

Model

Designation	KLE4.8GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5507
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	4,8cm ³ / 0,29cu.in
Oil quantity	240cm ³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	250g / 8,8oz		
Free gas volume comp.	1545cm ³ / 52,2fl.oz		
Weight	9,3kg / 20,5lbs		
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 KLE4.8GFTX

	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, CCC, UL	VDE, CB, CCC, UL
Starting torque	HST	HST
Note	Housing with dip-tray fixture (omega bracket).	

Applications with KLE4.8GFTX

	Conf. 1	Conf. 2
Refrigerant	R134a	R134a
Application	LBP+MBP+HBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

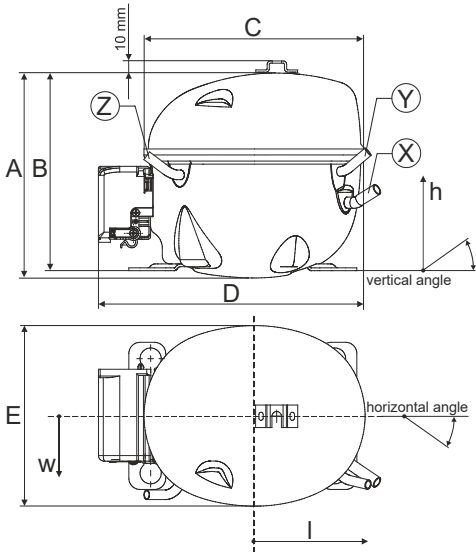
Electrical data - Configurations with KLE4.8GFTX

	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	

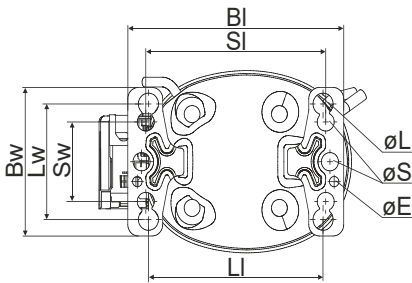
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Compressor dimensions

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	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	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

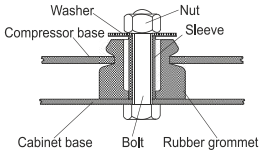


Compressor fixation

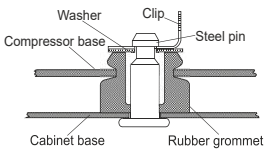


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes		
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes		
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

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

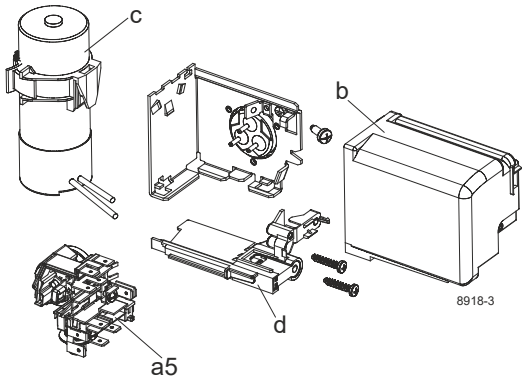
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Configuration

