Model
KLE4.8GFTX

Sales code:
106G5513

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

- Electrical equipment is included and pre-assembled to compressor.
- 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.

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KLE4.8GFTX

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Compressor Design

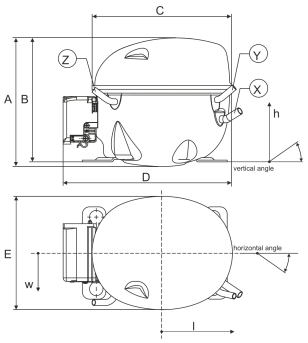
Oil type	**POE**	Winding resistance main	**13.1 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**25.3 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,545 cm3 / 52.24fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

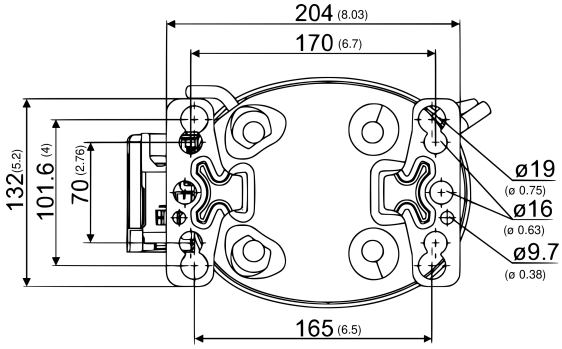
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



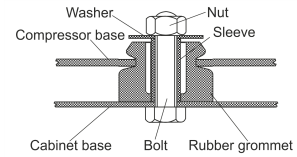
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

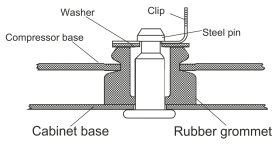


Dimensions in mm [in]

