Single
Packs

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

Single pack code number: **195B4759**

Position	Title	Code	Amount
1	Compressor KLE4.8GFTX	106G5503	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
KLE4.8GFTX

Sales code:
106G5503

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**250g / 8.82oz**
Weight	**9.30 kg / 20.50lbs**
Displacement	**4.80 cm3 / 0.29cu.in**
Compressors on pallet	**100**

General – Configurations With KLE4.8GFTX

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	187-254 V	198-253 V	187-254 V	198-253 V
Approvals	VDE, CB, CCC, UL	VDE, CB, CCC, UL	VDE, CB, CCC, UL	VDE, CB, CCC, UL
Starting torque	HST	HST	HST	HST
Refrigerant	R134a	R134a	R513A	R513A
Application	LBP+MBP+HBP	LBP+MBP	LBP+MBP+HBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

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)
- Good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

Model
KLE4.8GFTX

Sales code:
106G5503

Compressor Design

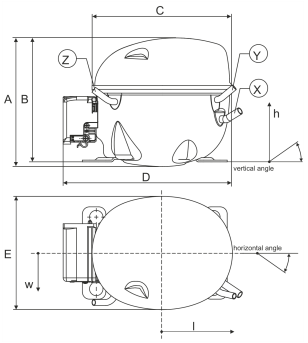
Oil type	**POE**	Winding resistance main	**13.1 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**25.3 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,545 cm3 / 52.24fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

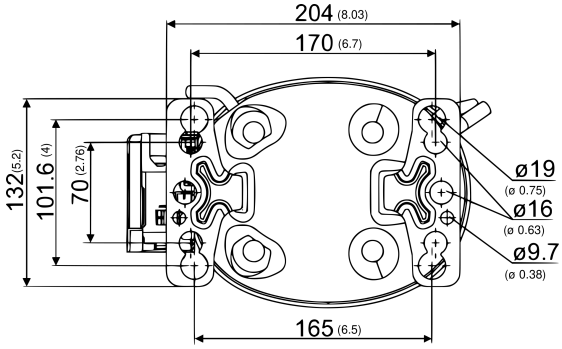
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



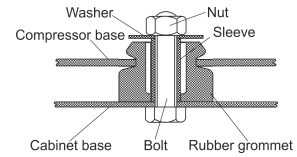
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

