with 3 time programs, self-learning function and open window detection
- With short-time timer
- Safety through overheating protection
- Omnipolar operating selector
- Long lasting stainless steel tubular heater with steel fins
- Cable storage at the back for the connecting cable
- During a power failure, the clock is buffered for up to 10 hours

Application • This compact, wall mounted convector is used as a standalone heater, as an efficient interim heater in spring/autumn, or simply for additional heat demand in the living space, bathroom or study. • The appliance has won the Red Dot Design Award and looks good in any setting.

Convenience features • The convector with electronic closed-loop control, easy-to-read display and simple programming is characterised by even, silent and accurate heating of the indoor air. • The required room temperature is easy to set at the programming unit. The appliance is equipped with a weekly timer with two preset time programs and one individually programmable time program. A short-time timer is also integrated. • In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • Comfort and setback temperatures can be programmed. • The function for detecting an open window can be activated to avoid wasted energy. • The appliance features a frost protection setting and an omnipolar operating selector. • The high grade stainless steel tubular heater with aluminium coated steel fins is integrated in a robust metal casing. • The adjustable childproofing prevents unintentional or unauthorised modifications to the programming unit.

Installation • Straightforward, stable wall mounting needs one person only. The adjustable wall mounting bracket can be fitted separately from the convector. The appliance simply needs to be hooked into place.

Safety • Integral safety temperature limiter.

reddot award 2018
winner

		CON 5 Premium	CON 10 Premium	CON 15 Premium	CON 20 Premium	CON 30 Premium
Part number		**237830**	**237831**	**237832**	**237833**	**237834**
Specification						
Power supply		1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Rated voltage	V	230	230	230	230	230
Voltage range	V	230	230	230	230	230
Frequency	Hz	50/-	50/-	50/-	50/-	50/-
Rated current	A	2,2	4,3	6,5	8,7	13
Connected load	W	500	1000	1500	2000	3000
Connected load	kW	0,5	1,0	1,5	2	3
Phases		1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Fuse protection	A	10	10	10	16	16
Setting range	°C	5-30	5-30	5-30	5-30	5-30
IP rating		IP24	IP24	IP24	IP24	IP24
Protection class		I	I	I	I	I
Height	mm	470	470	470	470	470
Width	mm	345	470	625	780	1090
Depth	mm	126	126	126	126	126
Weight	kg	4.30	5.90	7.50	9.30	12.60
Colour		alpine white	alpine white	alpine white	alpine white	alpine white

Depth including wall mounting bracket

CWM P

CWM 500 P

Benefits
- Wall mounted convector heaters with high heating output
- Compact metal casing in a slimline design
- Electronic controller with illuminated LCD screen
- Weekly timer with 3 time programs, self-learning function and open window detection
- In timer mode, the self-learning control unit calculates the preheating time automatically
- Safety through overheating protection
- Omnipolar operating selector
- Long lasting stainless steel tubular heater with steel fins
- During a power failure, the clock is buffered for up to 10 hours

Application • This convector is suitable for use as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or study. • With its compact dimensions, it takes up very little space. • The timeless and very slimline design suits any setting.

Convenience features • The convector with electronic closed-loop control ensures even, silent and accurate heating of the indoor air. • The required room temperature is easy to set at the top mounted programming unit. • The appliance has a large and easy-to-read display with programmable weekly timer with one individually programmable and two preset time programs. • In addition to the comfort temperature, it is also possible to program the setback temperature. In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • Omnipolar operating selector. • The high grade tubular heater made from stainless steel with aluminium coated steel fins and the robust metal casing both help to ensure a long service life. • The appliance is equipped with an integral frost protection setting.

Efficiency • Users can activate a function on the appliance which detects open windows, thereby avoiding unnecessary energy loss.

Installation • Straightforward, stable wall mounting needs one person only because the wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that then remains is to hook the maintenance-free appliance into place. • The power cable is fitted with a standard plug.

Safety • Integral childproofing means that the programming unit can be locked. • Integral safety temperature limiter.