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:
106G5513

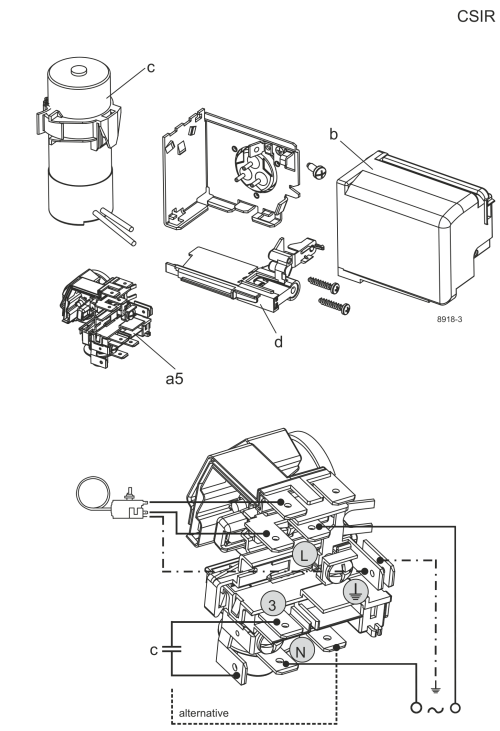
Configuration

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

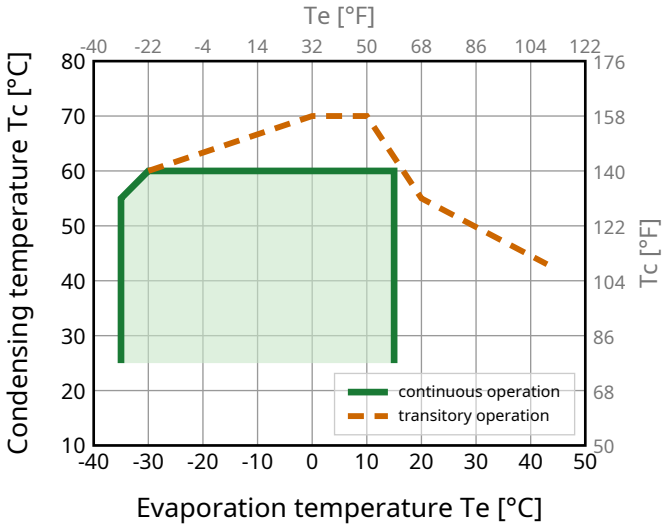


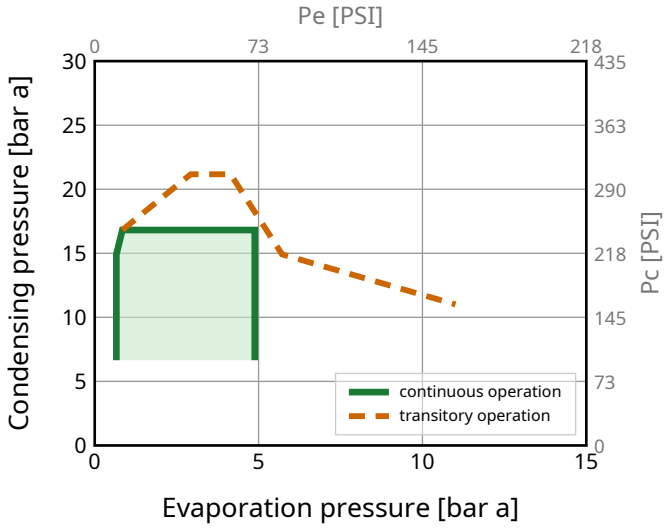
View full size

Components (already pre-assembled)
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 **106G5513**

