Technical Data Compressor

SECOP

Model

Designation	**KLE4.0GFTX**	**220-240V/50Hz 1~**	**208-230V/60Hz 1~**	Sales code:	**106G5403**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R134a, R513A**
Oil viscosity	19,2cSt	Displacement	4cm³ / 0,24cu.in
Oil quantity	240cm³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	250g / 8,8oz		
Free gas volume comp.	1560cm³ / 52,7fl.oz		
Weight	8,9kg / 19,6lbs		
Motor protection	external		
Winding resistance main	13,1Ω (at 25°C)		
Winding resistance aux	25,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		
Additional note	Good robustness against liquid intake.		
	Ice-cube maker optimization - indirect suction intake.		

General - Configurations with KLE4.0GFTX

	Conf. 1	**Conf. 2**
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240V/50Hz	208-230V/60Hz
Number of phases	1	1
Voltage range	187-254V	198-253V
Approvals	VDE, CB, UL	VDE, CB, UL
Starting torque	HST	HST
Note	- / -	

Applications with KLE4.0GFTX

	Conf. 1	**Conf. 2**
Refrigerant	R134a	R134a
Application	LBP+MBP+HBP	LBP+MBP
System cooling	static	static
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Electrical data - Configurations with KLE4.0GFTX

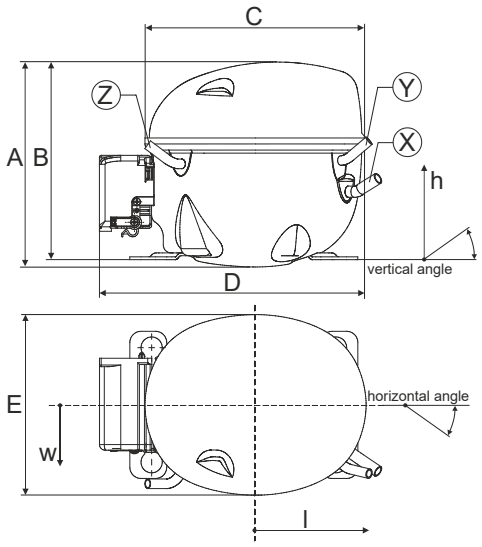
	Conf. 1	**Conf. 2**
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	80µF	80µF
LRA (locked rotor amps / 4s/ $U_{(N)}$)	10,5A	
RLA (rated load amps / 1s/ $U_{(N)}$)	1A	
Cut in current ($U_{(N)}$)	10,2A	

Model

Designation **KLE4.0GFTX** **220-240V/50Hz 1~ 208-230V/60Hz 1~** Sales code: **106G5403**

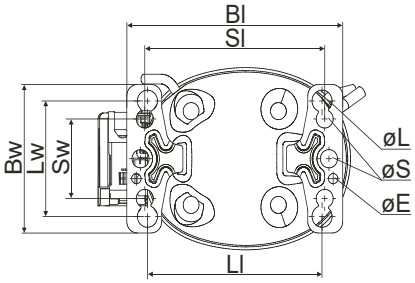
Compressor dimensions

Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	198mm / 7,8in
	D Length w. cover	238mm / 9,37in
	E Width	160mm / 6,3in



Connectors		**Suction X**	**Discharge Y**	**Process Z**
Diameter	[mm]	øi 6,16-6,24	øi 5,1-5,2	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,24-0,25	øi 0,2-0,2	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	119/73/59	117/107/66	-88/101/71
	[in]	4,7/2,9/2,3	4,6/4,2/2,6	-3,5/4/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

Compressor fixation

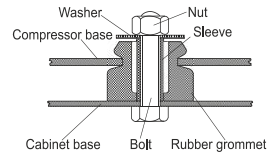


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38

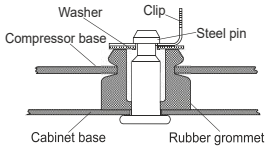
Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	
Bolt joint | ø1/4" | ø19mm	118-1949	
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

Suctiongas connector and Process connector can be switched (minor loss of cooling capacity)

Model

Designation					
	KLE4.0GFTX	**220-240V/50Hz**	**Conf. 1**	Sales code:	**106G5403**