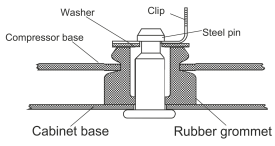


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
KLE4.8GFTX Configuration 1

Sales code:
106G5503

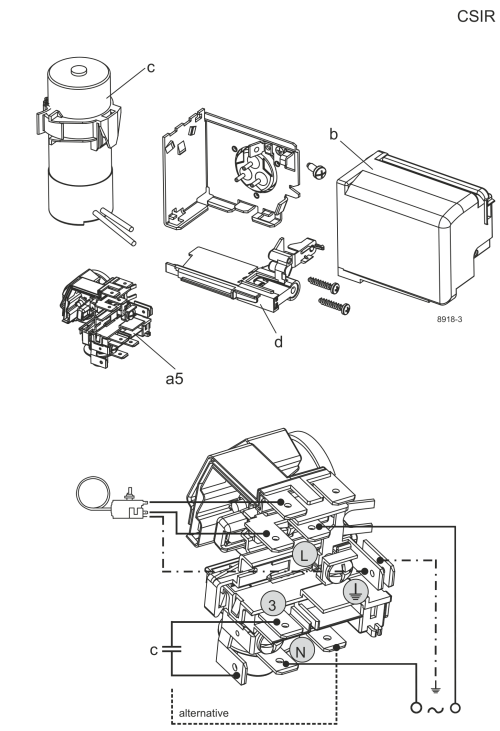
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, CB, CCC, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.5 A**
RLA (rated load amps / 1s/ U(N))	**1 A**
Cut in current (U(N))	**10.2 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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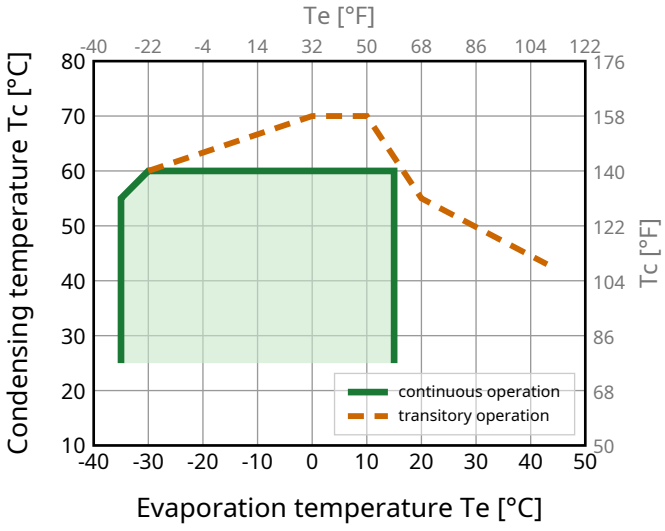
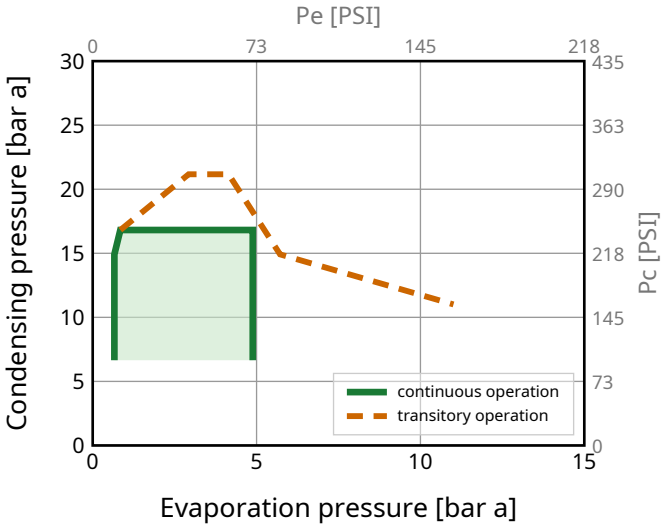
Components
a5 current relay (T1189/L6-S3) 117U7073
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model Sales code:

KLE4.8GFTX Configuration 1 **106G5503**

Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**130**	443	112	**1.26**	4.30	103	1.18	2.52	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**279**	953	240	**1.88**	6.40	149	1.29	6.08	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**502**	1711	431	**2.71**	9.25	185	1.41	11.10	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**64**	220	55	**0.88**	3.01	73	1.12	1.41	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**242**	826	208	**1.87**	6.39	129	1.24	5.64	**EN12900 MBP**
5 41	50 122	20 68	50 122	**429**	1463	369	**2.50**	8.52	172	1.36	10.76	**EN12900 HBP**

Performance Tables

R134a, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**60**	206	52	**0.83**	2.85	72	1.12	1.30
-30	-22	**82**	281	71	**0.98**	3.35	84	1.15	1.78
-20	-4	**149**	509	128	**1.40**	4.76	107	1.19	3.23
-10	14	**251**	855	216	**1.94**	6.62	129	1.24	5.48
0	32	**392**	1339	337	**2.59**	8.82	152	1.30	8.66
10	50	**580**	1977	498	**3.33**	11.34	174	1.37	12.97
15	59	**692**	2360	595	**3.72**	12.71	186	1.41	15.63

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	**49**	167	42	**0.72**	2.46	68	1.11	1.16
-30	-22	**69**	235	59	**0.83**	2.83	83	1.14	1.64
-20	-4	**128**	435	110	**1.13**	3.87	112	1.20	3.05
-10	14	**216**	736	186	**1.54**	5.24	140	1.27	5.20
0	32	**339**	1157	292	**2.03**	6.92	167	1.35	8.27
10	50	**503**	1715	432	**2.60**	8.87	193	1.44	12.45
15	59	**601**	2051	517	**2.92**	9.95	206	1.49	15.05

