

Model

Designation	KLE4.8GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5518
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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	Electrical equipment is included and pre-assembled to compressor.	

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	

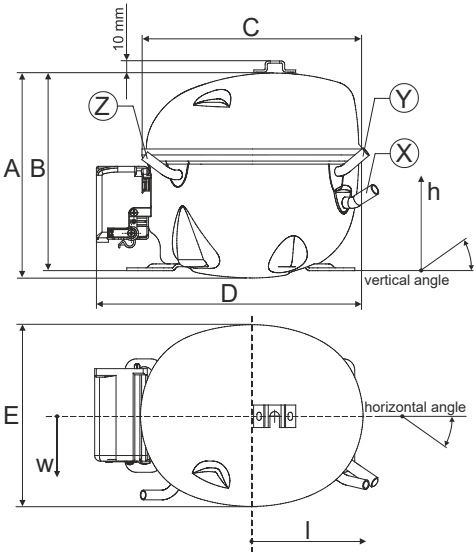
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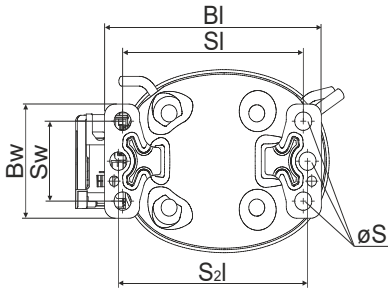
Compressor dimensions

Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	235,1mm / 9,26in
	E Width	151mm / 5,94in

Connectors	Suction X	Discharge Y	Process 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	114/107/63	-87/101/71
	[in] 4,7/2,9/2,3	4,5/4,2/2,5	-3,4/4/2,8
Straight tube l.	[mm] 14	14	14
	[in] 0,5	0,5	0,5

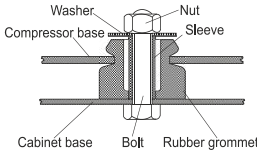


Compressor fixation

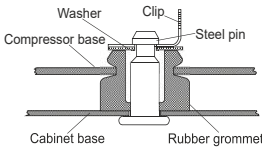


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

Bolt joint



Snap-on



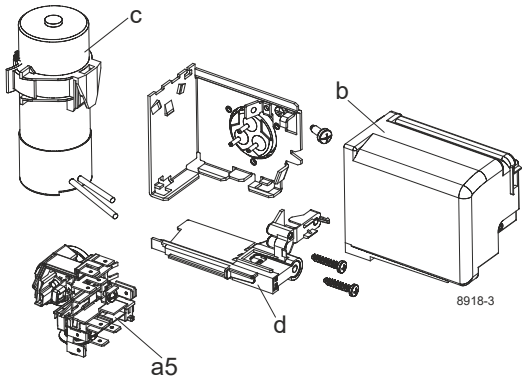
Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Application notes

- Housing with dip-tray fixture (omega bracket).
- Compressor with low height version.
- Provision for PE Grounding is located at the PE Stamp on the compressor

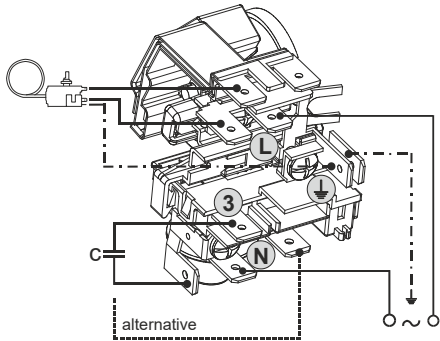
Model				
Designation	KLE4.8GFTX	220-240V/50Hz	Conf. 1	Sales code: 106G5518

Configuration		Electrical accessories / wiring diagram	
Motor configuration	CSIR	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		