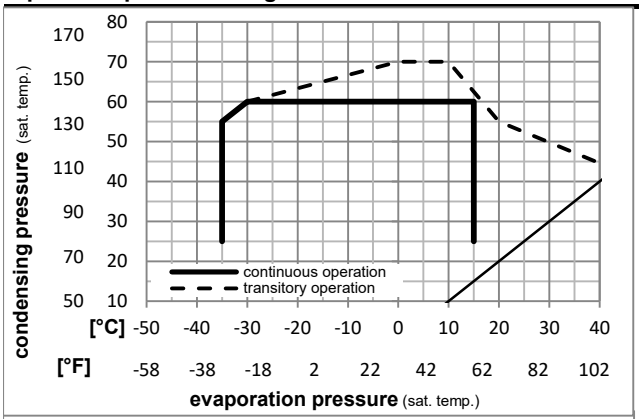
Configuration

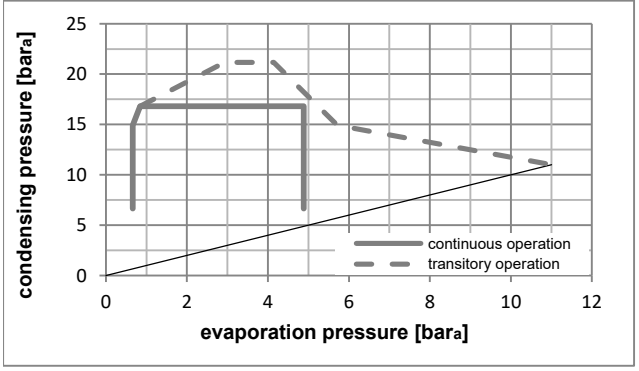
Motor configuration	CSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R134a
Application	LBP+MBP+HBP
Voltage range	187-254V
Starting torque	HST
Approvals	VDE
	CB
	UL

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static

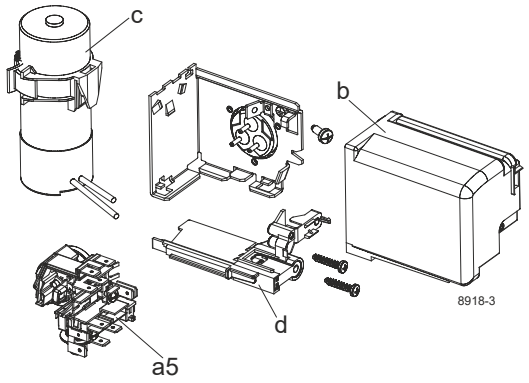
Operation pressure range

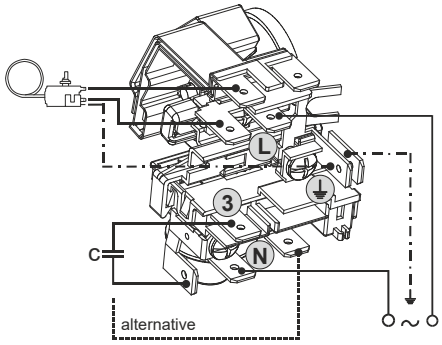




Electrical accessories / wiring diagram

CSIR





Components

a5	current relay (T1189/L6-S3)	117U7073
c	start capacitor (80µF, 6.3mm)	117U5001
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative components

b, d	100x cover + clamp + screws(5VA)	103N2060
b, d	cover + clamp + screws(5VA) in bag	103N1060

Model

Designation **KLE4.0GFTX** **220-240V/50Hz** **Conf. 1** Sales code: **106G5403**

Optimization + standard conditions R134a, 220V/50Hz, CSIR, static, VDE, CB, UL

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	101,4	346	87,3	1,14	3,90	0,98	88,8	1,15	1,97	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	221,7	757	190,8	1,77	6,03	1,52	125,5	1,23	4,84	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	398,3	1360	342,8	2,58	8,81	2,22	154,4	1,31	8,84	**ASHRAE HBP**
[°F]	45	130	95	115										
[°C]	-35	40	20	40	46,0	157	39,6	0,72	2,47	0,62	63,5	1,10	1,01	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	191,3	653	164,6	1,74	5,93	1,49	110,1	1,20	4,48	**EN12900 MBP**
[°F]	14	113	68	113										
[°C]	5	50	20	50	339,4	1159	292,1	2,36	8,07	2,03	143,6	1,28	8,55	**EN12900 HBP**
[°F]	41	122	68	122										