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:
106G5513

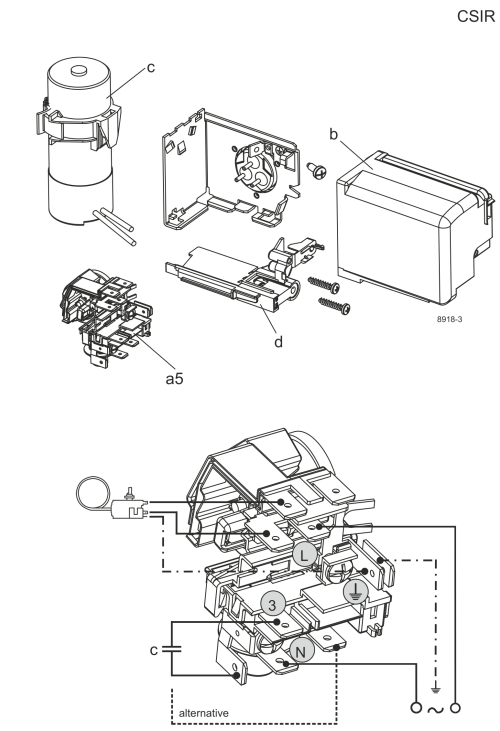
Configuration

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

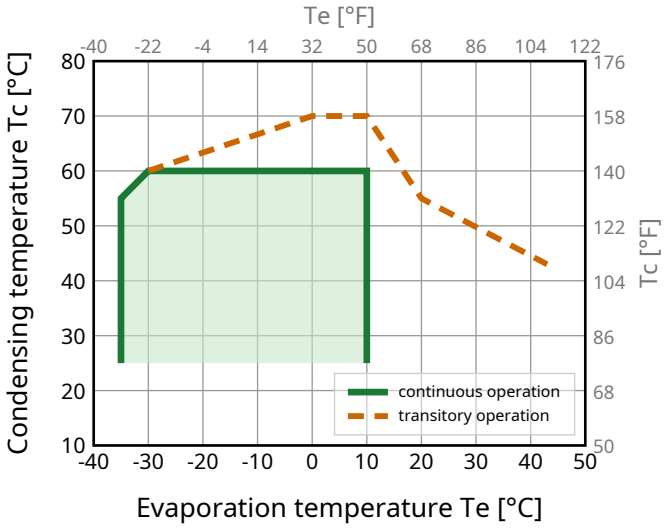


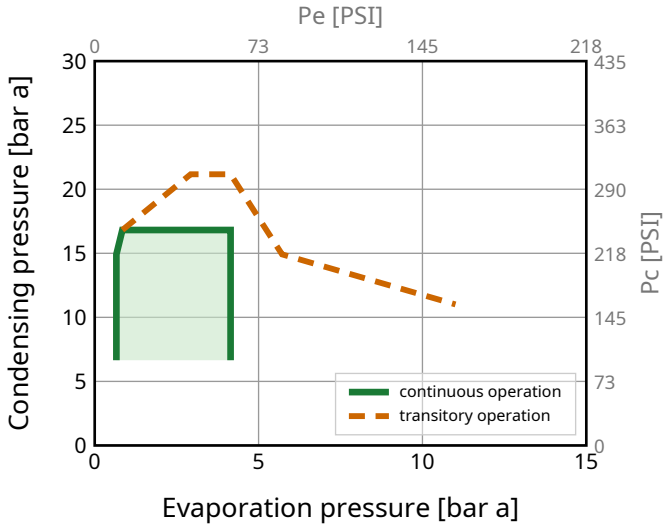
View full size

Components (already pre-assembled)
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 **106G5513**

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:
106G5513

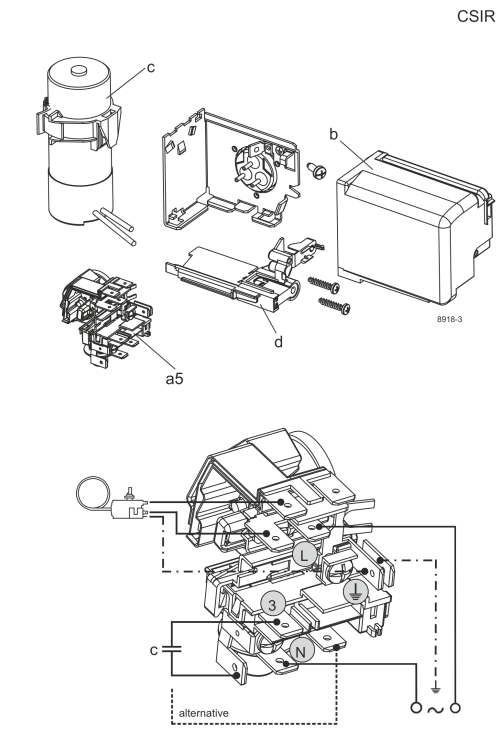
Configuration

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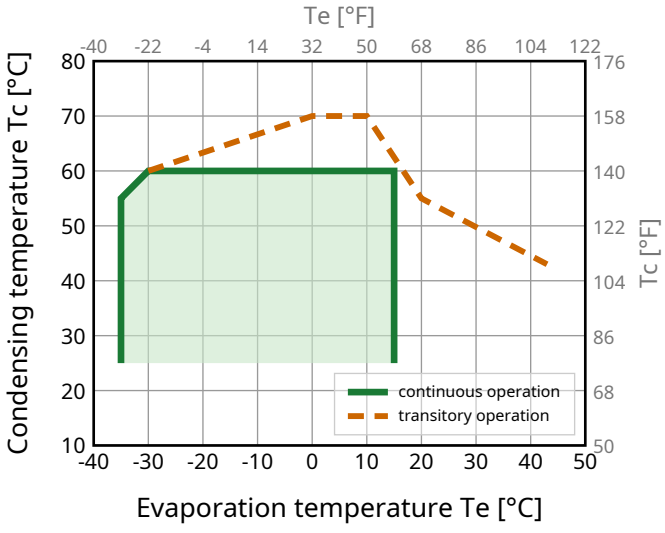
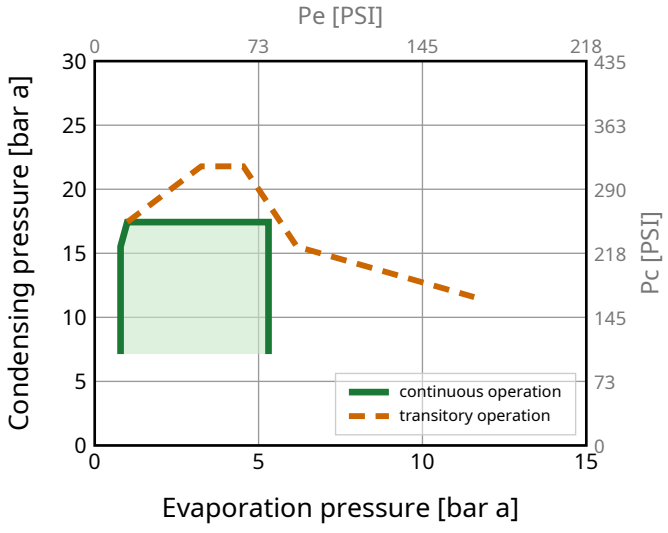
Components (already pre-assembled)
a5 current relay (T1189/L6-S3) 117U7073
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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 3

