

PS Monoblock Technical Data PS



MPS1107YA11A
MPS1110YA11A
MPS3112YA11A
BPS3112YA11A
BPS3115YA11A
MPS3220YA11A
BPS3224YA11A
BPS3230YA11A

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1 Features

1 - 1 PS

- › 1 year warranty
- › CE certified
- › 50 Hz power supply
- › Ambient working temperature: +5°C ÷ +45°C
- › Cold room working temperature: MT +10°C / -5°C | LT -15°C / -25°C
- › MT and LT in separate models
- › Hermetic reciprocating compressor
- › Suitable for 100mm and 150mm panel
- › Fin&tube condenser
- › Fin&tube evaporator
- › Filter dryer
- › Thermostatic expansion valve
- › Condensate evaporation tray with automatic elimination of condensation water
- › Fixed calibration HP switch with automatic reset
- › Hot gas defrost
- › Propane refrigerant charge 150 gr max per circuit
- › Electronic control board
- › Master slave connection
- › Serial output
- › Predisposition for connection of «Man in cold room» alarm
- › 5m cable for power supply
- › 2m cold room lighting cable (Light bulb holder and bulb as option)
- › 5m microswitch door cable (Microswitch as option)
- › 5m cable for door heater (LT units only)



2 Specifications

2 - 1 Specifications

Technical specifications				MPS1107YA11A	MPS1110YA11A	MPS3112YA11A	BPS3112YA11A
Power input	Max.		W	900	920	1,680	1,310
Dimensions	Unit	Height	mm	745		850	
		Width	mm	400		650	
		Depth	mm	935		1,010	
	Packed unit	Height	mm	982		1,082	
		Width	mm	445		684	
		Depth	mm	985		1,040	
Weight	Unit		kg	50		87.6	
	Packed unit		kg	62.5		110.1	
Compressor	Type			Hermetic reciprocating (ON/OFF controlled) ..			
Condenser	Air flow		m ³ /h	530 (1)		930 (1)	
Defrost				Hot gas			
Evaporator	Air flow		m ³ /h	590 (1)		1,150 (1)	
Operation range	Air throw		m		5 (3)		5 (3)
	Cold room	Min.	°C		-5		-25
	temperature	Max.	°C		10		-15
	Ambient	Min.	°C		5		
Refrigerant	temperature	Max.	°C		45		
	Type				R-290		
	GWP				0.02		
PED	Charge		kg	0.13		0.15	
	Category			Category I			
Characteristics of the hole where to accommodate the units (straddle installation)	Height	Dimension (a)	mm	88		145	
		Width	mm	43		40	
		Dimension (c)	mm	43		60	
Characteristics of the hole where to accommodate the units (through the wall installation)	Height		mm	335		335	
		Width	mm	375		585	
Operating sound pressure at condenser	Max.		dBA	38.5 (2)		47.5 (2)	47.5 (2)
N° of circuits				1			
Technical specifications				BPS3115YA11A	MPS3220YA11A	BPS3224YA11A	BPS3230YA11A
Power input	Max.		W	1,680	2,140	2,250	2,985
Dimensions	Unit	Height	mm			850	
		Width	mm			650	
		Depth	mm			1,010	
	Packed unit	Height	mm			1,082	
		Width	mm			684	
		Depth	mm			1,040	
Weight	Unit		kg	87.6	93		105.4
	Packed unit		kg	110.1	115.5		127.9
Compressor	Type			Hermetic reciprocating (ON/OFF controlled) ..			
Condenser	Air flow		m ³ /h	930 (1)		1,030 (1)	
Defrost				Hot gas			
Evaporator	Air flow		m ³ /h	1,150 (1)		1,230 (1)	
Operation range	Air throw		m			5 (3)	
	Cold room	Min.	°C	-25	-5		-25
	temperature	Max.	°C	-15	10		-15
	Ambient	Min.	°C		5		
Refrigerant	temperature	Max.	°C		45		
	Type				R-290		
	GWP				0.02		
PED	Charge		kg	0.15	0.13	0.13	0.13
	Category			Category I			
Characteristics of the hole where to accommodate the units (straddle installation)	Height	Dimension (a)	mm	145		145	
		Width	mm	40		40	
		Dimension (c)	mm	60		60	
Characteristics of the hole where to accommodate the units (through the wall installation)	Height		mm	335		440	
		Width	mm	585		585	
Operating sound pressure at condenser	Max.		dBA		47.5 (2)		
N° of circuits				1		2	
Electrical specifications				MPS1107YA11A	MPS1110YA11A	MPS3112YA11A	BPS3112YA11A
Power supply	Voltage		V			230	
	Phase					1N~	
	Frequency		Hz			50	
	Maximum fuse amps (MFA)		A			10	
	Maximum Current Amps (MCA)		A	4.89	4.99	9.12	7.12

2 Specifications

2 - 1 Specifications

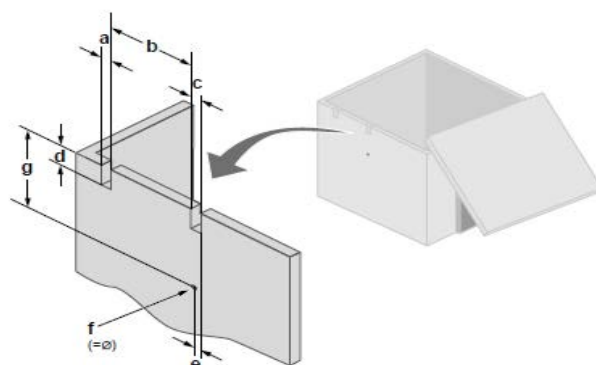
Electrical specifications				MPS1107YA11A	MPS1110YA11A	MPS3112YA11A	BPS3112YA11A
Power supply	Total overcurrent amps (Peak Current Amps)	A		23	29	49	37
	Voltage range	Max.	V	250			
		Min.	V	207			
Rated input		kW		580	0.75	1.43	1.09
Rated input		A		3.76	3.68	6.86	5.62
IP	Class			IPX0			

Electrical specifications				BPS3115YA11A	MPS3220YA11A	BPS3224YA11A	BPS3230YA11A
Power supply	Voltage	V		230			
	Phase			1N~			
	Frequency	Hz		50			
	Maximum fuse amps (MFA)	A		10			
	Maximum Current Amps (MCA)	A		9.12	11.62	12.22	16.22
Total overcurrent amps (Peak Current Amps)		A		43	68	72	84
	Voltage range	Max.	V	250			
		Min.	V	207			
Rated input		kW		1.24	1.84	1.74	2.04
Rated input		A		6.06	8.58	9.22	10.1
IP	Class			IPX0			

(1)According to EN ISO 5801 |

(2)According to UNI EN ISO 3746 .. |

(3)According to CECOMAF GT 6-001 (final velocity = 0,25 m/s)



Model	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	g (mm)
MPS1107YA11A	43	288	43	88	19	28	321
MPS1110YA11A							
MPS3112YA11A	40	470	60	145	19	28	320
BPS3112YA11A							
BPS3115YA11A							
MPS3220YA11A	40	470	60	145	19	28	420
BPS3224YA11A							
BPS3230YA11A							