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
	CCC
	UL

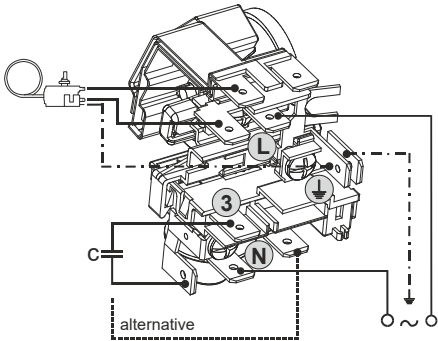
Electrical accessories / wiring diagram

CSIR

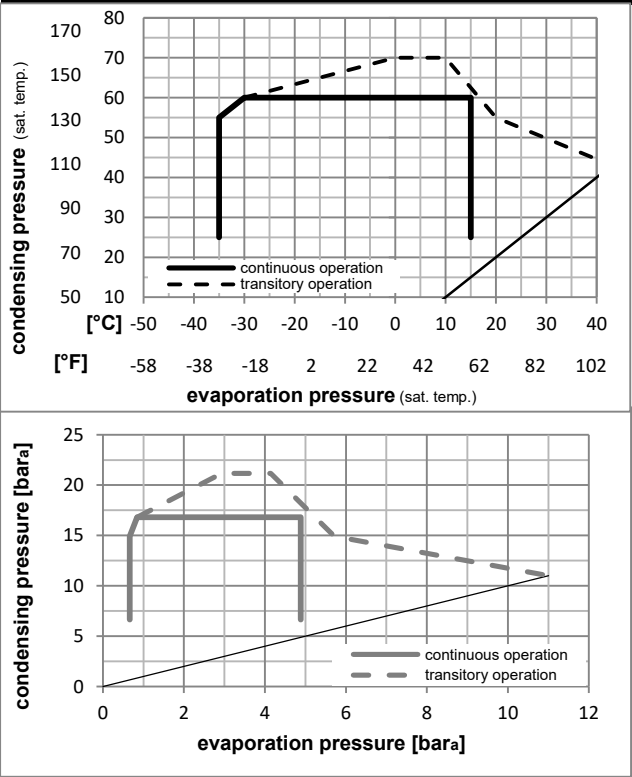


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



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 **KLE4.8GFTX** **220-240V/50Hz** Conf. 1 Sales code: **106G5507**

Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, CCC, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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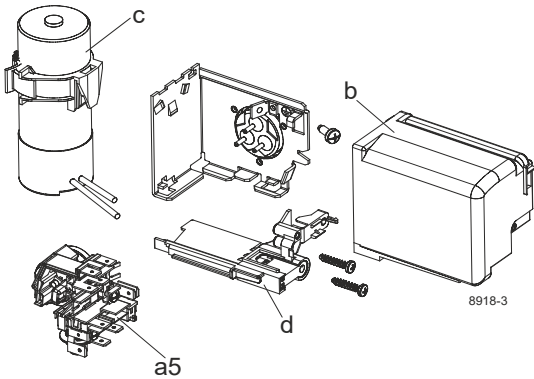
Performance tables

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, CCC, 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]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	60,4	206	52,0	0,83	2,85	0,72	72,4	1,12	1,30	72,4	1,12	1,30	72,4	1,12	1,30	72,4	1,12	1,30
cond. pressure	-25	-13	111,8	382	96,2	1,17	4,00	1,01	95,5	1,17	2,42	95,5	1,17	2,42	95,5	1,17	2,42	95,5	1,17	2,42
pc= 45/113	-15	5	195,3	667	168,1	1,65	5,65	1,42	118,1	1,22	4,26	118,1	1,22	4,26	118,1	1,22	4,26	118,1	1,22	4,26
return gas temp.	-10	14	250,7	856	215,8	1,94	6,62	1,67	129,3	1,24	5,49	129,3	1,24	5,49	129,3	1,24	5,49	129,3	1,24	5,49
RGT= 32/90	0	32	392,4	1340	337,7	2,59	8,83	2,23	151,7	1,30	8,68	151,7	1,30	8,68	151,7	1,30	8,68	151,7	1,30	8,68
liquid temp	5	41	479,9	1639	413,0	2,95	10,06	2,53	163,0	1,33	10,69	163,0	1,33	10,69	163,0	1,33	10,69	163,0	1,33	10,69
Tliq= 45/113	15	59	691,7	2362	595,3	3,72	12,72	3,20	185,8	1,41	15,67	185,8	1,41	15,67	185,8	1,41	15,67	185,8	1,41	15,67
[°C / °F]	-35	-31	48,8	167	42,0	0,72	2,46	0,62	67,8	1,11	1,16	67,8	1,11	1,16	67,8	1,11	1,16	67,8	1,11	1,16
cond. pressure	-25	-13	94,7	324	81,5	0,97	3,30	0,83	97,9	1,17	2,27	97,9	1,17	2,27	97,9	1,17	2,27	97,9	1,17	2,27
pc= 55/131	-15	5	167,6	572	144,3	1,32	4,52	1,14	126,6	1,24	4,04	126,6	1,24	4,04	126,6	1,24	4,04	126,6	1,24	4,04
return gas temp	-10	14	215,8	737	185,7	1,54	5,25	1,32	140,4	1,27	5,22	140,4	1,27	5,22	140,4	1,27	5,22	140,4	1,27	5,22
RGT= 32/90	0	32	339,1	1158	291,8	2,03	6,92	1,74	167,3	1,35	8,29	167,3	1,35	8,29	167,3	1,35	8,29	167,3	1,35	8,29
liquid temp	5	41	415,5	1419	357,6	2,30	7,87	1,98	180,4	1,39	10,24	180,4	1,39	10,24	180,4	1,39	10,24	180,4	1,39	10,24
Tliq= 55/131	15	59	601,1	2053	517,3	2,92	9,96	2,51	206,1	1,49	15,10	206,1	1,49	15,10	206,1	1,49	15,10	206,1	1,49	15,10

