

Single Pack KLE4.8GFTX 220-240V 50Hz / 208-230V 60Hz LS CSIR

Single pack code number: **195B4818**

Position	Title	Code	Amount
1	Compressor KLE4.8GFTX	106G5508	1
2	Starting relay (QLZ-4.6A, overload protector T1189/L6)	117U7073	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5001	1
4	KL accessories	103N1060	1
5	Bolt joint for one compressor M6 ø16mm	118-1917	1

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Model

Designation	KLE4.8GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5508
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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	Compressor with low height version.	

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

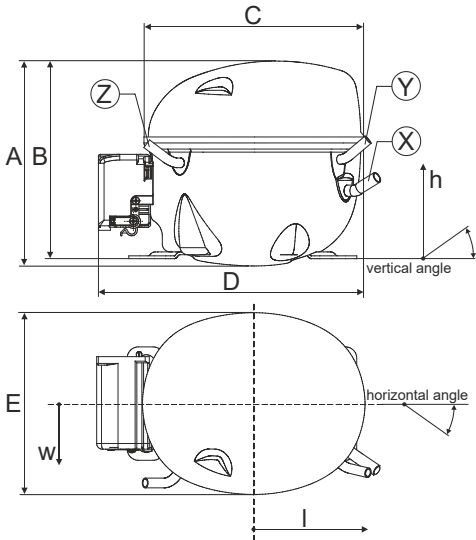
	Conf. 1	Conf. 2
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	80μF	80μF
LRA (locked rotor amps / 4s/ U(N))	10,5A	
RLA (rated load amps / 1s/ U(N))	1A	
Cut in current (U(N))	10,2A	

Model			
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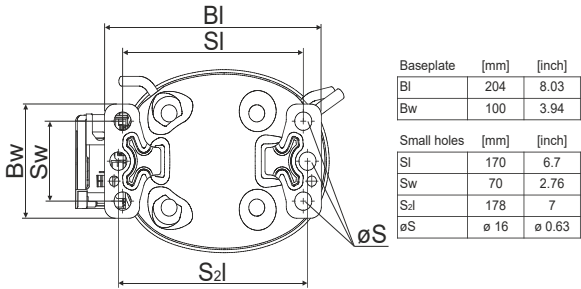
Compressor dimensions

Housing	A Height	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

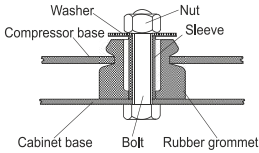
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
	(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle		±2° 35°	13°	0°
Vertical angle		±2° 30°	40°	145°
Position l/h/w	[mm]	119/73/59	114/107/63	-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



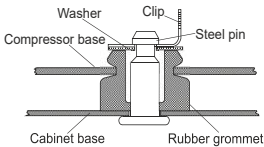
Compressor fixation



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

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

Model

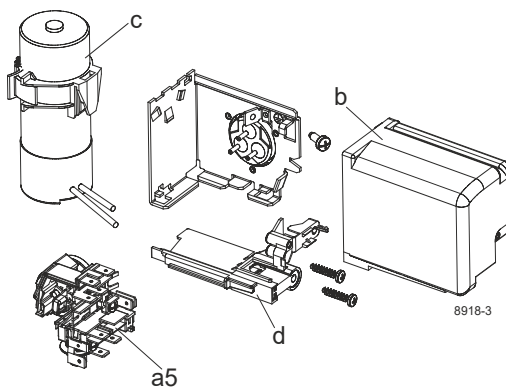
Designation	KLE4.8GFTX	220-240V/50Hz	Conf. 1	Sales code:	106G5508
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Configuration

