Model
KLE6.6GFTX

Sales code:
106G5703

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**250g / 8.82oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**6.60 cm3 / 0.40cu.in**
Compressors on pallet	**100**

General – Configurations With KLE6.6GFTX

–	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, UL	VDE, CB, UL	VDE, CB, UL	VDE, CB, 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	–

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.

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Compressor Design

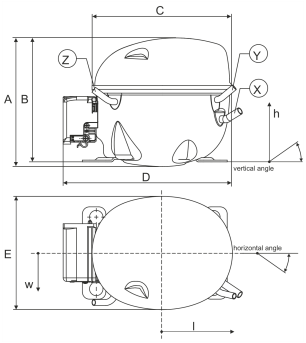
Oil type	**POE**	Winding resistance main	**8.4 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**11.9 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,510 cm3 / 51.06fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

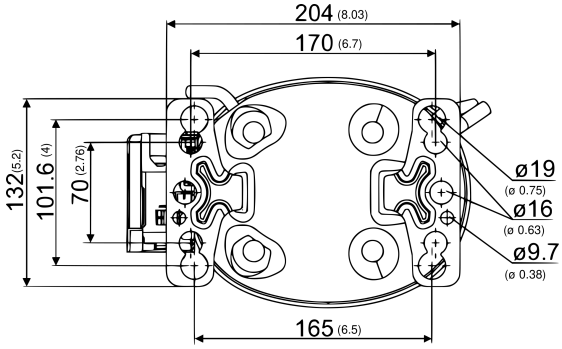
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



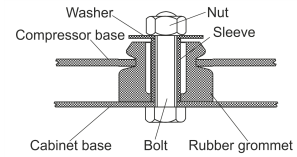
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

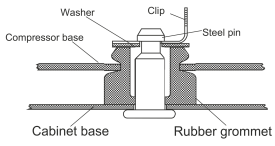


Dimensions in mm [in]

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
KLE6.6GFTX Configuration 1

Sales code:
106G5703

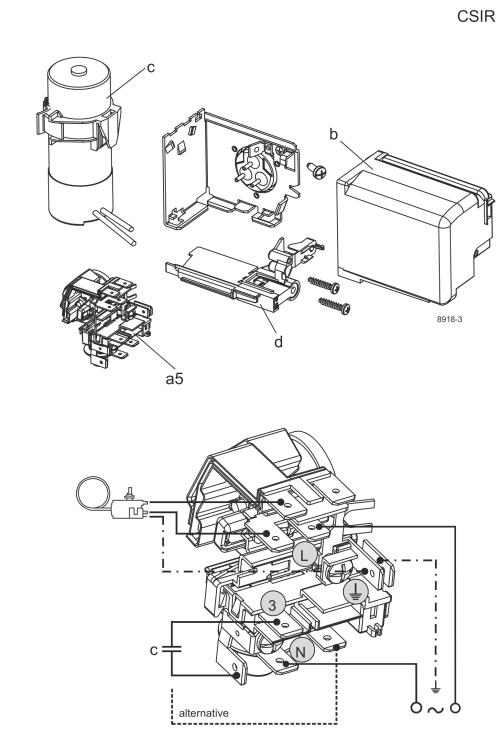
Configuration

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, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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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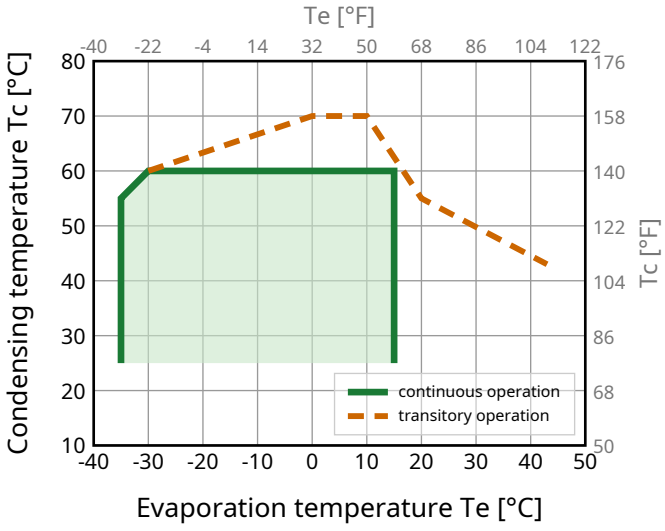
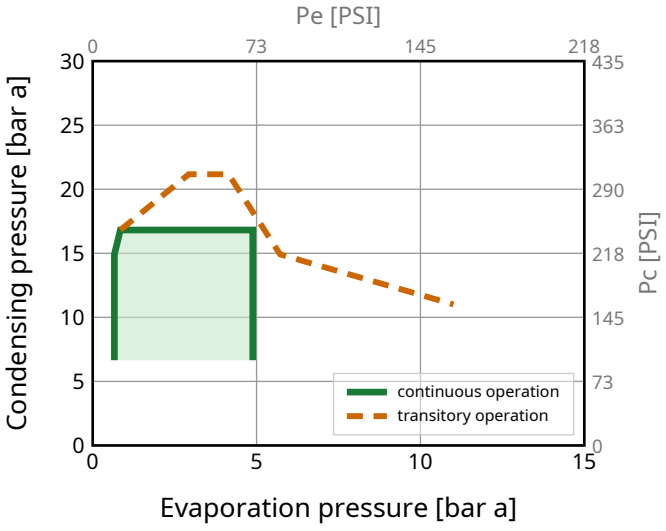
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE6.6GFTX Configuration 1