		CWM 500 P	CWM 750 P	CWM 1000 P	CWM 1500 P
Part number		**200254**	**200255**	**200256**	**200257**
Specification					
Power supply		1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Rated voltage	V	230	230	230	230
Voltage range	V	230	230	230	230
Frequency	Hz	50	50	50	50
Rated current	A	2,2	3,3	4,3	6,5
Connected load	W	500	750	1000	1500
Connected load	kW	0,5	0,75	1,0	1,5
Phases		1/N/PE	1/N/PE	1/N/PE	1/N/PE
Fuse protection	A	10	10	10	10
Setting range	°C	5 - 30	5 - 30	5 - 30	5 - 30
IP rating		IP24	IP24	IP24	IP24
Protection class		I	I	I	I
Height	mm	450	450	450	450
Width	mm	348	426	426	582
Depth	mm	100	100	100	100
Weight	kg	4.00	4.60	4.60	6.00
Colour		alpine white	alpine white	alpine white	alpine white

		CWM 2000 P	CWM 2500 P	CWM 3000 P
Part number		**200258**	**200259**	**200260**
Specification				
Power supply		1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Rated voltage	V	230	230	~230
Voltage range	V	230	230	230

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next page >

		CWM 2000 P	CWM 2500 P	CWM 3000 P
Frequency	Hz	50	50	50
Rated current	A	8,7	10,9	13,0
Connected load	W	2000	2500	3000
Connected load	kW	2,0	2,5	3,0
Phases		1/N/PE	1/N/PE	1/N/PE
Fuse protection	A	10	16	16
Setting range	°C	5 - 30	5 - 30	5 - 30
IP rating		IP24	IP24	IP24
Protection class		I	I	I
Height	mm	450	450	450
Width	mm	738	894	1050
Depth	mm	100	100	100
Weight	kg	7.70	9.20	10.90
Colour		alpine white	alpine white	alpine white

Depth including wall mounting bracket

CNS Trend M

CNS 50 Trend M

Benefits
- Wall mounted convector heaters with high heating output
- Compact metal casing in a slimline design
- Mechanical temperature controller
- Omnipolar operating selector
- Safety through overheating protection
- Long lasting stainless steel tubular heater with steel fins

Application • This compact, wall mounted convector can be used as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or study. • The timeless and very slimline design suits any setting.

Convenience features • The mechanically controlled convector ensures even and silent heating of the indoor air. • The required room temperature can be variably adjusted at the programming unit. • A high grade stainless steel tubular heater with steel fins is integrated in the robust metal casing. The appliance features a frost protection setting and an omnipolar operating selector.

Installation • Straightforward, stable wall mounting needs one person only: the wall mounting bracket is fitted to the wall separately from the appliance and can be adjusted later. All that remains is to hook the appliance into place.

Safety • Integral high limit safety cut-out.

		CNS 50 Trend M	CNS 100 Trend M	CNS 150 Trend M	CNS 200 Trend M	CNS 250 Trend M	CNS 300 Trend M
Part number		**203638**	**203640**	**203641**	**203642**	**203643**	**203644**
Specification							
Power supply		1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Rated voltage	V	230	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Rated current	A	2,2	4,3	6,5	8,7	10,9	10,5
Connected load	W	500	1000	1500	2000	2500	3000
Connected load	kW	0,5	1	1,5	2	2,5	3
Phases		1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Fuse protection	A	10	10	10	10	16	16
Setting range	°C	5-35	5-35	5-35	5-35	5-35	5-35
IP rating		IP24	IP24	IP24	IP24	IP24	IP24
Protection class		I	I	I	I	I	I
Height	mm	450	450	450	450	450	450
Width	mm	348	426	582	738	894	1050
Depth	mm	100	100	100	100	100	100
Weight	kg	4.00	4.60	6.00	7.70	9.10	10.50
Colour		alpine white	alpine white	alpine white	alpine white	alpine white	alpine white

Depth including wall mounting bracket
Notice: Only for sales outside the EU. (Product: 203638, 203640, 203641, 203642, 203643, 203644)

CNS 2000 Plus LCD move

CNS 2000 Plus LCD Move

Benefits

- Elegant freestanding convector with a timeless casing design
- High heating output despite slimline design
- Highly safe due to pendulum switch which switches the appliance off if knocked over
- Tested splashproofing for use in bathrooms
- Electronic controller with illuminated LCD screen
- Integral handle
- Long lasting stainless steel tubular heater with steel fins
- Colour: white (similar to RAL 9003) (Product: 207060)
- Colour: black (Product: 207068)

Application • This electronically controlled freestanding convector is characterised by its elegant design casing, which blends in perfectly with any living space. The appliance is easy to program and versatile to use, for example as a booster heater or in recreational rooms that are only used sporadically. • Suitable for the bathroom thanks to IP24 protection class (splashproof). • Thanks to the high heating output, the required heat is available quickly. • The appliances are available in different colours for optimum integration into the living space.