3 Capacity tables

3 - 1 Cooling Capacity Tables

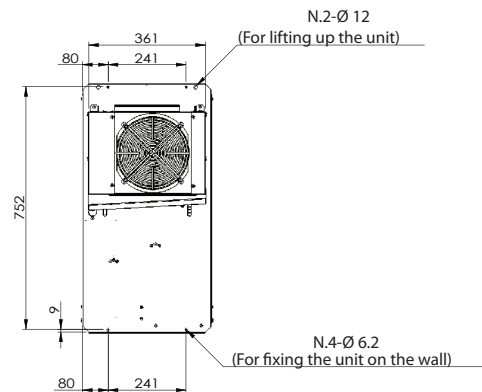
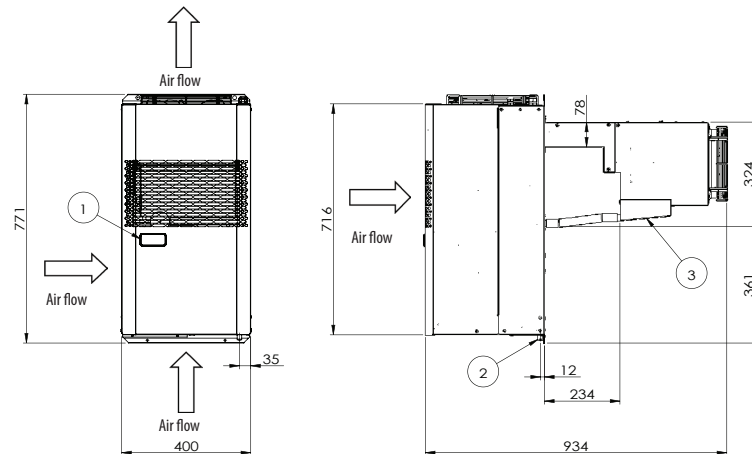
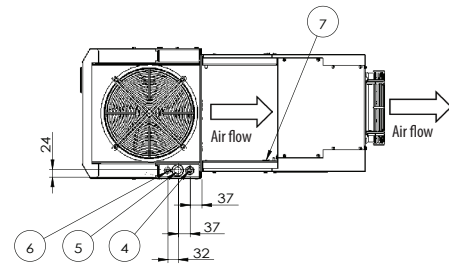
MPS1107YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	10	5	0	-5
	45	1086	935	798	675
	43	1124	970	830	705
	40	1187	1028	884	754
	35	1302	1132	977	836
	32	1370	1192	1149	880
	30	1412	1228	1236	904
	25	1499	1297	1267	981
	20	1543	1372	1278	984
	15	1673	1428	1563	1138
	10	1775	1569	1631	1184
	5	1868	1626	1751	1255
MPS1110YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	10	5	0	-5
	45	1806	1477	1190	944
	43	1873	1533	1236	983
	40	1981	1625	1315	1049
	35	2169	1788	1454	1167
	32	2277	1880	1533	1234
	30	2343	1936	1579	1272
	25	2473	2040	1661	1333
	20	2532	2073	1670	1365
	15	2651	2133	1674	1381
	10	2855	2326	1860	1528
	5	2998	2440	1948	1606
MPS3112YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	10	5	0	-5
	45	2462	2003	1601	1253
	43	2545	2073	1658	1299
	40	2686	2195	1763	1387
	35	2945	2423	1962	1559
	32	3098	2559	2081	1662
	30	3195	2644	2154	1725
	25	3393	2813	2297	1843
	20	3496	2889	2347	1868
	15	3674	3003	2400	1954
	10	3951	3265	2648	2148
	5	4157	3439	2791	2270
MPS3220YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	10	5	0	-5
	45	3749	3082	2499	1997
	43	3864	3176	2574	2056
	40	4062	3344	2714	2172
	35	4431	3663	2988	2406
	32	4653	3855	3154	2550
	30	4793	3976	3258	2639
	25	5084	4221	3462	2807
	20	5244	4335	3536	2965
	15	5710	4662	3732	3049
	10	6008	4952	4018	3324
	5	6328	5215	4230	3510
BPS3112YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	-15	-20	-25	
	45	1014,2	760,1	547,1	
	43	1072,3	810,0	589,8	
	40	1163,2	888,8	594,5	
	35	1303,4	1008,7	760,1	
	32	1366,1	1059	800,2	
	30	1393,6	1078,9	812,7	
	25	1452,2	1103,1	835,0	
	20	1611,9	1247,3	960,5	
	15	1726,4	1339,2	1041,5	
	10	1840,8	1431,1	1122,6	
	5	1955,3	1523,0	1203,7	
BPS3115YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	-15	-20	-25	
	45	1141	869	634	
	43	1197	916	674	
	40	1291	998	744	
	35	1449	1135	862	
	32	1529	1202	918	
	30	1570	1234	943	
	25	1607	1308	985	
	20	1794	1455	1117	
	15	1920	1570	1210	
	10	2046	1684	1304	
	5	2172	1799	1397	
BPS3224YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	-15	-20	-25	
	45	1878	1419	1037	
	43	1977	1502	1107	
	40	2143	1645	1230	
	35	2424	1887	1438	
	32	2565	2006	1537	
	30	2637	2062	1580	
	25	2702	2089	1644	
	20	3033	2382	1880	
	15	3256	2567	2043	
BPS3230YA11A	According to EN12900/EN13215				
	Qcool [W]	Tcoldroom			
	Tout	-15	-20	-25	
	45	2128	1631	1207	
	43	2217	1703	1264	
	40	2380	1841	1380	
	35	2684	2104	1607	
	32	2853	2249	1730	
	30	2948	2328	1795	
	25	3083	2423	1854	
	20	3414	2713	2107	
	15	3669	2927	2285	

4 Dimensional drawings

4 - 1 Dimensional Drawings

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Medium temperature		
No.	Name	Note
1	Controller	
2	Drain outlet pipe	O.D. 14 mm
3	Drain pan	
4	Cable for power supply	5m
5	Optional	
6	Cable for door switch	5m
7	Cable for light	2m

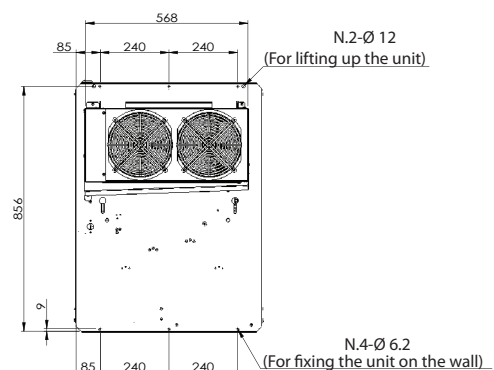
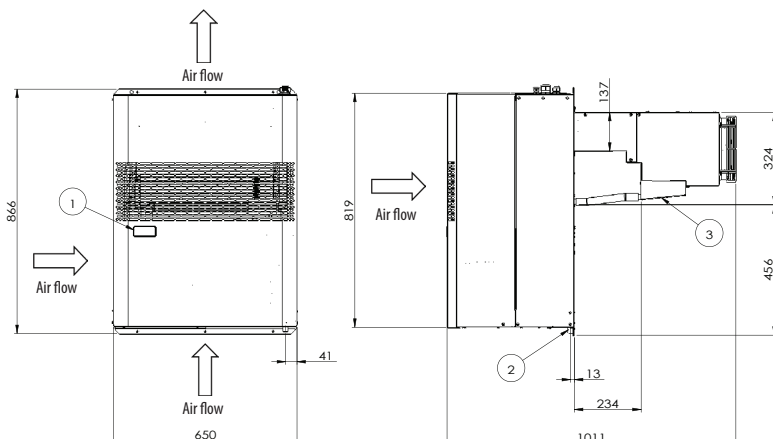
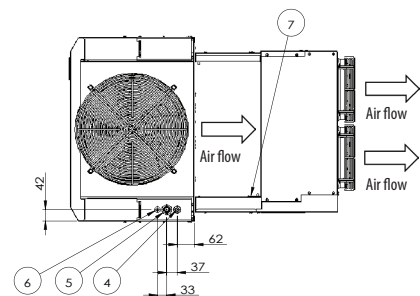


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Medium temperature		
No.	Name	Note
1	Controller	
2	Drain outlet pipe	O.D. 14 mm
3	Drain pan	
4	Optional	
5	Cable for power supply	5m
6	Cable for door switch	5m
7	Cable for light	2m

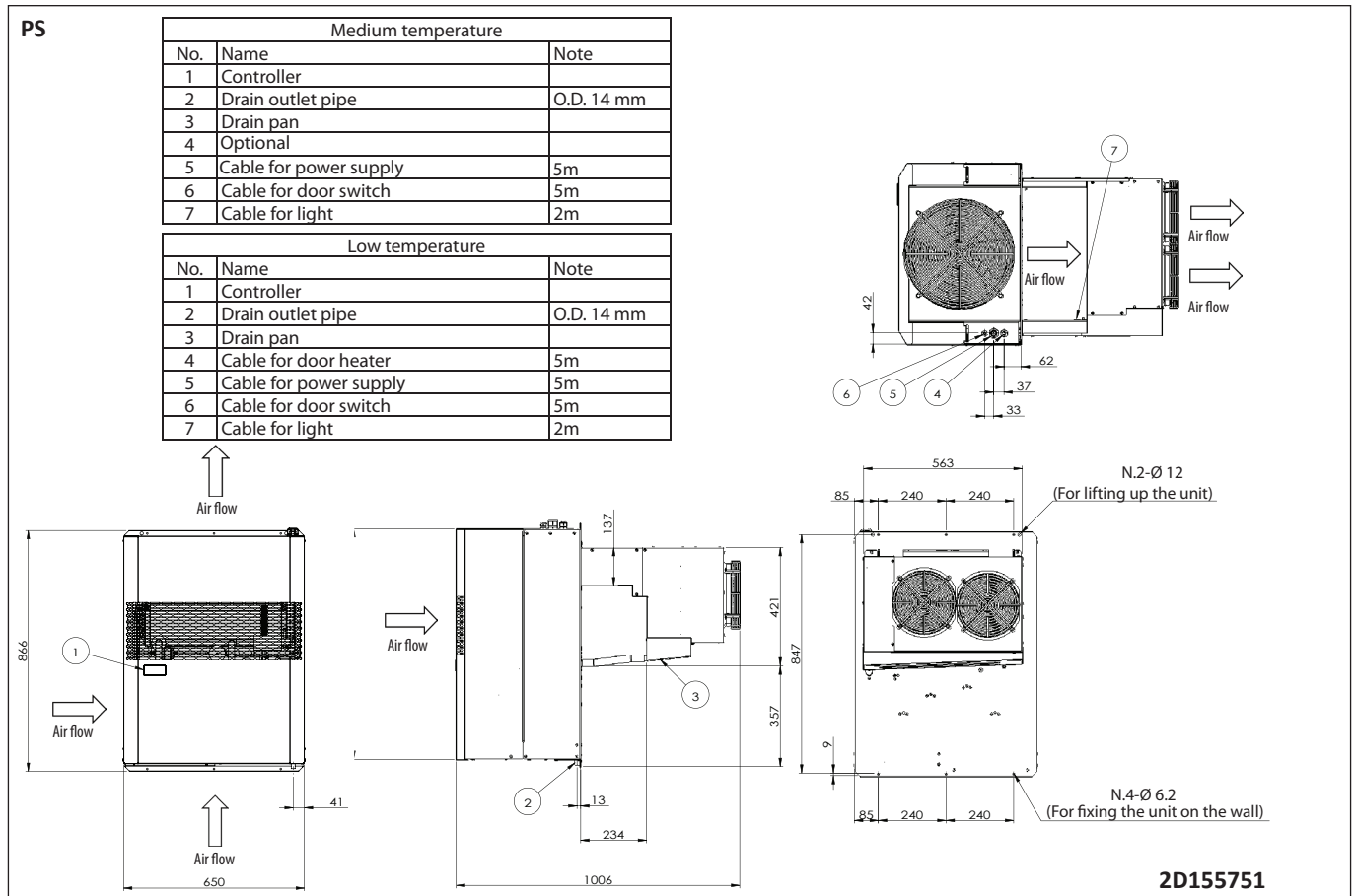
Low temperature		
No.	Name	Note
1	Controller	
2	Drain outlet pipe	O.D. 14 mm
3	Drain pan	
4	Cable for door heater	5m
5	Cable for power supply	5m
6	Cable for door switch	5m
7	Cable for light	2m