Performance tables R134a, 220V/50Hz, CSIR, static, VDE, CB, UL

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	43,4	148	37,4	0,69	2,34	0,59	63,3	1,10	0,94
cond. pressure	-25	-13	86,8	296	74,7	1,05	3,57	0,90	82,9	1,14	1,88
pc= 45/113	-15	5	154,2	527	132,7	1,52	5,20	1,31	101,2	1,18	3,36
return gas temp.	-10	14	198,5	678	170,8	1,80	6,15	1,55	110,1	1,20	4,34
RGT= 32/90	0	32	310,9	1062	267,6	2,43	8,31	2,09	127,7	1,24	6,88
liquid temp	5	41	380,4	1299	327,4	2,78	9,51	2,40	136,6	1,26	8,47
Tliq= 45/113	15	59	548,6	1874	472,1	3,54	12,09	3,05	154,9	1,31	12,43
[°C / °F]	-35	-31	35,4	121	30,5	0,59	2,01	0,51	60,0	1,10	0,84
cond. pressure	-25	-13	73,8	252	63,5	0,87	2,97	0,75	84,9	1,15	1,76
pc= 55/131	-15	5	132,4	452	114,0	1,23	4,19	1,06	107,8	1,19	3,19
return gas temp	-10	14	170,8	583	147,0	1,44	4,91	1,24	118,8	1,22	4,13
RGT= 32/90	0	32	268,7	918	231,3	1,92	6,55	1,65	140,0	1,27	6,57
liquid temp	5	41	329,4	1125	283,5	2,19	7,48	1,88	150,5	1,30	8,12
Tliq= 55/131	15	59	477,3	1630	410,8	2,78	9,50	2,40	171,5	1,36	11,99

Model

Designation					
	KLE4.0GFTX	**208-230V/60Hz**	**Conf. 2**	Sales code:	**106G5403**

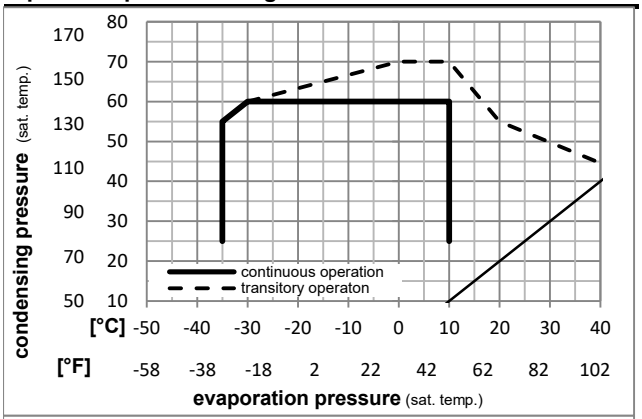
Configuration

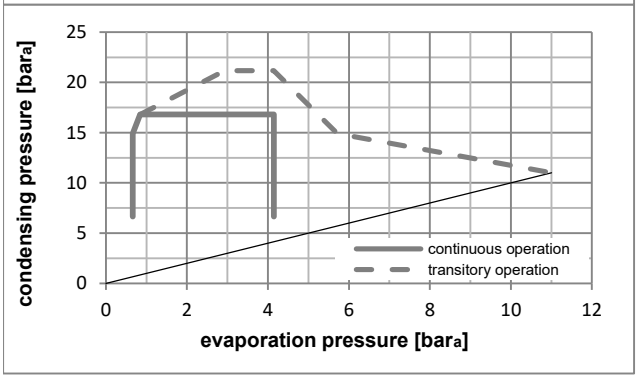
Motor configuration	CSIR
Power supply (nominal)	208-230V/60Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	198-253V
Starting torque	HST
Approvals	VDE
	CB
	UL