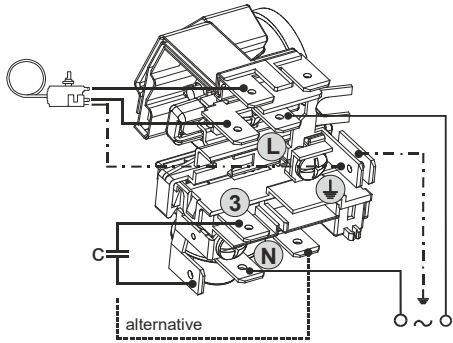
Model					
Designation	KLE4.8GFTX	208-230V/60Hz	Conf. 2	Sales code:	106G5507

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

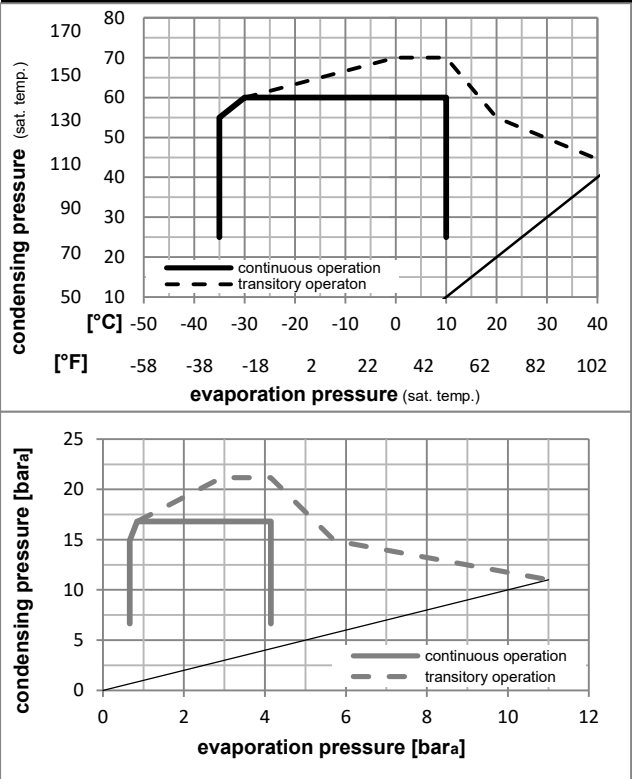


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



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 **KLE4.8GFTX** **208-230V/60Hz** Conf. 2 Sales code: **106G5507**

Optimization + standard conditions

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, CCC, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	ṁ		
[°C]	-23	54	32	32	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°F]	-10	130	90	90	154,4	527	132,9	1,30	4,44	1,12	118,6	1,13	3,00	ASHRAE LBP
[°C]	-7	54	35	46	330,5	1129	284,4	1,92	6,55	1,65	172,2	1,26	7,21	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	587,3	2006	505,4	2,71	9,25	2,33	216,9	1,39	13,03	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	81,6	279	70,2	0,94	3,22	0,81	86,7	1,08	1,79	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	281,8	963	242,6	1,87	6,39	1,61	150,6	1,20	6,60	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	500,8	1710	431,0	2,45	8,37	2,11	204,3	1,35	12,62	EN12900 HBP
[°F]	41	122	68	122										

Performance tables

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, CCC, 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	76,1	260	65,5	0,89	3,05	0,77	85,3	1,07	1,64
cond. pressure	-25	-13	131,2	448	112,9	1,21	4,13	1,04	108,4	1,11	2,84
pc= 45/113	-15	5	227,5	777	195,8	1,68	5,72	1,44	135,8	1,17	4,96
return gas temp.	-10	14	292,4	999	251,6	1,94	6,63	1,67	150,6	1,20	6,40
RGT= 32/90	0	32	458,1	1565	394,3	2,53	8,64	2,18	181,0	1,28	10,13
liquid temp	5	41	560,0	1912	481,9	2,85	9,75	2,46	196,2	1,33	12,47
Tliq= 45/113	15	59	804,3	2747	692,2	3,57	12,20	3,07	225,2	1,42	18,22
[°C / °F]	-35	-31	61,0	208	52,5	0,71	2,43	0,61	85,9	1,08	1,45
cond. pressure	-25	-13	113,1	386	97,4	0,99	3,39	0,85	114,1	1,12	2,71
pc= 55/131	-15	5	198,8	679	171,1	1,37	4,66	1,18	145,5	1,19	4,78
return gas temp	-10	14	255,4	872	219,8	1,58	5,39	1,36	161,9	1,23	6,18
RGT= 32/90	0	32	398,9	1362	343,3	2,05	7,00	1,76	194,7	1,32	9,76
liquid temp	5	41	486,8	1662	418,9	2,31	7,89	1,99	210,7	1,37	12,00
Tliq= 55/131	15	59	697,4	2382	600,2	2,90	9,90	2,50	240,5	1,48	17,52