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

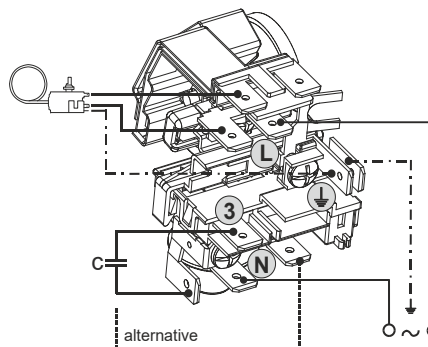
Electrical accessories / wiring diagram

CSIR

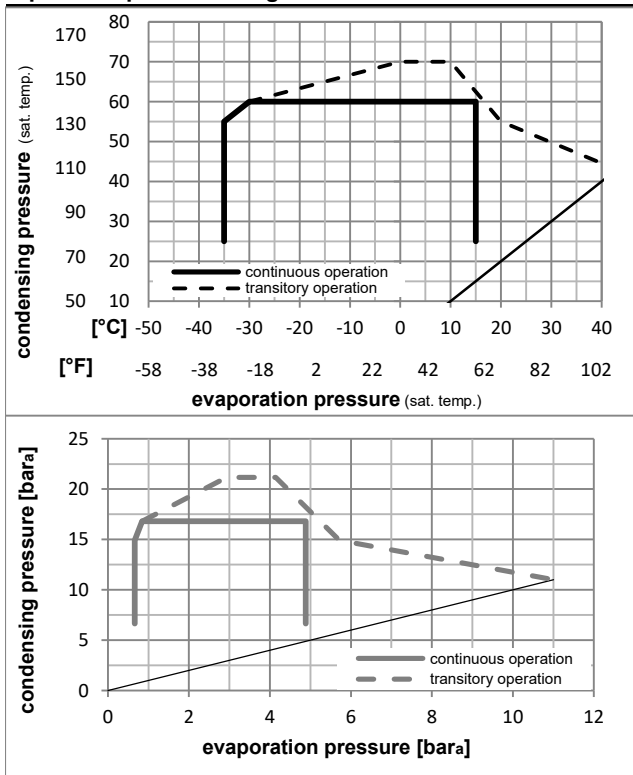


Ambient/ machine room temperatures minimum /maximum

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: **106G5508**

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

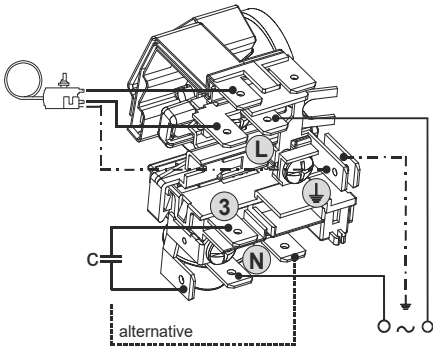
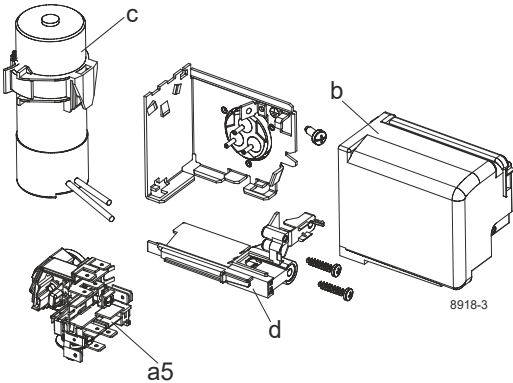
	pe		Cooling capacity			COP			EER			P1			I			m		
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	60,4	206	52,0	0,83	2,85	0,72	72,4	1,12	1,30									
cond. pressure	-25	-13	111,8	382	96,2	1,17	4,00	1,01	95,5	1,17	2,42									
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:	106G5508

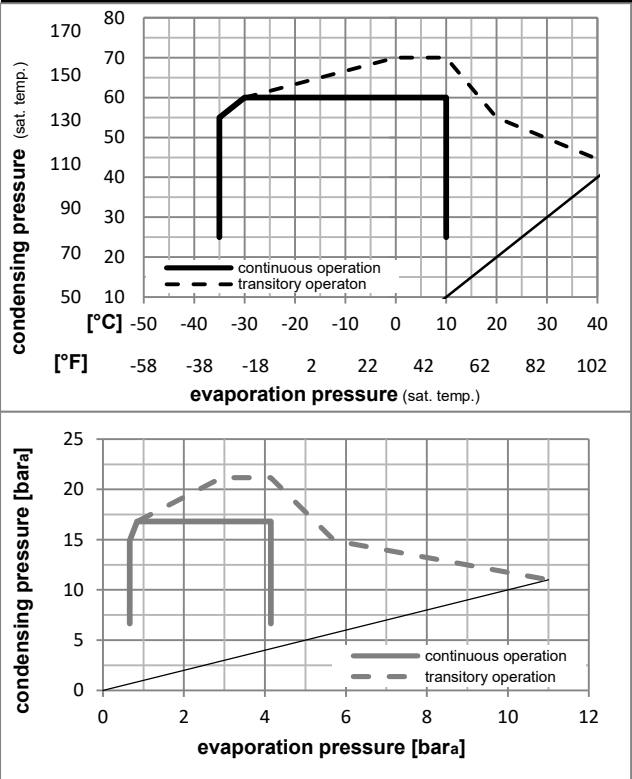
Configuration	Electrical accessories / wiring diagram				
Motor configuration	CSIR	CSIR			
Power supply (nominal)	208-230V/60Hz 1~				
Refrigerant	R134a				
Application	LBP+MBP				
Voltage range	198-253V				
Starting torque	HST				
Approvals	VDE				
	CB				
	CCC				
	UL				