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4 Dimensional drawings

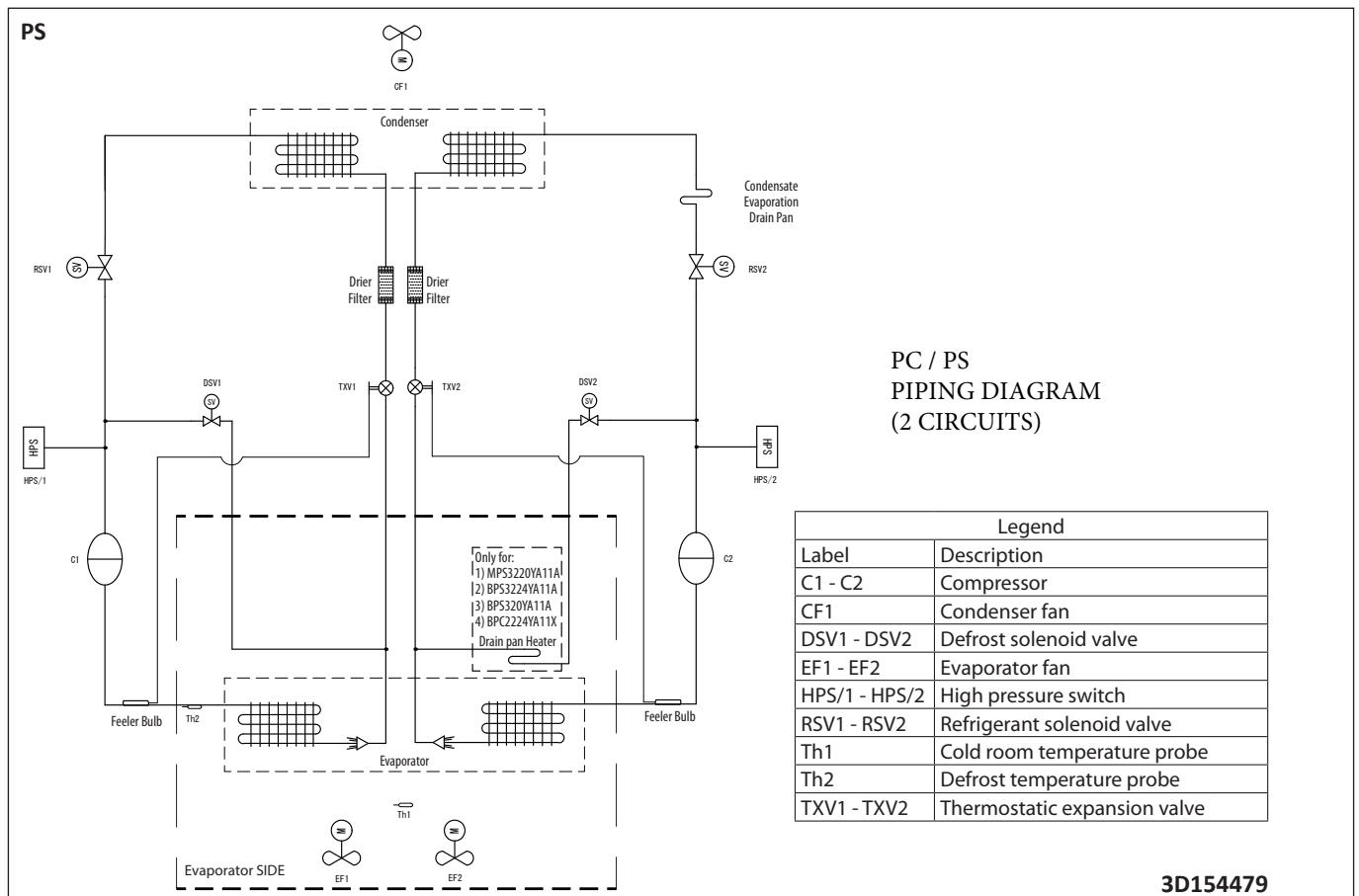
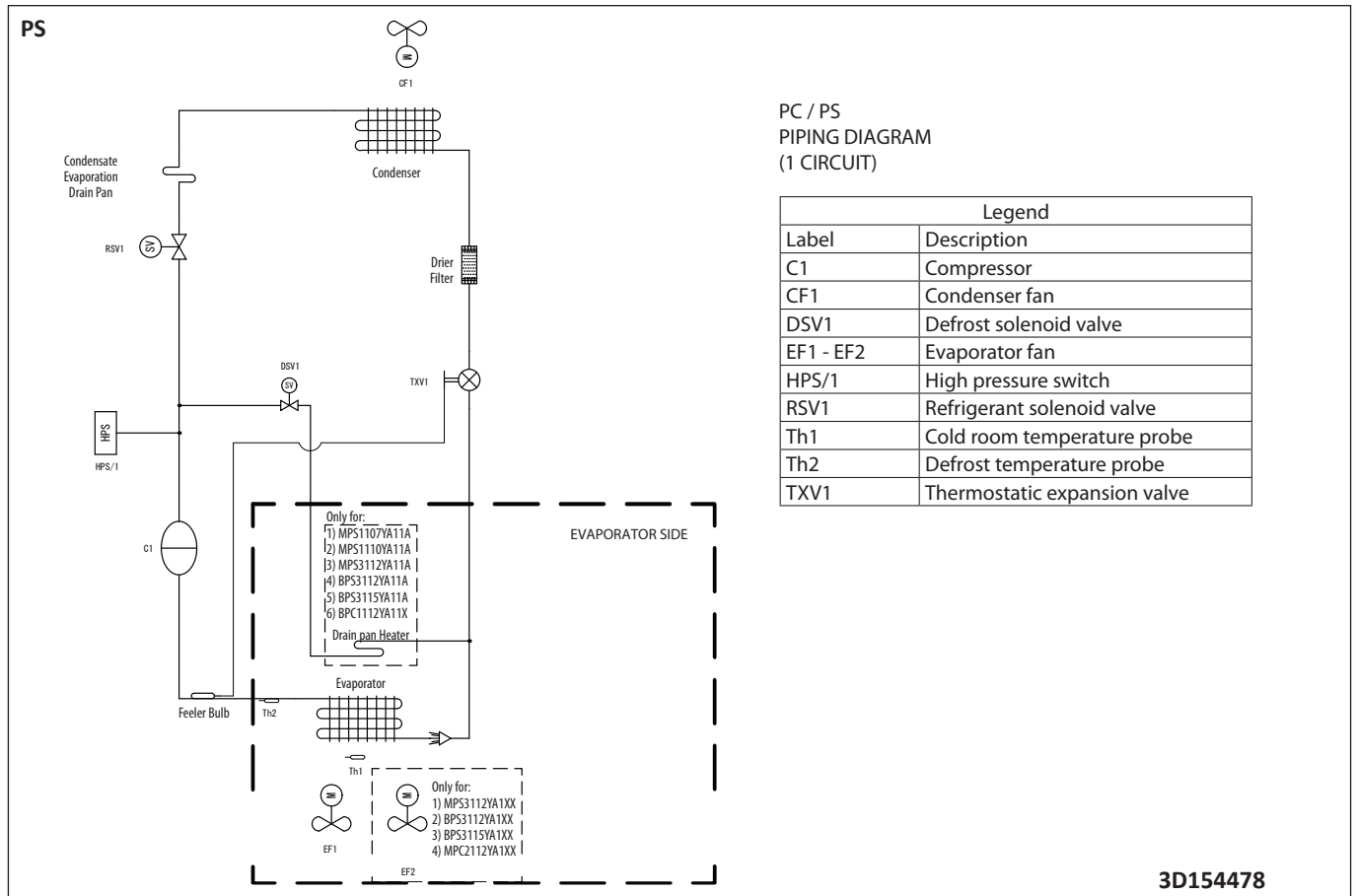
4 - 1 Dimensional Drawings



