

Model

Designation	KLE4.8GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5503
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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	- / -	

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	

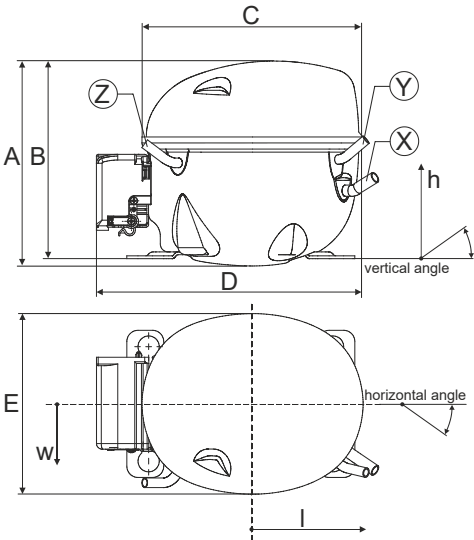
Model

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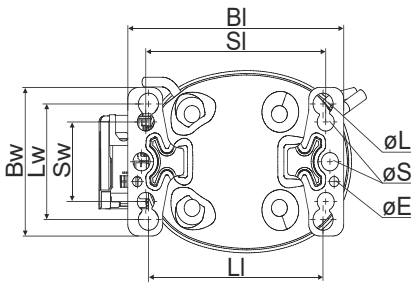
Compressor dimensions

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 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	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

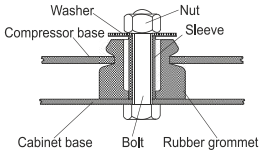


Compressor fixation

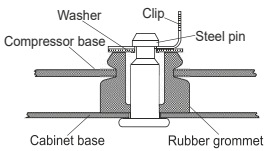


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes		
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes		
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

Bolt joint



Snap-on



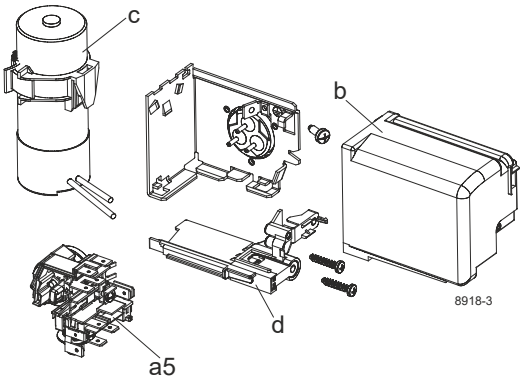
Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

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)

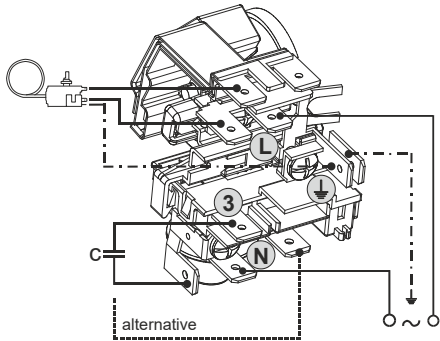
Model					
Designation	KLE4.8GFTX	220-240V/50Hz	Conf. 1	Sales code:	106G5503