Sales code:

106G5703

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	**189**	645	163	**1.29**	4.40	147	1.29	3.67	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**400**	1366	344	**1.85**	6.31	216	1.52	8.72	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**716**	2441	615	**2.58**	8.81	277	1.76	15.84	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**100**	339	86	**0.95**	3.23	105	1.20	2.18	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**348**	1186	299	**1.88**	6.41	185	1.41	8.11	**EN12900 MBP**
5 41	50 122	20 68	50 122	**613**	2092	527	**2.40**	8.21	255	1.67	15.38	**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	**94**	320	81	**0.89**	3.02	106	1.20	2.02
-30	-22	**123**	420	106	**1.03**	3.51	120	1.22	2.65
-20	-4	**216**	737	186	**1.43**	4.89	151	1.30	4.68
-10	14	**360**	1229	310	**1.95**	6.64	185	1.41	7.87
0	32	**562**	1918	483	**2.53**	8.65	222	1.54	12.40
10	50	**828**	2824	712	**3.20**	10.91	259	1.69	18.53
15	59	**987**	3367	849	**3.56**	12.16	277	1.76	22.29

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

-35	-31	**76**	259	65	**0.74**	2.54	102	1.18	1.80
-30	-22	**103**	350	88	**0.85**	2.91	120	1.22	2.44
-20	-4	**185**	630	159	**1.15**	3.93	160	1.33	4.42
-10	14	**310**	1057	267	**1.52**	5.20	203	1.47	7.47
0	32	**485**	1655	417	**1.96**	6.69	247	1.64	11.83
10	50	**716**	2444	616	**2.46**	8.40	291	1.82	17.75
15	59	**855**	2917	735	**2.74**	9.34	312	1.92	21.40