5 Piping diagrams

5 - 1 Piping Diagrams

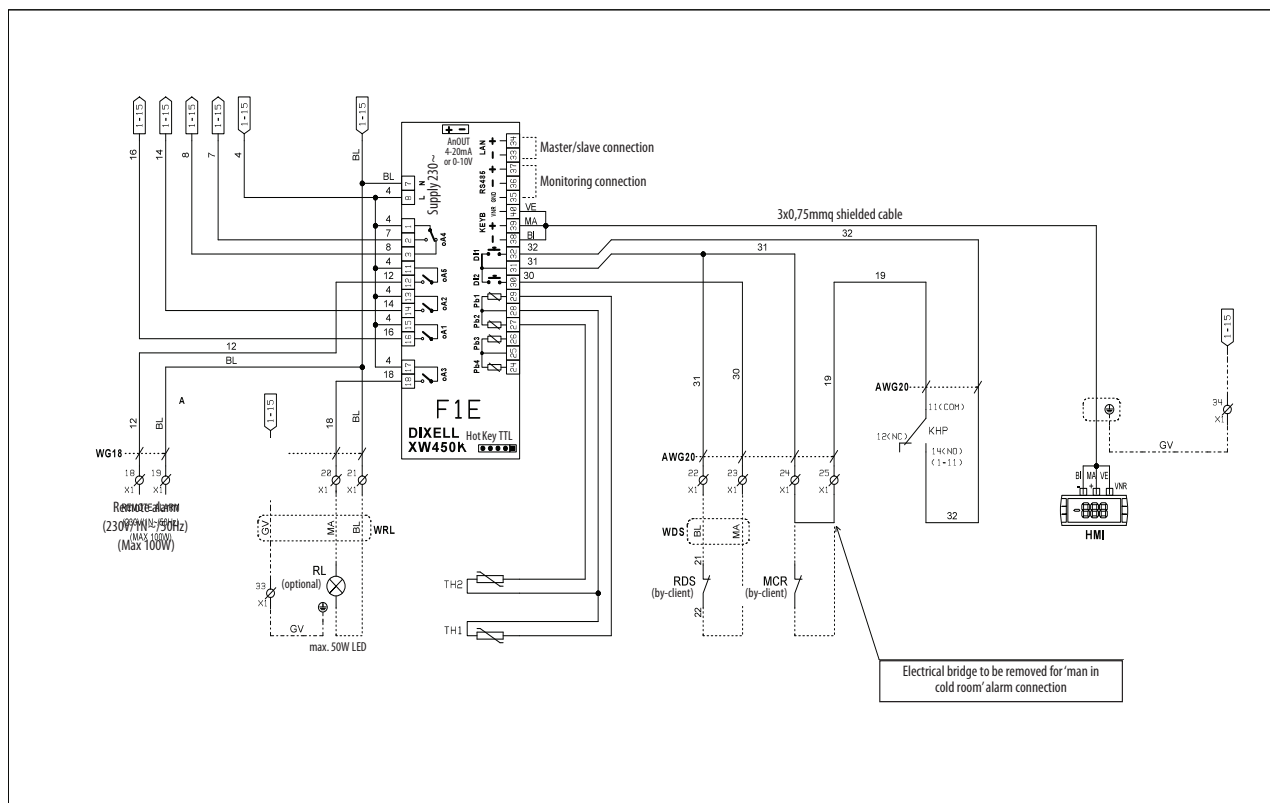
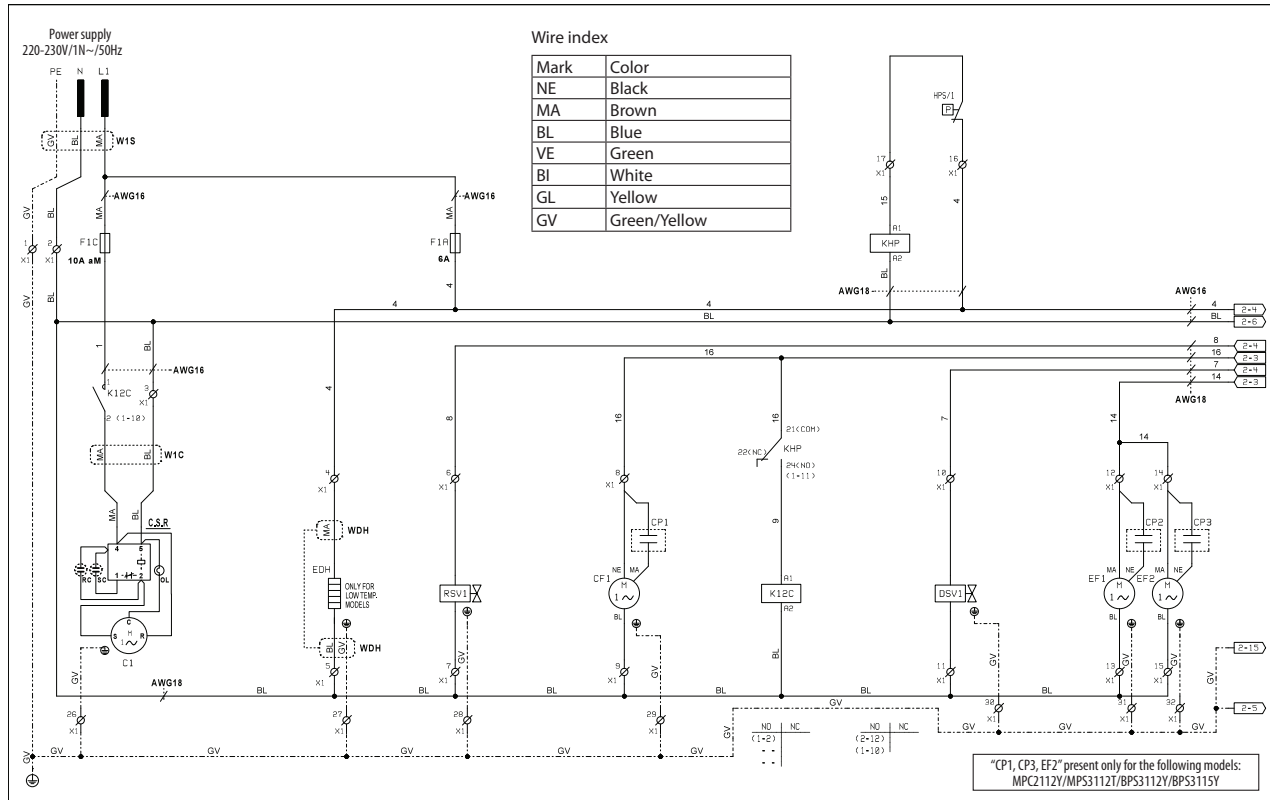
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6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

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6 Wiring diagrams

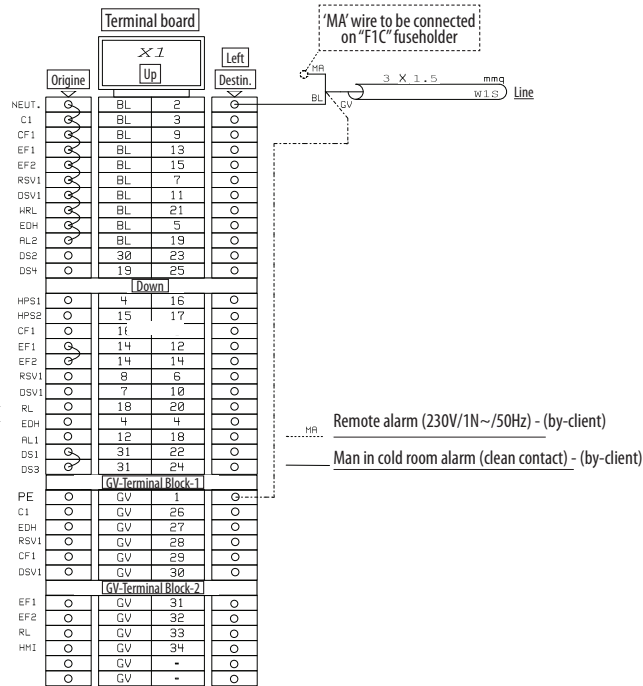
6 - 1 Wiring Diagrams - Single Phase

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6

Wire index

Mark	Color
NE	Black
MA	Brown
BL	Blue
VE	Green
BI	White
GL	Yellow
GV	Green/Yellow



Device	Description
C1	Compressor 1
C.S.R.	Compressor starting kit
CF1	Condenser fan 1
CP1	Condensor fan 1 capacitor
CP3	Evaporator fan 1 capacitor
CP4	Evaporator fan 2 capacitor
DSV1	Defrost solenoid valve 1
EDH	Door heater
EF1	Evaporator fan 1
EF2	Evaproatator fan 2
F1C	Compressor 1 fuse
F1A	Auxiliary fuse
F1E	Control unit
HPS/1	High pressure switch 1
HMI	Human machine interface
K12C	Compressor 1 relay
KHP	High pressure switch relay
MCR	Man in cold room alarm
RSV1	Refrig. solenoid valve 1
RL	Room light (optional)
RDS	Room door switch
TH1	Ambient probe