Convenience features • Thanks to its sophisticated and timelessly elegant design, the freestanding convector fits into any living space seamlessly. • The operating controls are integrated into the top and are easily accessible. It is simple to set your required room temperature. A large and easy-to-read display shows information about the most important settings. The programming unit can be locked to prevent unintentional changes. • A weekly time switch with two preset time programs and one individual time program is integrated. The time switch has adaptive control as a learning function for reaching the comfort temperature at exactly the right time in timer mode. • The comfort and setback temperatures can be programmed to suit individual needs. • The convector detects open windows. • The freestanding convector has a high quality, stainless steel tubular heater with steel fins in a robust metal casing.

Installation • The appliance is delivered complete with a power cable with fitted standard plug. It is equipped with stable feet; a handle makes it easy to move around. • The frost protection setting prevents frost damage at low temperatures.

Safety • The freestanding convector offers the greatest possible operational reliability thanks to the built-in pendulum switch, as it switches off automatically if it is tipped over. • IP24 protection class for use even in bathrooms. • The integral safety temperature limiter protects against overheating.

		CNS 2000 Plus LCD Move	CNS-B 2000 Plus LCD Move
		NEW	NEW
Part number		**207060**	**207068**
Specification			
Power supply		1/N/PE ~ 230 V	1/N/PE ~ 230 V
Rated voltage	V	230	230
Voltage range	V	230	230
Frequency	Hz	50/-	50/-
Rated current	A	8,7	8,7
Connected load	W	2000	2000
Connected load	kW	2	2
Phases		1/N/PE	1/N/PE
Fuse protection	A	16	16
Setting range	°C	5-30	5-30
IP rating		IP24	IP24
Protection class		I	I
Height	mm	443	443
Width	mm	738	738
Depth	mm	80	80
Weight	kg	7.90	7.90
Colour		white (similar to RAL 9003)	black

Depth and height including feet with castors (Product: 207060, 207068)

CWM M-F

CWM 750 M-F

Benefits
- Freestanding convectors with a high heating output
- Mechanical temperature controller
- For maximum operational reliability, the integral pendulum switch protects against overturning
- Handle and feet with castors
- Omnipolar operating selector
- Long lasting stainless steel tubular heater with steel fins

Application • This freestanding convector in a robust metal casing provides heat quickly when needed. The appliance is distinguished by easy handling and versatility.

Convenience features • Even and silent heating of the indoor air. • Very user friendly thanks to the top mounted operating controls. • The required room temperature is easy to set at the temperature selector. • High grade stainless steel tubular heater with steel fins. • The convector has a frost protection setting.

Installation • The appliance is delivered complete with a handle, power cable and standard plug. The feet are equipped with castors.

Safety • The built-in pendulum switch ensures protection against overturning for maximum safety in operation. Additional protection against overheating is provided by the integral safety temperature limiter.

		CWM 750 M-F	CWM 1000 M-F	CWM 1500 M-F	CWM 2000 M-F	CWM 2500 M-F	CWM 3000 M-F
Part number		**204452**	**204453**	**204454**	**204455**	**204456**	**204457**
Specification							
Power supply		1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Rated voltage	V	230	230	230	230	230	230
Voltage range	V	230	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Rated current	A	3,3	4,3	6,5	8,7	10,9	13
Connected load	W	750	1000	1500	2000	2500	3000
Connected load	kW	0,75	1	1,5	2	2,5	3
Phases		1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Fuse protection	A	10	10	10	16	16	16
Setting range	°C	5-35	5-35	5-35	5-35	5-35	5-35
IP rating		IP24	IP24	IP24	IP24	IP24	IP24
Protection class		I	I	I	I	I	I
Height	mm	546	546	546	546	546	546
Width	mm	426	426	582	738	894	1050
Depth	mm	305	305	305	305	305	305
Weight	kg	5.00	5.00	6.50	8.70	9.00	10.30
Colour		alpine white	alpine white	alpine white	alpine white	alpine white	alpine white

This product is only suitable for well insulated rooms or for occasional use.
Depth and height including feet with castors