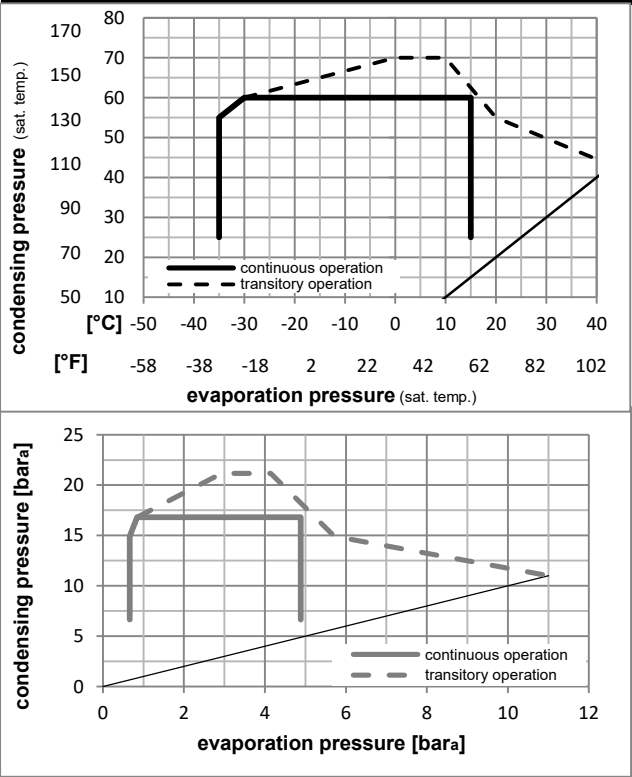


Ambient/ machine room temperatures minimum /maximum

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 (incl. and pre. assembl.)

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

Alternative comp.

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: **106G5518**

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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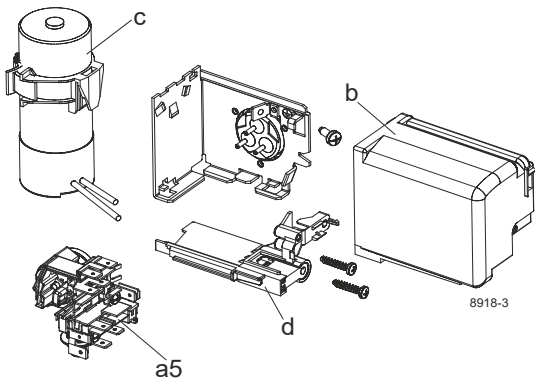
Performance tables

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

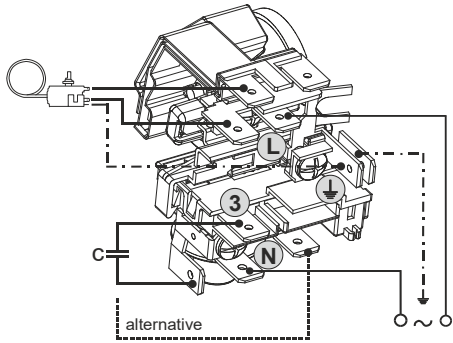
Model					
Designation	KLE4.8GFTX	208-230V/60Hz	Conf. 2	Sales code:	106G5518

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				

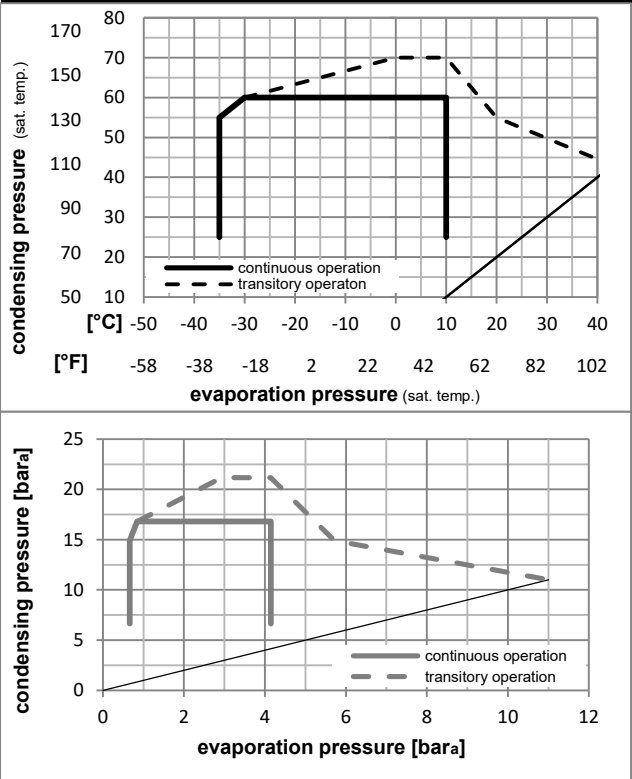


Ambient/ machine room temperatures minimum /maximum

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 (incl. and pre. assembl.)

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

Alternative comp.

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:	106G5518
Optimization + standard conditions			R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, CCC, UL		

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