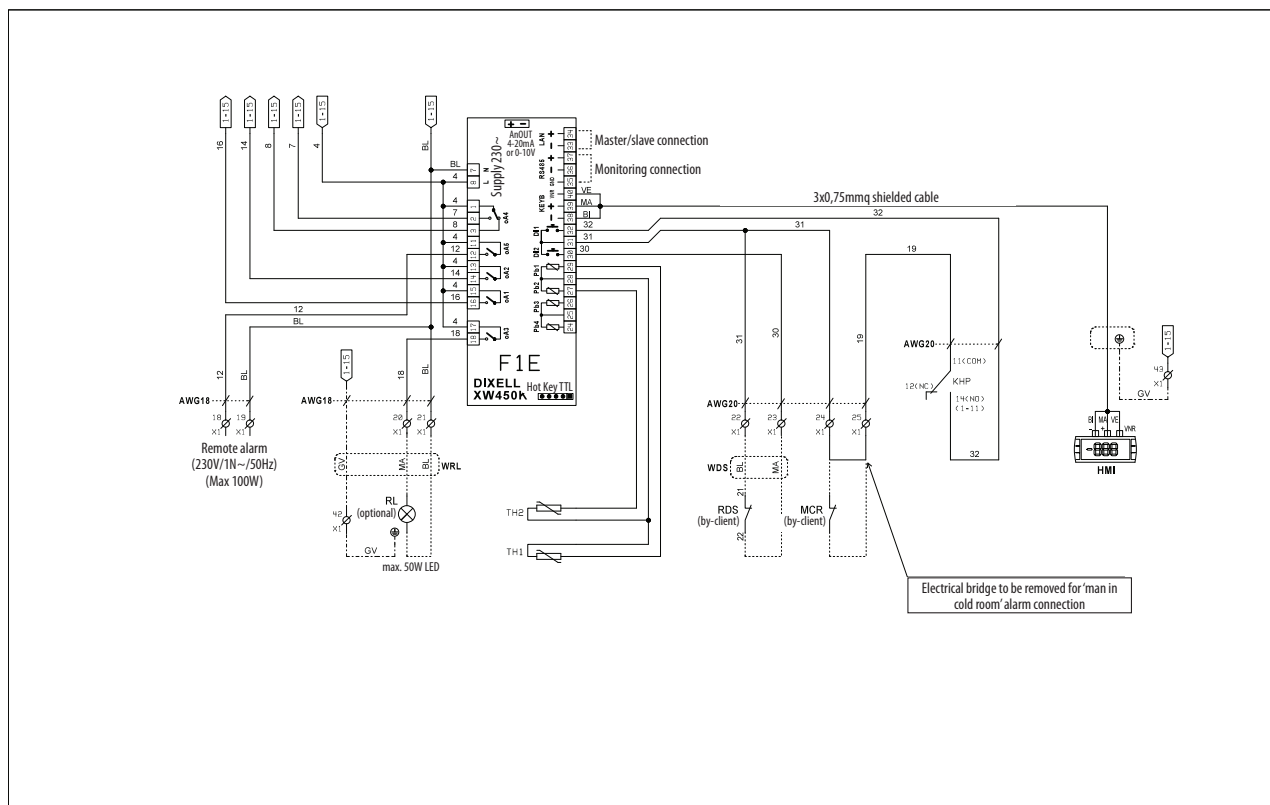
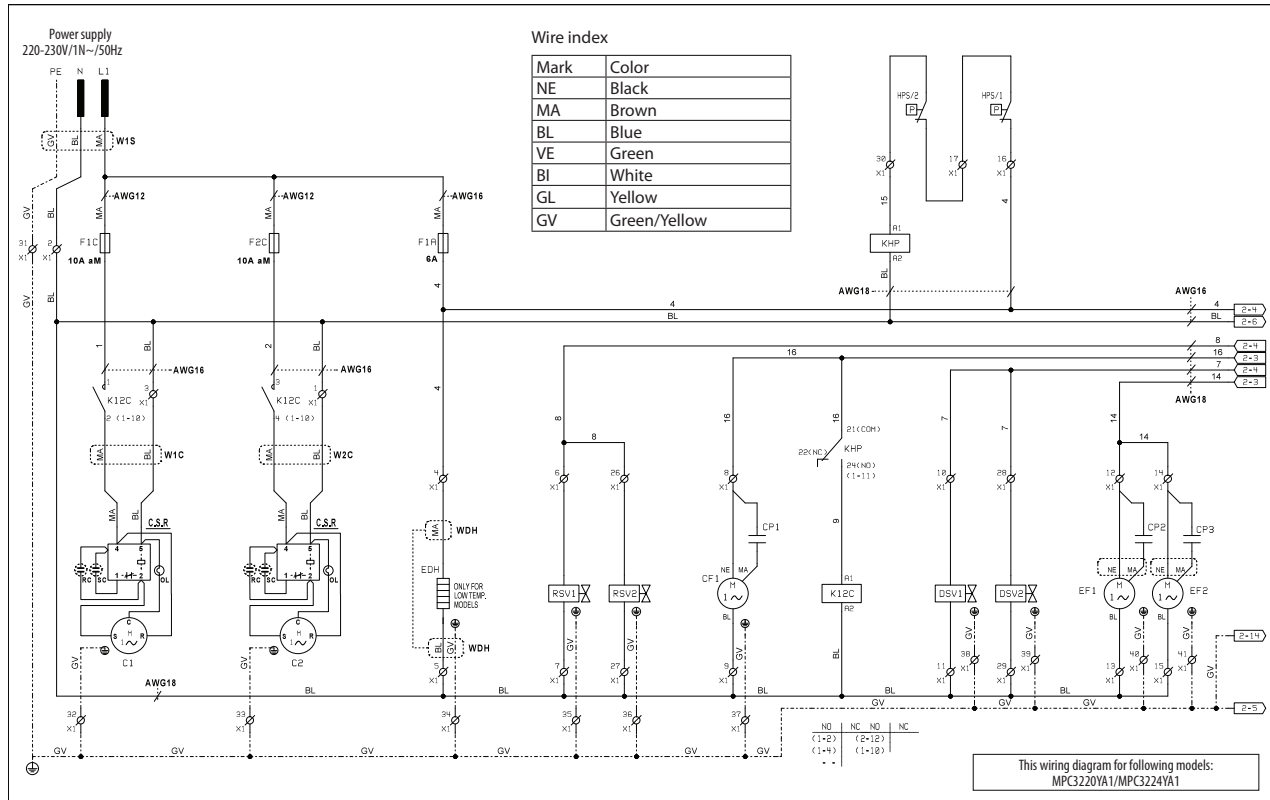
Device	Description
TH2	Defrost probe
TH3	Condenser probe
W1S	Supply cable
W1C	Compressor 1 cable
WRL	Room light cable
WDS	Door switch cable

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6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