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				

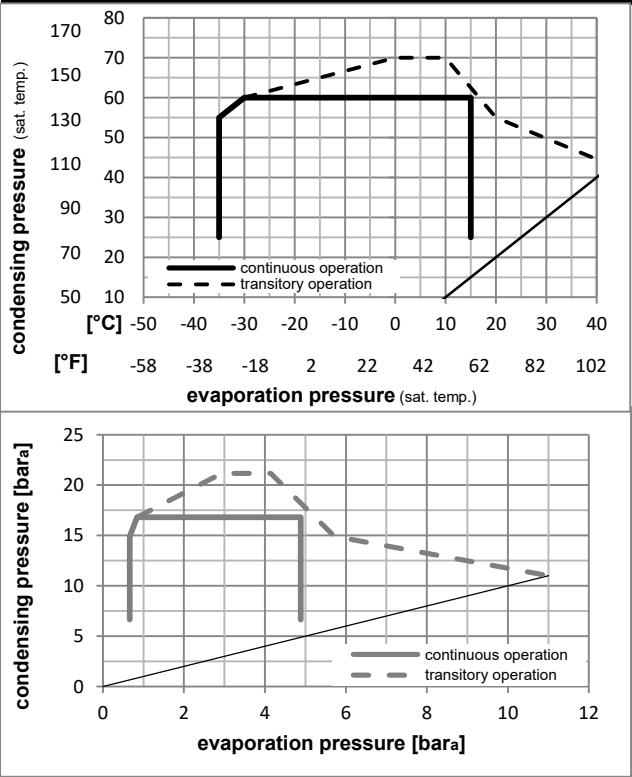


Ambient/ machine room temperatures minimum /maximum

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		
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: **106G5503**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption				ASHRAE LBP
Return gas temp.					Current consumption						ASHRAE MBP				
Liquid temp.					Ref. mass flow							ASHRAE HBP			
Cooling capacity					COP								EN12900 LBP		
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		EN12900 MBP	
[°C]										[W]	[A]	[kg/h]	EN12900 HBP		
-23	54	32	32	129,7	443	111,6	1,26	4,31	1,09	102,8	1,18	2,52			
[°F]	-10	130	90	90											
-7	54	35	46	279,9	956	240,9	1,88	6,42	1,62	148,9	1,29	6,11			
[°C]															
[°F]	20	130	95	115											
7,2	54	35	46	502,3	1715	432,3	2,71	9,26	2,33	185,2	1,41	11,14			
[°C]															
[°F]	45	130	95	115											
-35	40	20	40	64,4	220	55,4	0,88	3,01	0,76	73,0	1,12	1,41			
[°C]															
[°F]	-31	104	68	104											
-10	45	20	45	241,7	825	208,0	1,87	6,38	1,61	129,3	1,24	5,66			
[°C]															
[°F]	14	113	68	113											
5	50	20	50	428,2	1462	368,5	2,49	8,51	2,15	171,8	1,36	10,79			
[°C]															
[°F]	41	122	68	122											

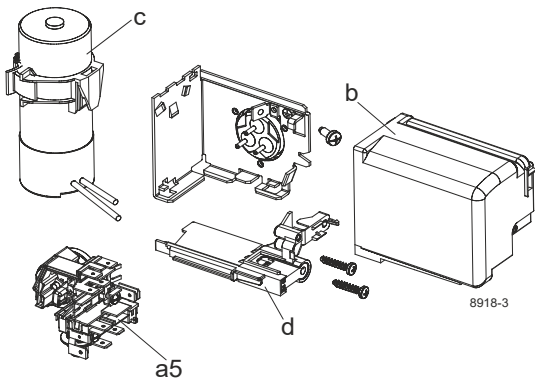
Performance tables

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									
cond. pressure	-25	-13	111,8	382	96,2	1,17	4,00	1,01	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									
return gas temp.	-10	14	250,7	856	215,8	1,94	6,62	1,67	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									
liquid temp	5	41	479,9	1639	413,0	2,95	10,06	2,53	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									
[°C / °F]	-35	-31	48,8	167	42,0	0,72	2,46	0,62	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									
pc= 55/131	-15	5	167,6	572	144,3	1,32	4,52	1,14	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									
RGT= 32/90	0	32	339,1	1158	291,8	2,03	6,92	1,74	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									
Tliq= 55/131	15	59	601,1	2053	517,3	2,92	9,96	2,51	206,1	1,49	15,10									

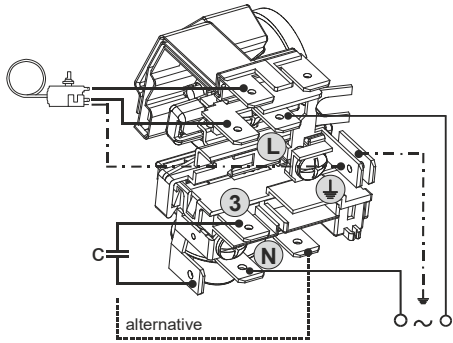
Model				
Designation	KLE4.8GFTX	208-230V/60Hz	Conf. 2	Sales code: 106G5503

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		

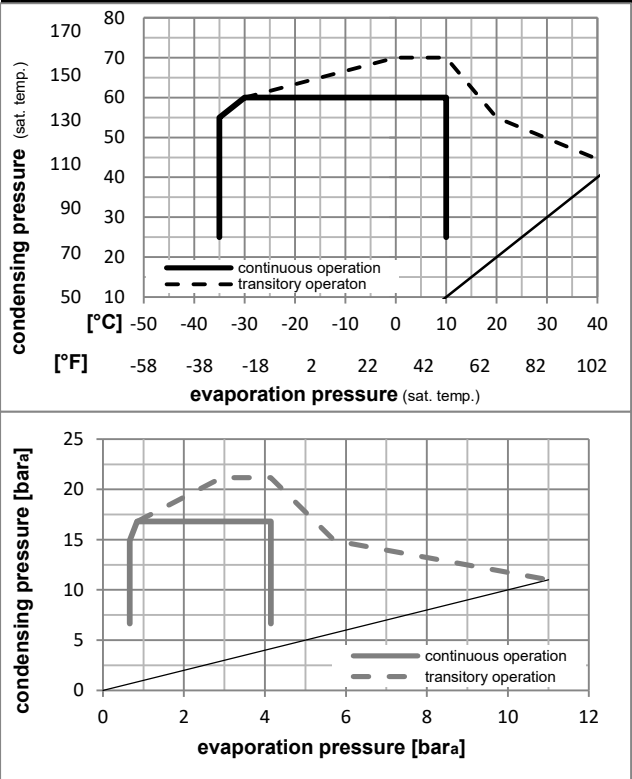


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Alternative components

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Model

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Optimization + standard conditions

R134a, 230V/60Hz, 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, 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		