Application areas

Heating output

	W	2000
CK 20 Premium		

	W	2000
CK 20 Trend LCD		

	W	2000
CK 20 Trend		

Rapid heater

CK Premium	530
CK Trend LCD	531
CK Trend	532

Rapid heater

CK Premium

CK 20 Premium

Benefits

- Elegant design with aluminium front
- Electronic controller with illuminated LCD screen
- Silent mode with a quiet heating stage and powerful rapid heat-up stage
- Weekly timer with 3 time programs, self-learning function and open window detection
- With short-time timer
- Safety through overheating protection
- Omnipolar operating selector

Application • This high quality rapid heater is suitable as a standalone heater or as a booster heater, particularly for rooms that are not heated constantly. • The wall mounted appliance heats the indoor air quickly and evenly. • The design has won the Red Dot Design Award; the appliance suits any setting.

Convenience features • The premium rapid heater with electronic closed-loop control is equipped with a large, easy-to-read display. The required room temperature can be easily adjusted at the top-mounted programming unit. • In addition to the programmable weekly timer, there are two preset and one individually programmable time programs available. • In addition to the comfort temperature, the setback temperature can also be programmed. In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • Quiet operation in Silent Mode which features a switchable heating stage and reduced fan speed. • The elegant appliance is equipped with an aluminium front and has an integral frost protection setting.

Efficiency • To prevent unnecessary energy losses, users can activate a function that detects open windows.

Installation • Straightforward, stable wall mounting by just one person because the wall mounting bracket is fitted separately from the appliance and can be adjusted afterwards. All that then remains is to hook the maintenance-free appliance into place.

Safety • Integral childproofing as the programming unit can be locked. • The rapid heater has an integral safety temperature limiter.

reddot award 2018
winner

		CK 20 Premium
Part number		**237835**
Specification		
Power supply		1/N/PE ~ 230 V
Rated voltage	V	230
Voltage range	V	220-240
Frequency	Hz	50
Rated current	A	8,7
Connected load	W	2000
Connected load	kW	2
Phases		1/N/PE
Fuse protection	A	16
Sound pressure level	dB(A)	37/48
Setting range	°C	5-30
IP rating		IP24
Protection class		I
Height	mm	470
Width	mm	345
Depth	mm	126
Weight	kg	5.30
Colour		alpine white

Depth including wall mounting bracket

Rapid heater

CK Trend LCD

CK 20 Trend LCD

Benefits

- Compact appliance in a plastic casing
- Electronic controller with illuminated LCD screen
- Weekly timer with 3 time programs, self-learning function and open window detection
- During a power failure, the clock is buffered for up to 10 hours
- Very high safety thanks to 3-stage overheating protection
- Fluff filter in the air intake
- Cable storage at the back for the connecting cable
- Very quiet operation

Application • This rapid heater is suitable as a standalone heater in the bathroom. The appliance can also be used as an efficient interim heater in spring/autumn and as a booster heater, for example in a guest room or recreational room. • Thanks to its compact design, the rapid heater does not take up much space. • The appliance is designed for wall mounting and heats the indoor air quickly and evenly.

Convenience features • The rapid heater with electronic closed-loop control is equipped with a large, easy-to-read display. • The required room temperature can be easily adjusted at the top-mounted programming unit. • In addition to the programmable weekly timer, there are two preset and one individually programmable time programs available. • In addition to the comfort temperature, the setback temperature is also programmable. The comfort temperature is reached at exactly the right time in timer mode. Adaptive control with a learning function is integrated for this purpose. • If required, users are able to activate a function which detects when windows are open; this avoids unnecessary energy loss. • The rapid heater has an integral fluff filter. • The casing is made from hard-wearing plastic.

Efficiency • The high quality self-limiting ceramic heating element keeps the temperature constant to save energy.

Installation • Stable wall mounting is possible with one person only: the wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. The appliance is then simply hooked into place. • The power cable is fitted with a right angle plug as standard (not for GB). Any excess cable can be housed in the cable storage compartment on the back panel.

Safety • Integral childproofing as the programming unit can be locked. • The 3-stage safety concept includes the self-limiting ceramic heating element, the safety temperature limiter and the built-in fuse.