Model
KLE4.8GFTX Configuration 2

Sales code:
106G5503

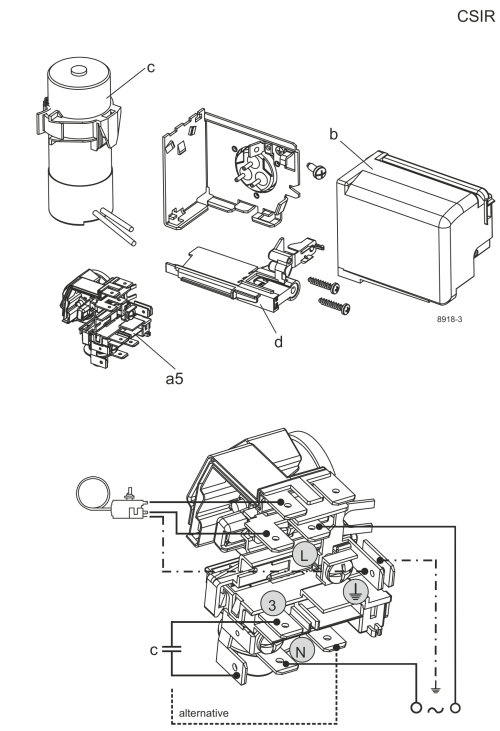
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**VDE, CB, CCC, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
RLA (rated load amps / 1s/ U(N))	**-/-A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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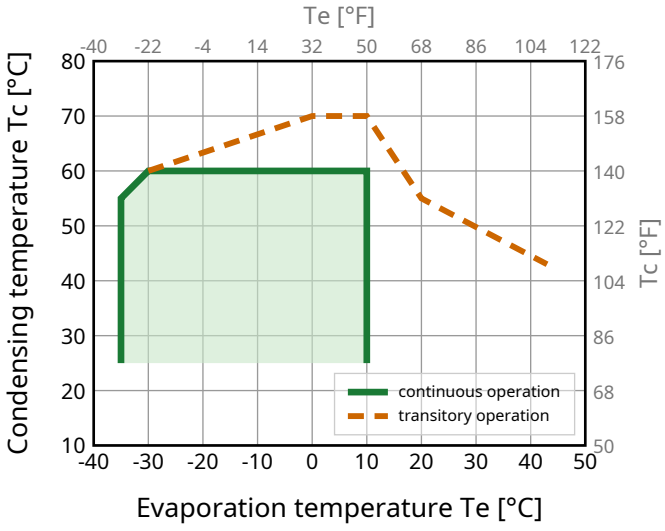
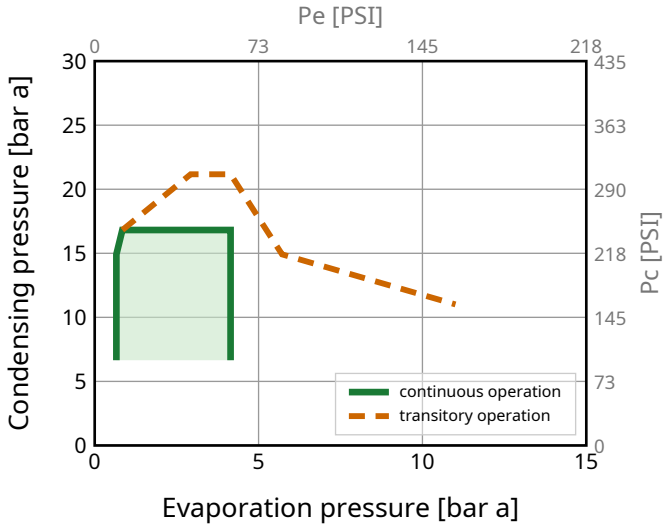
Components
a5 current relay (T1189/L6-S3) 117U7073
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model Sales code:

KLE4.8GFTX Configuration 2 **106G5503**

Standard Conditions

R134a, 230 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**154**	527	133	**1.30**	4.44	119	1.13	3.00	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**330**	1125	283	**1.92**	6.54	172	1.26	7.18	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**586**	2000	504	**2.71**	9.23	217	1.39	12.98	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**82**	279	70	**0.94**	3.22	87	1.08	1.79	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**282**	963	243	**1.88**	6.40	151	1.20	6.58	**EN12900 MBP**
5 41	50 122	20 68	50 122	**502**	1712	431	**2.46**	8.38	204	1.35	12.58	**EN12900 HBP**