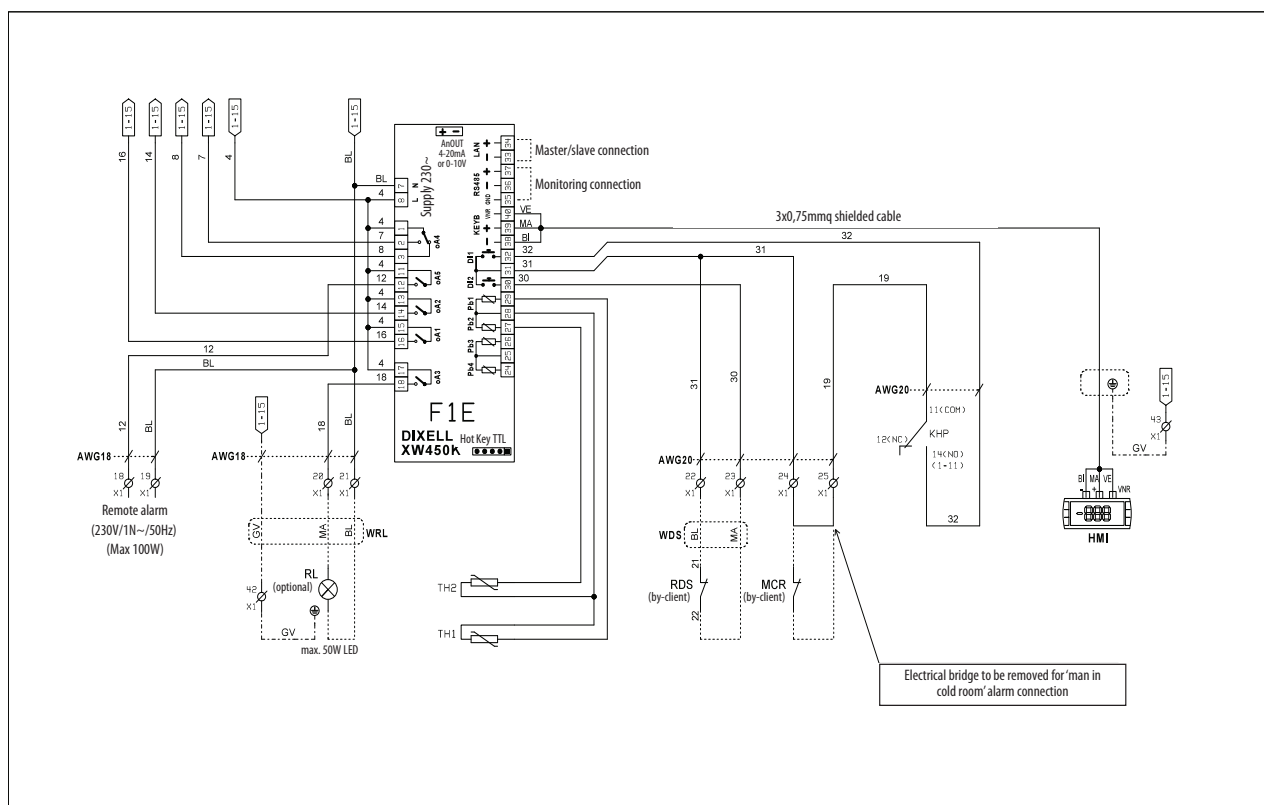
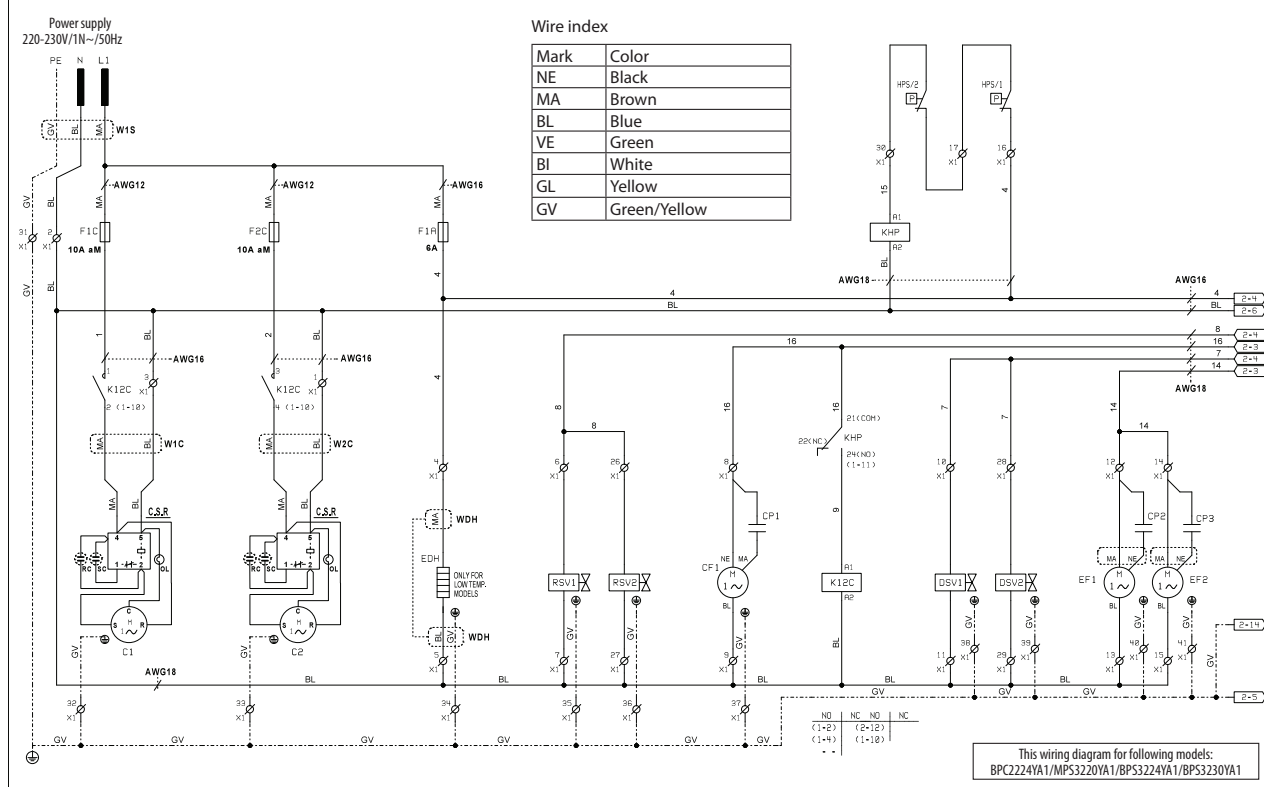
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6 - 1 Wiring Diagrams - Single Phase

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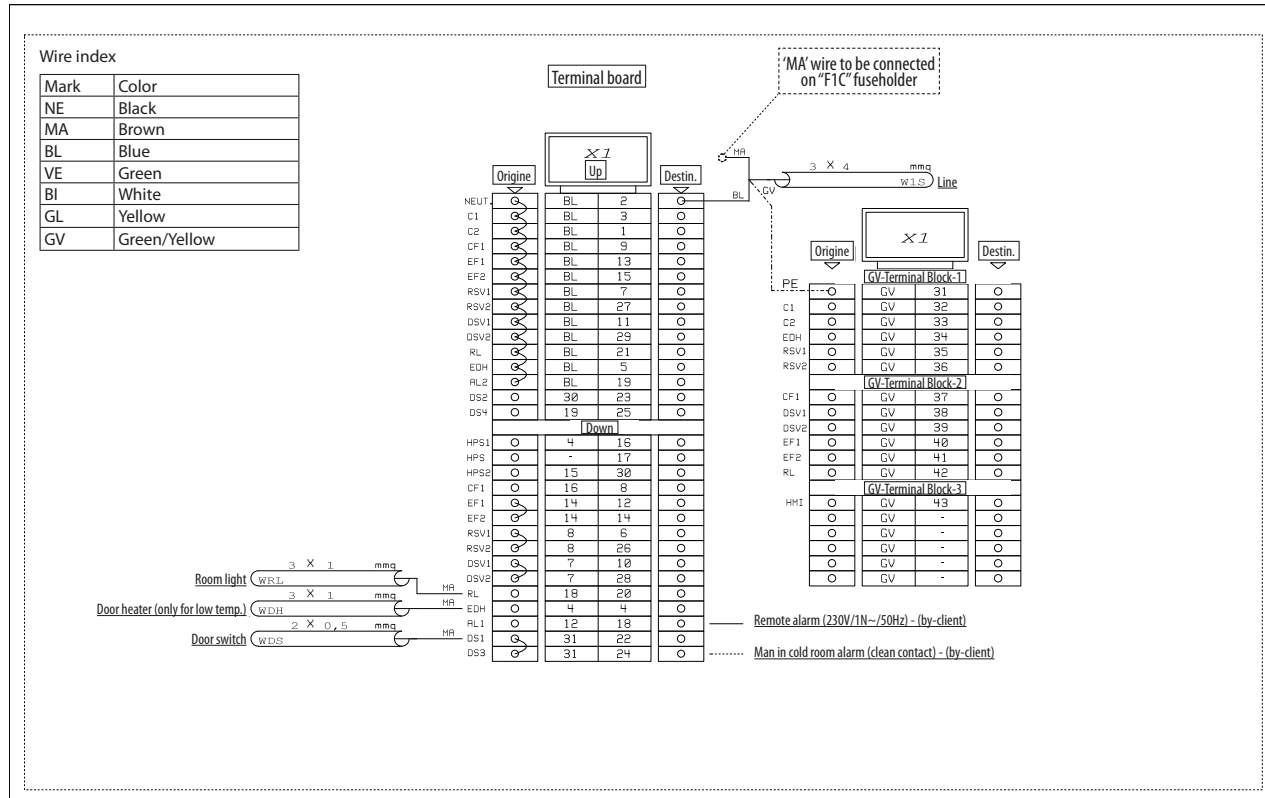


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6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

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Device	Description
C1	Compressor 1
C2	Compressor 2
C.S.R.	Compressor starting kit
CF1	Condenser fan 1
CP1	Condensor fan 1 capacitor
CP3	Evaporator fan 1 capacitor
CP4	Evaporator fan 2 capacitor
DSV1	Defrost solenoid valve 1
DSV2	Defrost solenoid valve 2
EDH	Door heater
EF1	Evaporator fan 1
EF2	Evaproator fan 2
F1C	Compressor 1 fuse
F2C	Compressor 2 fuse
F1A	Auxiliary fuse
F1E	Control unit
HPS/1	High pressure switch 1
HPS/2	High pressure switch 2
HMI	Human machine interface
K12C	Compressor 1-2 relay
KHP	High pressure switch relay
MCR	Man in cold room alarm

Device	Description
RSV1	Refrig. solenoid valve 1
RSV2	Refrig. solenoid valve 2
RL	Room light (optional)
RDS	Room door switch
TH1	Ambient probe
TH2	Defrost probe
TH3	Condenser probe
W1S	Supply cable
W1C	Compressor 1 cable
W2C	Compressor 2 cable
WRL	Room light cable
WDS	Door switch cable