		CK 20 Trend LCD
Part number		**236653**
Specification		
Power supply		1/N ~ 230 V
Rated voltage	V	~230
Voltage range	V	220-240
Frequency	Hz	50/-
Rated current	A	8,7
Connected load	W	2000
Connected load	kW	2
Phases		1/N
Fuse protection	A	16
Sound pressure level	dB(A)	49
Setting range	°C	5-30
IP rating		IP24
Protection class		II
Height	mm	400
Width	mm	275
Depth	mm	131
Weight	kg	2.50
Colour		alpine white

Depth including wall mounting bracket

Rapid heater

CK Trend

CK 20 Trend

Benefits

- Compact appliance in a plastic casing
- Mechanical temperature controller
- Self-limiting PTC heating element
- Very high safety thanks to 3-stage overheating protection
- Fluff filter in the air intake
- Cable storage at the back for the connecting cable
- Very quiet operation

Application • This compact wall mounted rapid heater is an efficient standalone heater or booster heater for rooms that are not heated constantly. The mechanically controlled appliance heats the indoor air quickly, quietly and evenly.

Convenience features • The required room temperature can be variably adjusted via the controller at the side. • The casing is made from robust plastic. • Top-mounted operating controls. • The rapid heater is equipped with a cable storage compartment at the back and a fluff filter in the air intake.

Installation • Straightforward, stable wall mounting needs one person only: the wall mounting bracket is fitted to the wall separately from the appliance and can be adjusted later. • The maintenance-free appliance has a power cable with right angle plug.

Safety • The 3-stage safety concept includes the self-limiting ceramic heating element, a safety temperature limiter and the built-in fuse.

		CK 20 Trend
Part number		**234918**

Specification		
Power supply		1/N ~ 230 V
Rated voltage	V	~230
Voltage range	V	220-240
Frequency	Hz	50
Rated current	A	8,7
Connected load	W	2000
Connected load	kW	2
Phases		1/N
Fuse protection	A	16
Sound pressure level	dB(A)	49
Setting range	°C	7-35
IP rating		IP24
Protection class		II
Height	mm	400
Width	mm	275
Depth	mm	131
Weight	kg	2.50
Colour		alpine white

Depth including wall mounting bracket

Notice: for sale only outside the EU. (Product: 234918)

Rapid heater

Application areas

Heating output

	W
	1200
IW 120	

Infrared wall mounted radiant heater

Indoor

IW 536

IW

IW 120

Benefits
- Full metal casing
- Pull-cord activation
- Display shows the switching position in the indicator window

Application • This radiant heater is suitable for heating small rooms. The appliance gives off noticeable warmth immediately without any air movement. It is particularly suitable for bathrooms, recreational rooms or wind-sheltered, covered verandas.

Convenience features • The pivoting highly polished reflector is equipped with quartz heater rods. It is operated by a pull cord.

Installation • Easy wall mounting with direct electrical connection.

		IW 120
Part number		**229339**
Specification		
Power supply		1/N/PE ~ 230 V
Rated voltage	V	230
Frequency	Hz	50/60
Rated current	A	5.2
Rated output	kW	1.2
Connected load	W	1200
Number of heating stages		3
IP rating		IPX4
Protection class		I to EN 60335
Height	mm	145
Width	mm	535
Depth	mm	85
Weight	kg	1.55
Colour		silver
Installation type		Indoor/outdoor installation

Hand dryer

Hand dryer, high speed

539

Hand dryer

Hand dryer, high speed

High speed
ULTRONIC Premium 540
ULTRONIC Plus 541

High speed

ULTRONIC Premium

ULTRONIC Premium

Benefits

- Extremely short hand drying time of less than 12 seconds
- Robust, impact-resistant casing made of brushed stainless steel
- Integral indoor air purifier with UV-C lamp and ion generator
- With HEPA filter for hygienic hand drying with clean air
- Add-on heating element for pleasant hand drying
- Silent mode with reduced fan speed
- Hygienic and energy efficient through IR proximity sensors
- Maintenance-free thanks to brushless motor
- Very long service life
- Energy efficient and environmentally responsible
- Brushed stainless steel casing (Product: 205633)

Application • This high quality, electric high speed hand dryer is distinguished by its particularly short drying time. The appliance dries hands by removing the moisture with a concentrated jet of air. • The hand dryer is ideally suited to the special demands made on washroom facilities in restaurants, commerce and public buildings.