Performance Tables

R134a, 230 V/60 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**76**	260	65	**0.89**	3.04	85	1.07	1.64
-30	-22	**99**	337	85	**1.03**	3.50	96	1.09	2.13
-20	-4	**174**	594	150	**1.43**	4.88	122	1.14	3.77
-10	14	**292**	998	251	**1.94**	6.63	151	1.20	6.39
0	32	**458**	1563	394	**2.53**	8.64	181	1.28	10.11
10	50	**675**	2304	581	**3.20**	10.92	211	1.37	15.11
15	59	**804**	2744	692	**3.57**	12.18	225	1.42	18.17

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	**61**	208	52	**0.71**	2.42	86	1.08	1.45
-30	-22	**83**	284	71	**0.84**	2.85	100	1.10	1.98
-20	-4	**152**	517	130	**1.17**	3.99	130	1.15	3.62
-10	14	**255**	871	220	**1.58**	5.38	162	1.23	6.16
0	32	**399**	1361	343	**2.05**	6.99	195	1.32	9.73
10	50	**586**	2000	504	**2.59**	8.85	226	1.42	14.52
15	59	**697**	2380	600	**2.90**	9.89	240	1.48	17.45

Model
KLE4.8GFTX Configuration 3

Sales code:
106G5503

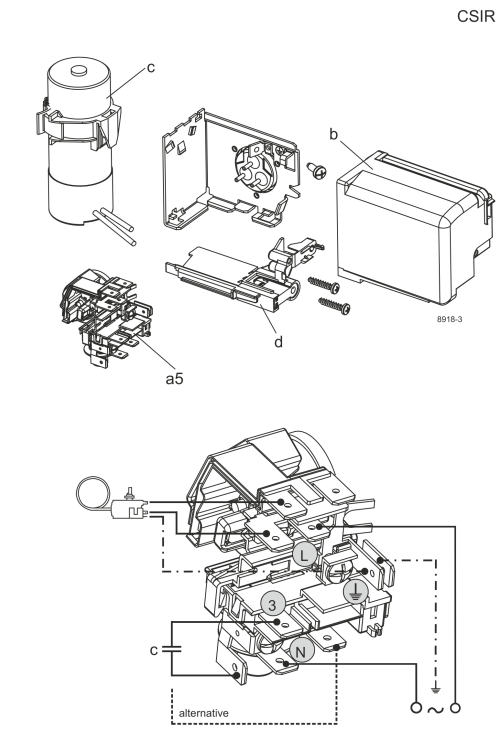
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, CB, CCC, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.2 A**
RLA (rated load amps / 1s/ U(N))	**1.4 A**
Cut in current (U(N))	**12.65 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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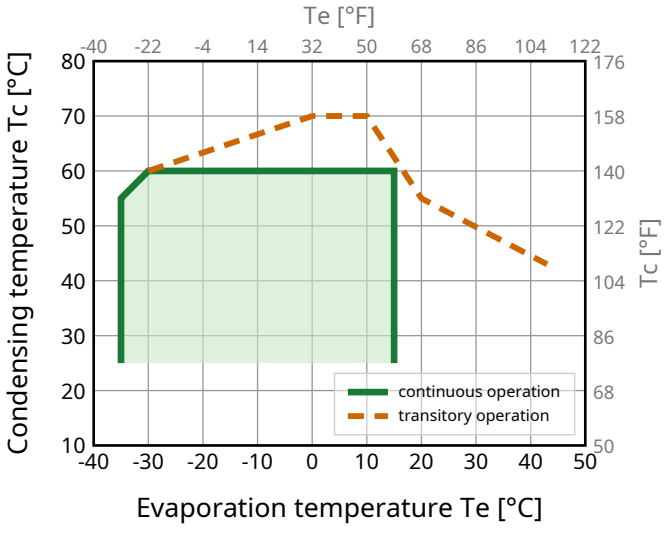
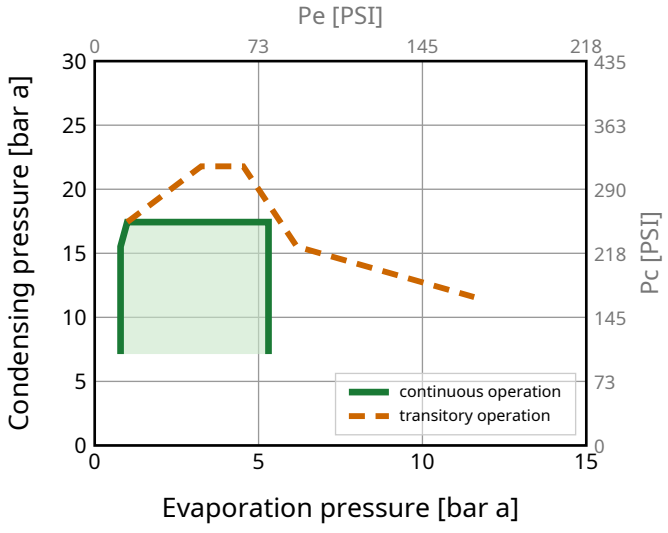
Components
a5 current relay (T1189/L6-S3) 117U7073
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model Sales code:

KLE4.8GFTX Configuration 3 **106G5503**

Standard Conditions

R513A, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**143**	488	123	**1.29**	4.41	111	0.96	3.13	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**293**	999	252	**1.86**	6.36	157	1.08	7.30	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**516**	1760	444	**2.68**	9.14	193	1.20	13.11	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**72**	244	62	**0.92**	3.13	78	0.90	1.80	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**252**	859	217	**1.84**	6.28	137	1.02	6.82	**EN12900 MBP**
5 41	50 122	20 68	50 122	**432**	1474	372	**2.41**	8.23	179	1.16	12.74	**EN12900 HBP**

Performance Tables

R513A, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**68**	231	58	**0.87**	2.98	78	0.89	1.67
-30	-22	**91**	310	78	**1.01**	3.44	90	0.92	2.24
-20	-4	**160**	547	138	**1.41**	4.80	114	0.97	3.98
-10	14	**264**	901	227	**1.93**	6.59	137	1.02	6.61
0	32	**407**	1389	350	**2.56**	8.73	159	1.09	10.31
10	50	**594**	2026	511	**3.28**	11.19	181	1.16	15.29
15	59	**705**	2405	606	**3.67**	12.52	192	1.20	18.35

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	**55**	187	47	**0.75**	2.55	74	0.88	1.51
-30	-22	**75**	257	65	**0.84**	2.86	90	0.92	2.08
-20	-4	**135**	461	116	**1.12**	3.82	120	0.98	3.76
-10	14	**224**	764	192	**1.50**	5.13	149	1.06	6.28
0	32	**346**	1181	298	**1.97**	6.73	176	1.14	9.84
10	50	**506**	1727	435	**2.52**	8.61	201	1.24	14.67
15	59	**602**	2054	518	**2.83**	9.66	213	1.29	17.65