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static

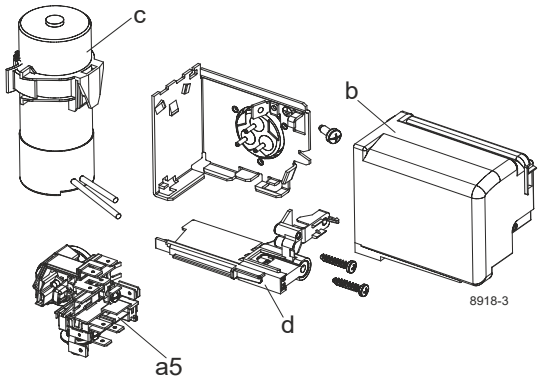
Operation pressure range

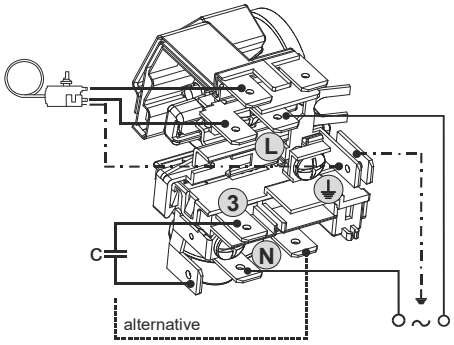




Electrical accessories / wiring diagram

CSIR





Components

a5	current relay (T1189/L6-S3)	117U7073
c	start capacitor (80µF, 6.3mm)	117U5001
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative components

b, d	100x cover + clamp + screws(5VA)	103N2060
b, d	cover + clamp + screws(5VA) in bag	103N1060

Model

Designation **KLE4.0GFTX** **208-230V/60Hz** **Conf. 2** Sales code: **106G5403**

Optimization + standard conditions R134a, 230V/60Hz, CSIR, static, VDE, CB, UL

	pe	pc	RGT	Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	122,9	420	105,8	1,20	4,10	1,03	102,4	1,10	2,39	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	261,5	893	225,1	1,81	6,20	1,56	144,1	1,19	5,71	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	465,1	1589	400,3	2,58	8,82	2,22	180,1	1,28	10,32	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	55,1	188	47,4	0,76	2,59	0,65	72,7	1,06	1,21	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	224,4	767	193,2	1,76	6,00	1,51	127,8	1,15	5,25	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	395,7	1351	340,6	2,34	7,98	2,01	169,3	1,25	9,97	EN12900 HBP
[°F]	41	122	68	122										

Performance tables R134a, 230V/60Hz, CSIR, static, VDE, CB, UL

	pe [°C]	pe [°F]	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	P1 [W]	I [A]	m [kg/h]
[°C / °F]	-35	-31	50,9	174	43,8	0,71	2,42	0,61	71,8	1,06	1,10
cond. pressure	-25	-13	104,5	357	90,0	1,10	3,77	0,95	94,7	1,09	2,26
pc= 45/113	-15	5	182,4	623	157,0	1,56	5,33	1,34	116,8	1,13	3,98
return gas temp.	-10	14	232,9	795	200,4	1,82	6,22	1,57	127,8	1,15	5,10
RGT= 32/90	0	32	361,9	1236	311,5	2,40	8,21	2,07	150,6	1,20	8,00
liquid temp	5	41	442,5	1511	380,8	2,72	9,29	2,34	162,6	1,23	9,85
Tliq= 45/113	15	59	640,8	2188	551,5	3,40	11,60	2,92	188,7	1,30	14,51
[°C / °F]	-35	-31	38,9	133	33,5	0,54	1,85	0,47	71,7	1,06	0,93
cond. pressure	-25	-13	89,4	305	77,0	0,91	3,10	0,78	98,4	1,10	2,14
pc= 55/131	-15	5	158,6	542	136,5	1,28	4,38	1,10	123,7	1,14	3,82
return gas temp	-10	14	202,7	692	174,5	1,49	5,08	1,28	136,2	1,17	4,90
RGT= 32/90	0	32	314,9	1075	271,0	1,95	6,66	1,68	161,6	1,23	7,70
liquid temp	5	41	385,0	1315	331,3	2,20	7,53	1,90	174,7	1,26	9,49
Tliq= 55/131	15	59	558,0	1906	480,3	2,76	9,41	2,37	202,5	1,34	14,02