Sales code:

106G5513

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:

106G5513

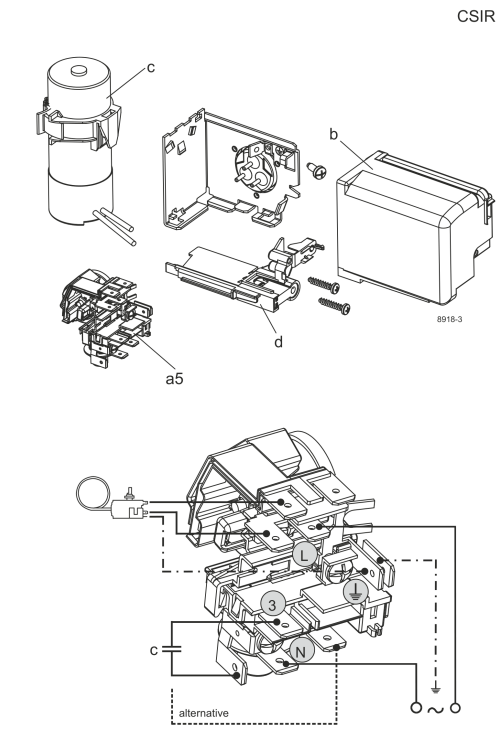
Configuration

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

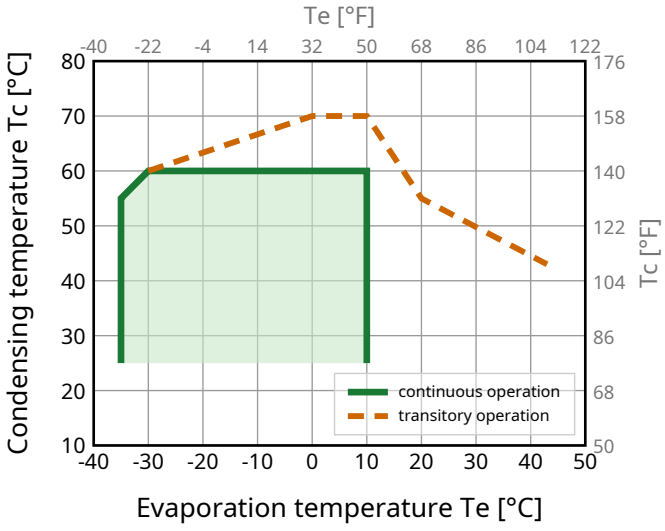


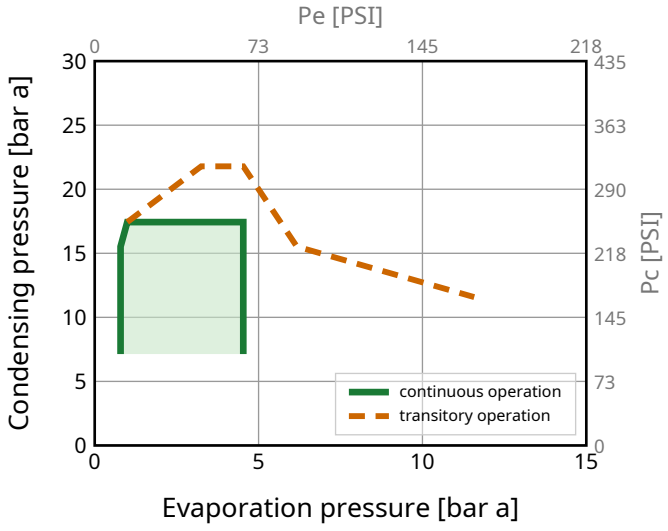
View full size

Components (already pre-assembled)
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 4 **106G5513**

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