Convenience features • Operation is contactless due to the integral infrared proximity sensors. • Additional hygiene is provided by the HEPA filter and the air purification function by UV-C light and ion generator. The appliance reliably removes dust, pollen, bacteria and viruses from the indoor air. The air purification function works cyclically, running for 1 h and being off for 1 h. • A switchable heating element increases comfort when drying hands. • Optimally suited to sanitary facilities in schools and offices thanks to silent mode. The particularly low connected load enables energy efficient and environmentally responsible operation. • The robust and impact-resistant casing is made from brushed stainless steel.

Installation • Easy installation due to separate mounting plate.

		ULTRONIC Premium
Part number		**205633**
Specification		
Power supply		1/N/PE ~ 220-240 V
Rated voltage	V	230
Frequency	Hz	50/60
Rated current	A	3,1
Rated output	W	720
Operating noise	dB(A)	76
Air speed	m/s	96
Air flow rate	m³/h	84
Drying time	s	12
IP rating		IP23
Protection class		I
Height	mm	309
Width	mm	272
Depth	mm	132
Weight	kg	4.00
Casing material		Stainless steel
Colour		Stainless steel

ULTRONIC Plus

ULTRONIC Plus

Benefits
- Extremely short hand drying time of less than 12 seconds
- Robust, impact-resistant plastic casing
- Integral indoor air purifier with UV-C lamp and ion generator
- With HEPA filter for hygienic hand drying with clean air
- Add-on heating element for pleasant hand drying
- Silent mode with reduced fan speed
- Hygienic and energy efficient through IR proximity sensors
- Maintenance-free thanks to brushless motor
- Very long service life
- Energy efficient and environmentally responsible
- Casing made of impact-resistant plastic (Product: 205632)

Application • This high quality, electric high speed hand dryer is distinguished by its particularly short drying time. The appliance dries hands by removing the moisture with a concentrated jet of air. • The hand dryer is ideally suited to the special demands made on washroom facilities in restaurants, commerce and public buildings.

Convenience features • Operation is contactless due to the integral infrared proximity sensors. • Additional hygiene is provided by the HEPA filter and the air purification function by UV-C light and ion generator. The appliance reliably removes dust, pollen, bacteria and viruses from the indoor air. The air purification function works cyclically, running for 1 h and being off for 1 h.• A switchable heating element increases your comfort during hand drying. • Optimally suited to sanitary facilities in schools and offices thanks to silent mode. The particularly low connected load enables energy efficient and environmentally responsible operation. • The robust and impact-resistant casing is made from plastic.

Installation • Easy installation due to separate mounting plate.

		ULTRONIC Plus
Part number		**205632**
Specification		
Power supply		1/N/PE ~ 220-240 V
Rated voltage	V	230
Frequency	Hz	50/60
Rated current	A	3,1
Rated output	W	720
Operating noise	dB(A)	76
Air speed	m/s	96
Air flow rate	m³/h	84
Drying time	s	12
IP rating		IP23
Protection class		I
Height	mm	309
Width	mm	272
Depth	mm	132
Weight	kg	2.80
Casing material		Plastic
Colour		signal white, RAL 9003

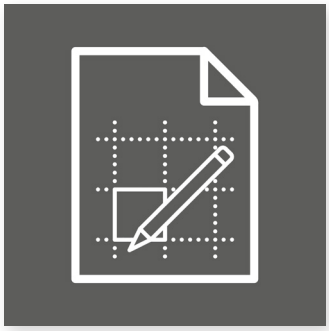
High speed

Engineering 545

Service

Engineering services
Accessories 546

Engineering service: ventilation equipment



Planning of ventilation technology, 3D

Benefits
- System engineering and sizing of a ventilation unit and an air distribution system
- Preparation of verification of the ventilation concept as production information
- The service can be ordered online

Description • System engineering and sizing of a ventilation unit and an air distribution system is handled as part of this service. Standard delivery includes verification of the ventilation concept as production information. The service comprises the stated plans for a ventilation unit or an apartment. • Identical apartments, such as in a multi residency building, are included in the scope of performance of an engineering service.

Requirements • The engineering service can be ordered quickly, easily and digitally via the Toolbox. Alternatively, the necessary order form and the associated technical questionnaire can be obtained from the trade partner internet portal or from the contact person. • In addition to the binding order confirmation, dimensioned floor plans, views and cut-away drawings are required for further processing.

Legal information • The service cannot be refunded or offset.

		Planning of ventilation technology, 3D
Part number		**240592**

Experience service from its personal side

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Comfort through Technology

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