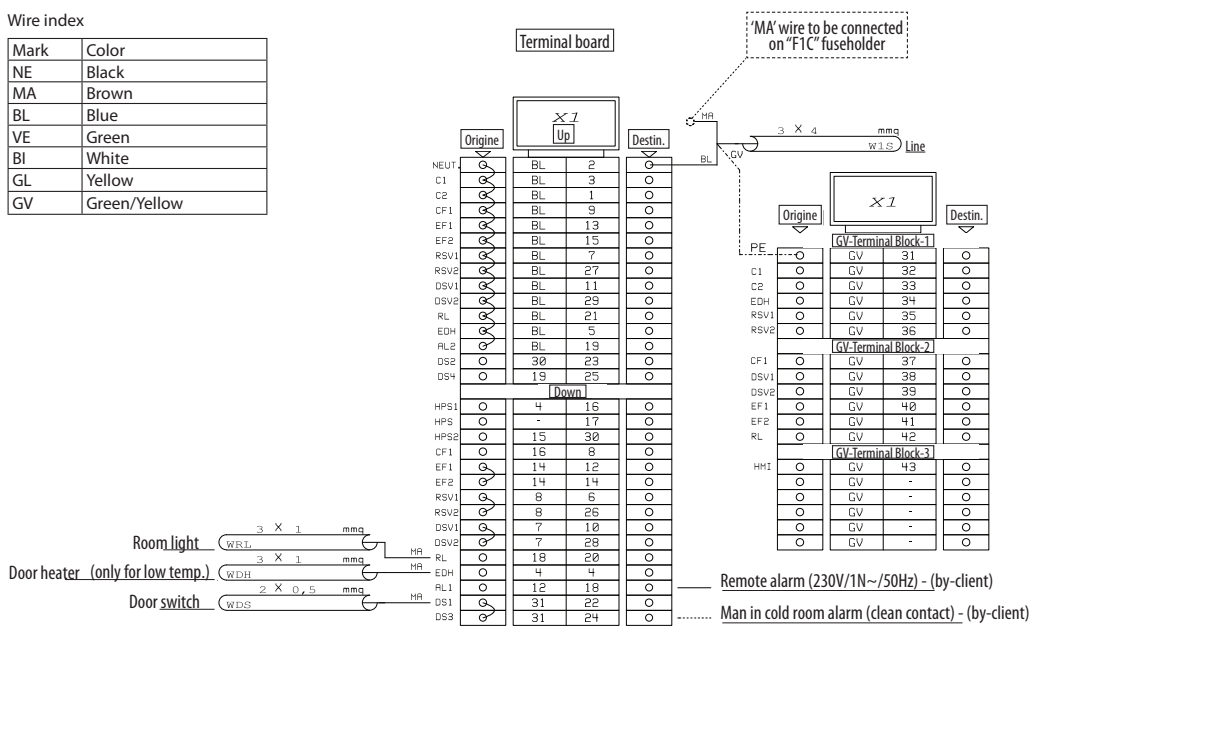
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6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

PS

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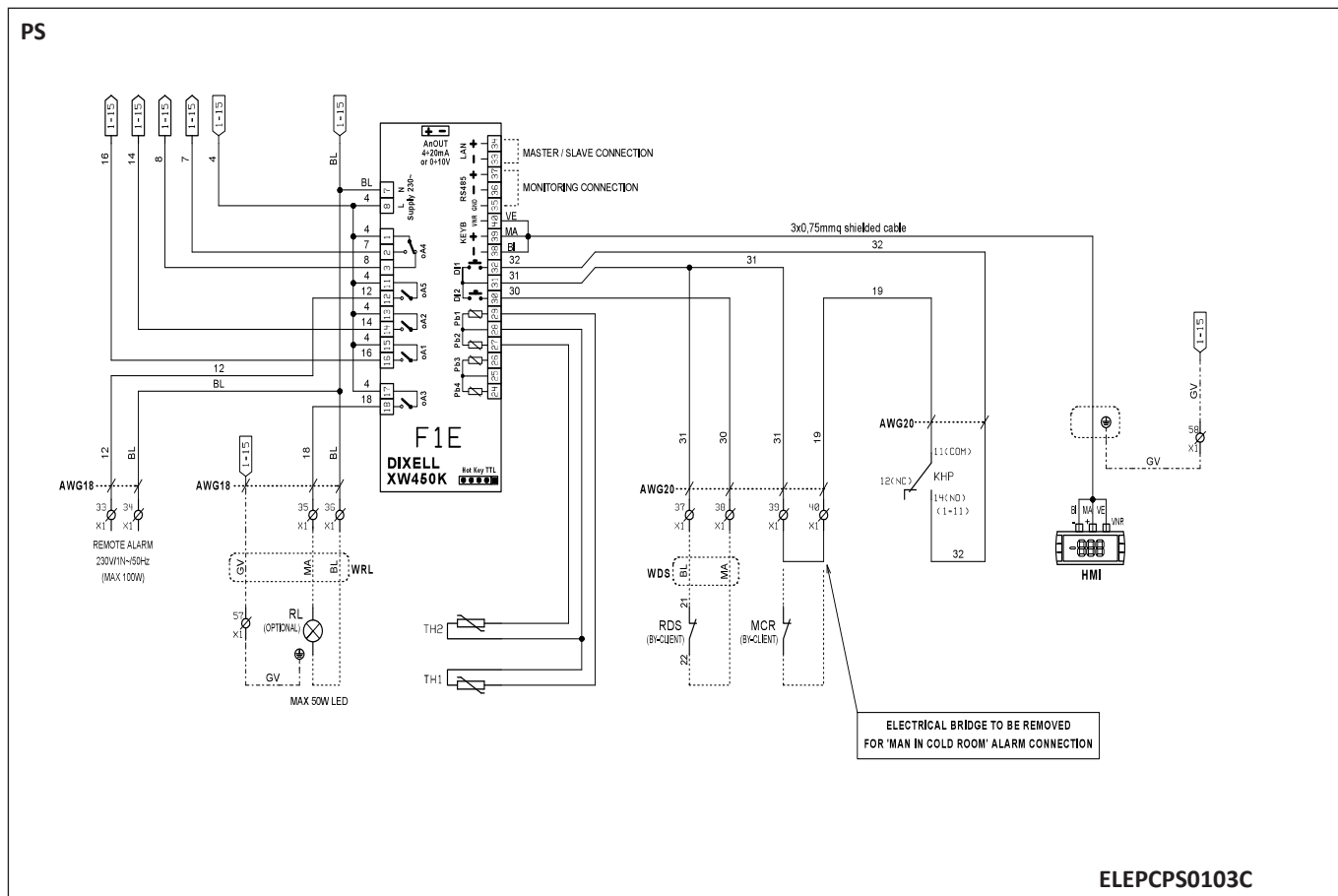
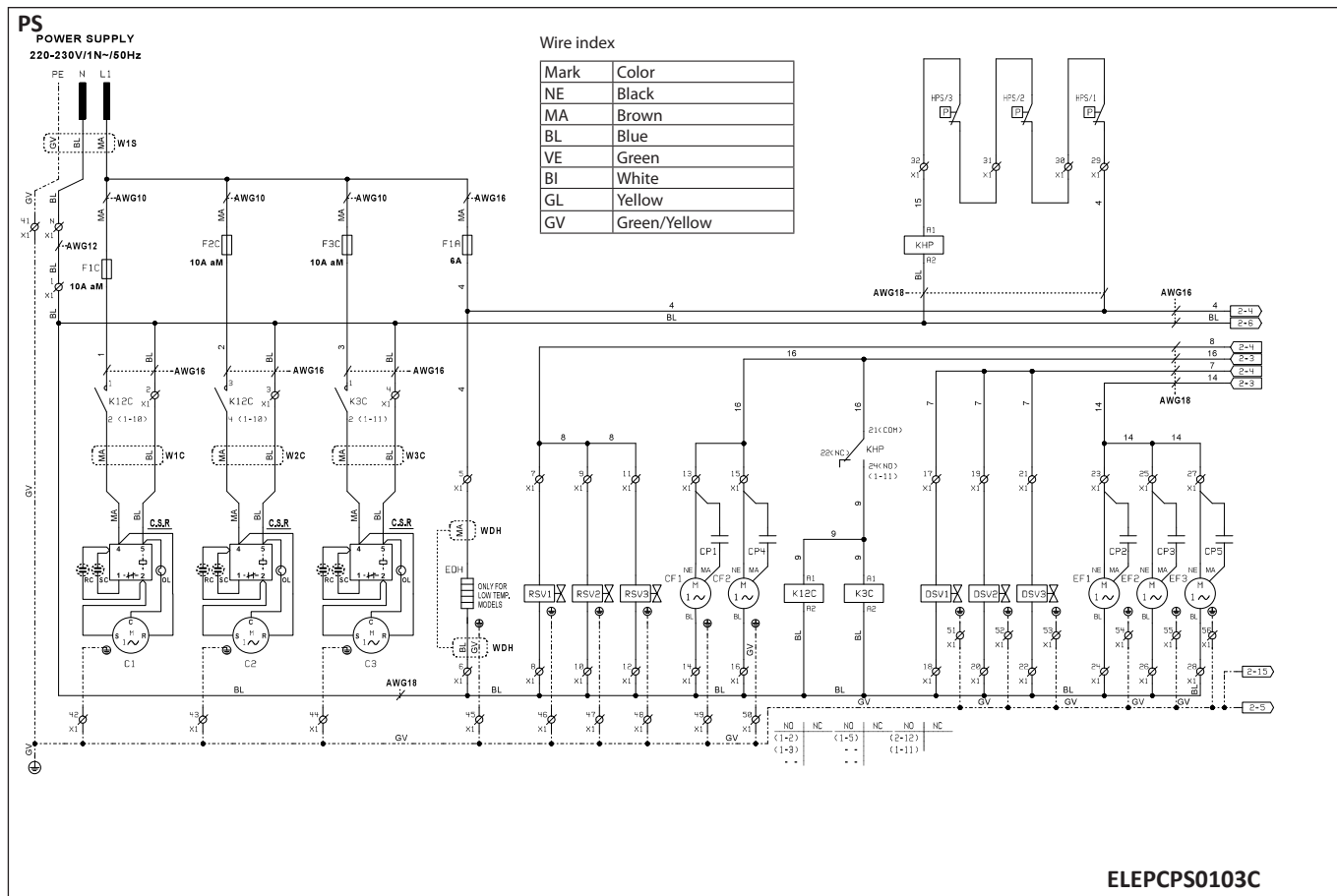
Device	Description
C1	Compressor 1
C2	Compressor 2
C.S.R.	Compressor starting kit
CF1	Condenser fan 1
CP1	Condensor fan 1 capacitor
CP3	Evaporator fan 1 capacitor
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DSV2	Defrost solenoid valve 2
EDH	Door heater
EF1	Evaporator fan 1
EF2	Evaproator fan 2
F1C	Compressor 1 fuse
F2C	Compressor 2 fuse
F1A	Auxiliary fuse
F1E	Control unit
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HPS/2	High pressure switch 2
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Device	Description
RSV1	Refrig. solenoid valve 1
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RL	Room light (optional)
RDS	Room door switch
TH1	Ambient probe
TH2	Defrost probe
TH3	Condenser probe
W1S	Supply cable
W1C	Compressor 1 cable
W2C	Compressor 2 cable
WRL	Room light cable
WDS	Door switch cable