Model
KLE4.8GFTX Configuration 4

Sales code:
106G5503

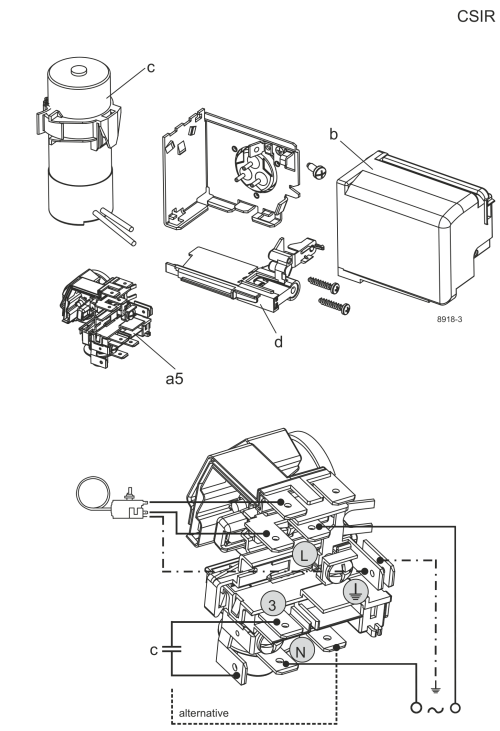
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**VDE, CB, CCC, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
RLA (rated load amps / 1s/ U(N))	**-/-A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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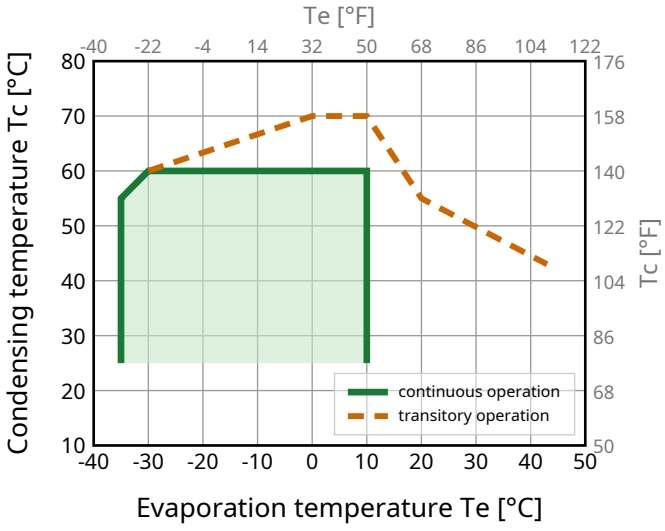
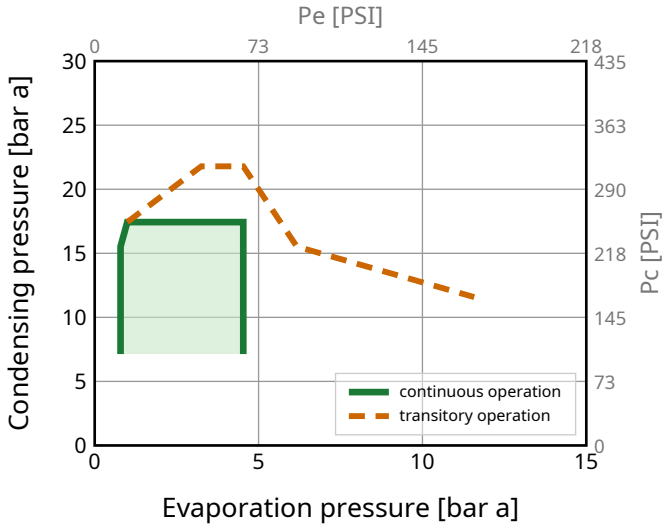
Components
a5 current relay (T1189/L6-S3) 117U7073
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE4.8GFTX Configuration 4

Sales code:

106G5503

Standard Conditions

R513A, 230 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**170**	581	146	**1.34**	4.57	127	1.13	3.72	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**346**	1180	297	**1.90**	6.49	182	1.26	8.62	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**603**	2059	519	**2.67**	9.12	226	1.39	15.33	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**91**	309	78	**1.01**	3.43	90	0.97	2.28	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**294**	1002	252	**1.84**	6.29	159	1.21	7.95	**EN12900 MBP**
5 41	50 122	20 68	50 122	**506**	1725	435	**2.37**	8.10	213	1.35	14.91	**EN12900 HBP**

Performance Tables

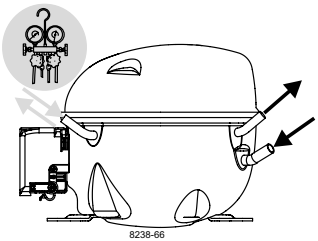
R513A, 230 V/60 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**85**	291	73	**0.96**	3.28	89	0.98	2.10
-30	-22	**109**	372	94	**1.07**	3.66	102	1.04	2.69
-20	-4	**187**	638	161	**1.44**	4.92	130	1.13	4.64
-10	14	**308**	1051	265	**1.94**	6.60	159	1.21	7.71
0	32	**475**	1622	409	**2.51**	8.56	189	1.28	12.04
10	50	**692**	2361	595	**3.16**	10.77	219	1.37	17.82
15	59	**820**	2797	705	**3.51**	11.97	234	1.43	21.34