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: **106G5508**

Optimization + standard conditions

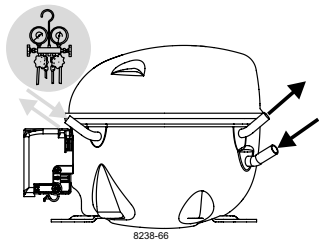
R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, CCC, UL

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



KL Compressors

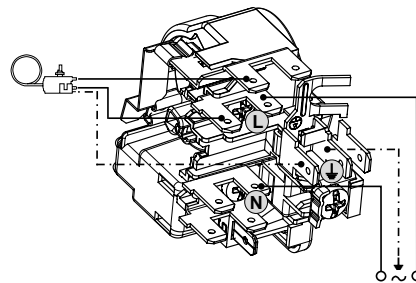
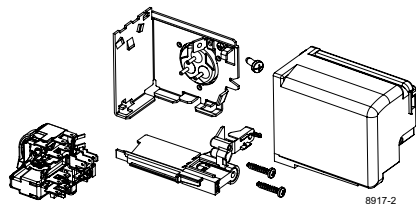
SECCP

Keep electrical equipment clear from oil, chemicals, and water

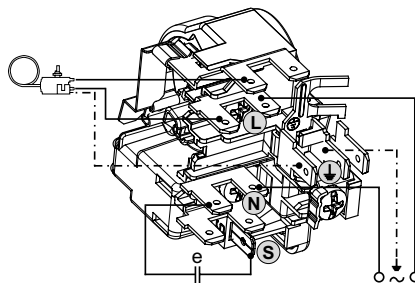
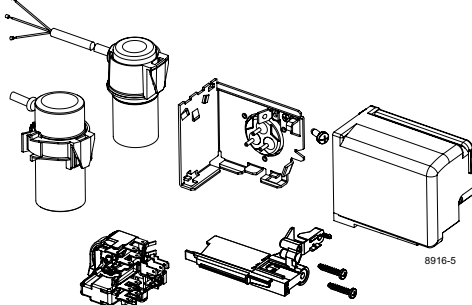


When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

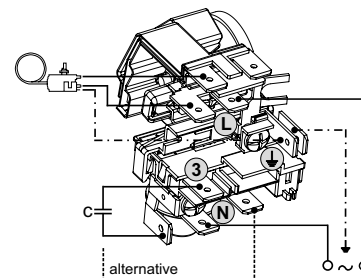
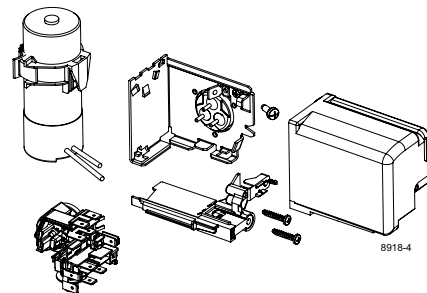
RSIR

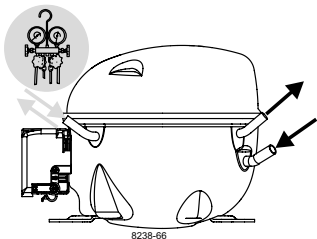


RSCR



CSIR





KL Compressors

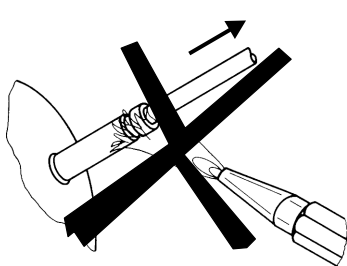
SECCP

Keep electrical equipment clear from oil, chemicals, and water

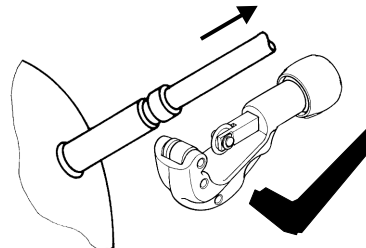


When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

Service/Repair – R290, R600a, R170, R1270, R1234yf (applies to all flammable refrigerants)



8545



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.seccp.com**