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6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase



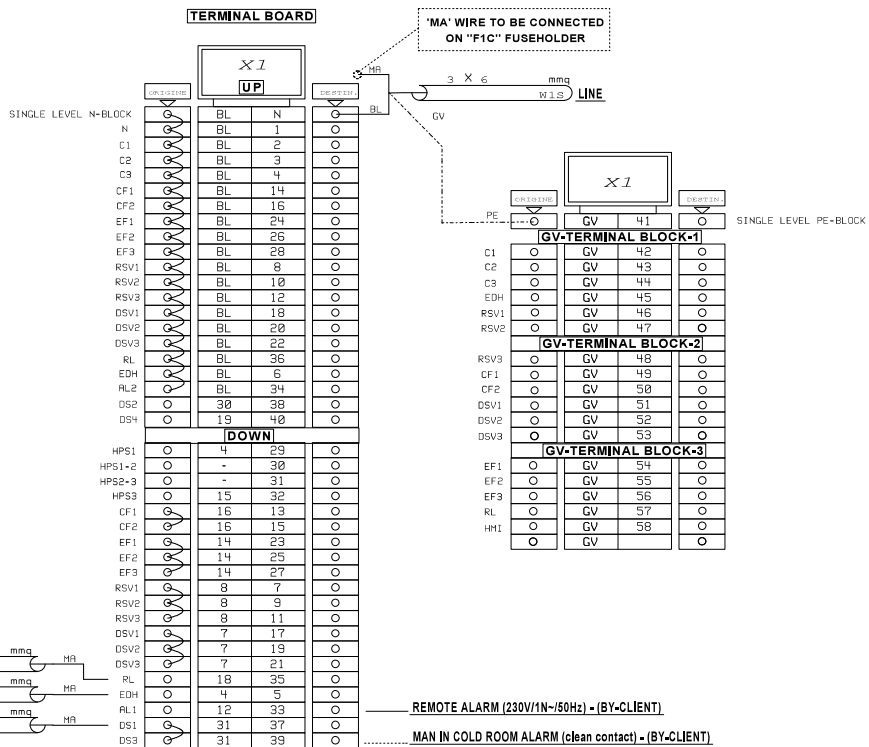
6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

PS

Wire index

Mark	Color
NE	Black
MA	Brown
BL	Blue
VE	Green
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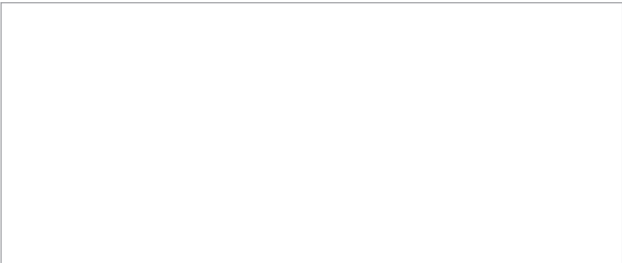
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DEVICE DISPOSIT.	DESCRIPTION / DESCRIZIONE
C1	COMPRESSOR 1 / COMPRESSORE 1
C2	COMPRESSOR 2 / COMPRESSORE 2
C3	COMPRESSOR 3 / COMPRESSORE 3
C.S.R.	COMPRESSOR STARTING KIT/KIT AVVIAMENTO COMPRESSORE
CF1	CONDENSER FAN 1 / VENTOLA CONDENSATORE 1
CF2	CONDENSER FAN 2 / VENTOLA CONDENSATORE 2
CP1	CONDENSER FAN1 CAPACITOR / CONDENSATORE VENTOLA 1 CAPACITA'
CP4	CONDENSER FAN2 CAPACITOR / CONDENSATORE VENTOLA 2 CAPACITA'
CP2	EVAPORATOR FAN1 CAPACITOR / EVAPORATORE VENTOLA 1 CAPACITA'
CP3	EVAPORATOR FAN2 CAPACITOR / EVAPORATORE VENTOLA 2 CAPACITA'
CP5	EVAPORATOR FAN3 CAPACITOR / EVAPORATORE VENTOLA 3 CAPACITA'
DSV1	DEFROST SOLENOID VALVE 1 / VALVOLA SOLENOIDE DI SABRINAMENTO 1
DSV2	DEFROST SOLENOID VALVE 2 / VALVOLA SOLENOIDE DI SABRINAMENTO 2
DSV3	DEFROST SOLENOID VALVE 3 / VALVOLA SOLENOIDE DI SABRINAMENTO 3
EDH	DOOR HEATER / RESISTENZA PORTA
EF1	EVAPORATOR FAN 1 / VENTOLA EVAPORATORE 1
EF2	EVAPORATOR FAN 2 / VENTOLA EVAPORATORE 2
EF3	EVAPORATOR FAN 3 / VENTOLA EVAPORATORE 3
F1C	COMPRESSOR1 FUSE / FUSIBILE COMPRESSORE1
F2C	COMPRESSOR2 FUSE / FUSIBILE COMPRESSORE2
F3C	COMPRESSOR3 FUSE / FUSIBILE COMPRESSORE3
F1A	AUXILIARY FUSE / FUSIBILE AUSILIARIO
F1E	CONTROL UNIT / UNITA' DI CONTROLLO
HPS/1	HIGH PRESSURE SWITCH 1 / PRESSOSTATO ALTA PRESSIONE 1
HPS/2	HIGH PRESSURE SWITCH 2 / PRESSOSTATO ALTA PRESSIONE 2
HPS/3	HIGH PRESSURE SWITCH 3 / PRESSOSTATO ALTA PRESSIONE 3

DEVICE DISPOSIT.	DESCRIPTION / DESCRIZIONE
HMI	HUMAN MACHINE INTERFACE
K12C	COMPRESSOR 1-2 RELAY / RELE' COMPRESSORE 1-2
K3C	COMPRESSOR 3 RELAY / RELE' COMPRESSORE 3
KHP	HIGH PRESSURE SWITCH RELAY / RELE' PRESSOSTATO ALTA PRESSIONE
MCR	MAN IN COLD ROOM ALARM / ALLARME UOMO IN CELLA
RL	ROOM LIGHT (OPTIONAL) / LUCE CELLA (OPZIONALE)
RDS	ROOM DOOR SWITCH / MICRO PORTA (BY-CLIENT)
RSV1	REFRIG. SOLENOID VALVE 1 / REFRIGER. VALVOLA SOLENOIDE 1
RSV2	REFRIG. SOLENOID VALVE 2 / REFRIGER. VALVOLA SOLENOIDE 2
RSV3	REFRIG. SOLENOID VALVE 3 / REFRIGER. VALVOLA SOLENOIDE 3
TH1	AMBIENT PROBE / SONDA AMBIENTE
TH2	DEFROST PROBE / SONDA SBRINAMENTO
WDS	DOOR SWITCH CABLE / CAVO MICRO PORTA
W1S	SUPPLY CABLE / CAVO DI ALIMENTAZIONE
W1C	COMPRESSOR 1 CABLE / CAVO COMPRESSORE 1
W2C	COMPRESSOR 2 CABLE / CAVO COMPRESSORE 2
W3C	COMPRESSOR 3 CABLE / CAVO COMPRESSORE 3
WRL	ROOM LIGHT CABLE / CAVO LUCE CELLA

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