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	**69**	234	59	**0.77**	2.61	90	1.02	1.89
-30	-22	**91**	311	78	**0.86**	2.95	106	1.07	2.52
-20	-4	**161**	548	138	**1.16**	3.96	138	1.16	4.46
-10	14	**265**	904	228	**1.54**	5.27	172	1.23	7.43
0	32	**407**	1389	350	**2.00**	6.81	204	1.32	11.58
10	50	**590**	2014	508	**2.52**	8.58	235	1.43	17.11
15	59	**698**	2383	601	**2.80**	9.56	249	1.50	20.48



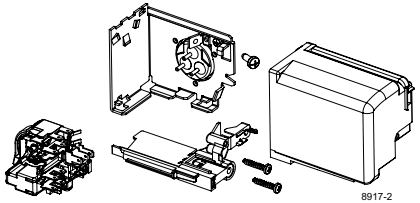
KL Compressors

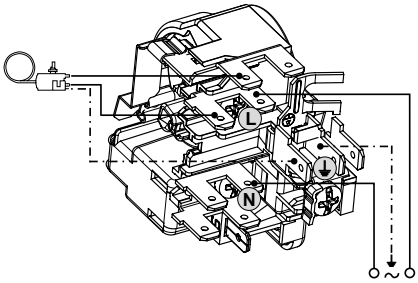
SECOP

Keep electrical equipment clear from oil, chemicals, and water

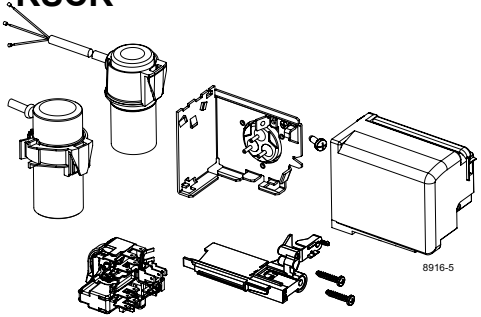
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

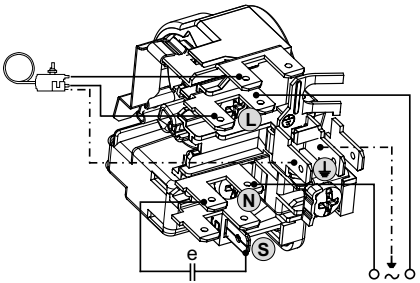
RSIR



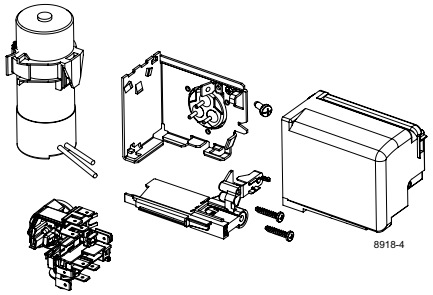


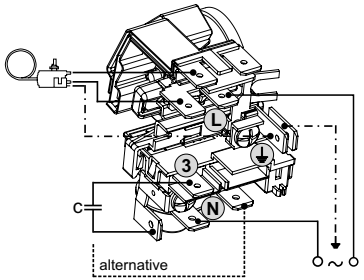
RSCR

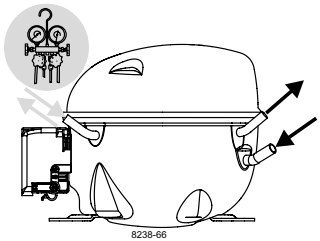




CSIR







KL Compressors

SECOP

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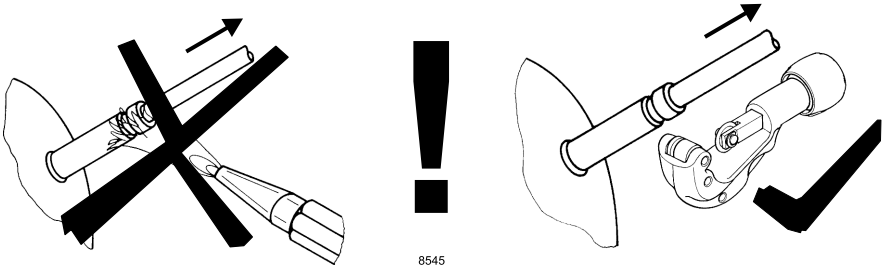
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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.secop.com**