Model
KLE6.6GFTX Configuration 2

Sales code:
106G5703

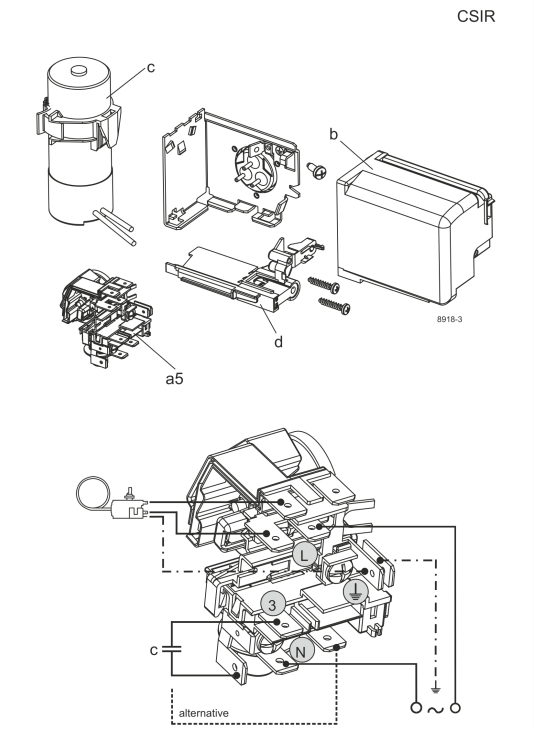
Configuration

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, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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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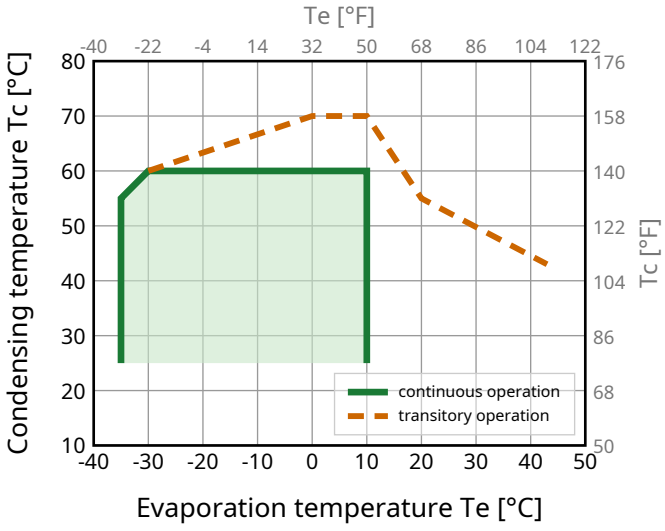
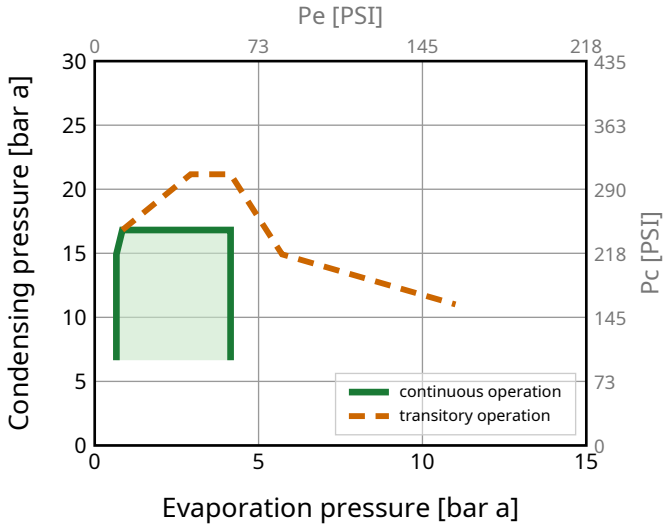
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE6.6GFTX Configuration 2

Sales code:
106G5703

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	**229**	781	197	**1.37**	4.68	167	1.25	4.44	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**473**	1615	407	**1.91**	6.51	248	1.50	10.31	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**838**	2859	721	**2.62**	8.95	319	1.75	18.55	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**119**	405	102	**1.09**	3.72	109	1.11	2.59	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**409**	1394	351	**1.89**	6.44	216	1.39	9.53	**EN12900 MBP**
5 41	50 122	20 68	50 122	**716**	2445	616	**2.41**	8.22	298	1.67	17.97	**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	**111**	380	96	**1.04**	3.53	108	1.11	2.40
-30	-22	**148**	507	128	**1.13**	3.87	131	1.16	3.20
-20	-4	**258**	880	222	**1.48**	5.04	174	1.26	5.59
-10	14	**423**	1444	364	**1.95**	6.67	216	1.39	9.24
0	32	**656**	2237	564	**2.52**	8.59	260	1.54	14.46
10	50	**966**	3296	831	**3.12**	10.65	310	1.72	21.62
15	59	**1154**	3937	992	**3.42**	11.69	337	1.81	26.07

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

-35	-31	**86**	294	74	**0.82**	2.80	105	1.10	2.04
-30	-22	**123**	419	106	**0.93**	3.16	133	1.16	2.92
-20	-4	**223**	761	192	**1.21**	4.13	184	1.29	5.33
-10	14	**368**	1257	317	**1.58**	5.39	233	1.44	8.88
0	32	**570**	1945	490	**2.02**	6.88	283	1.62	13.90
10	50	**839**	2862	721	**2.49**	8.51	336	1.82	20.78
15	59	**1002**	3418	862	**2.74**	9.35	366	1.93	25.07

Model
KLE6.6GFTX Configuration 3

Sales code:
106G5703

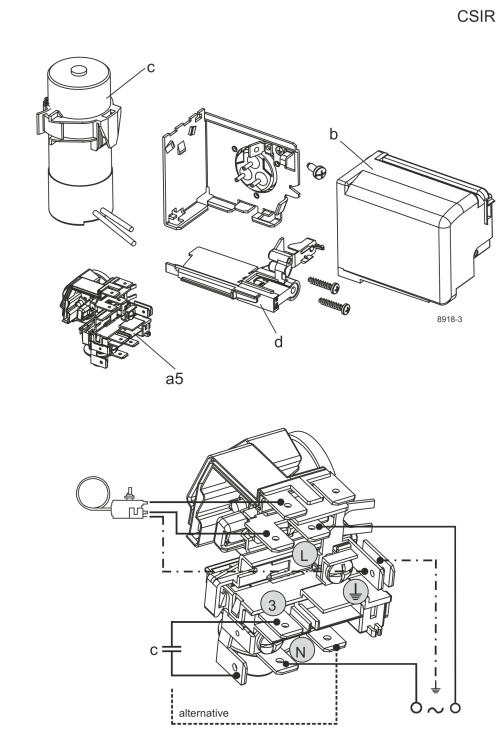
Configuration

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, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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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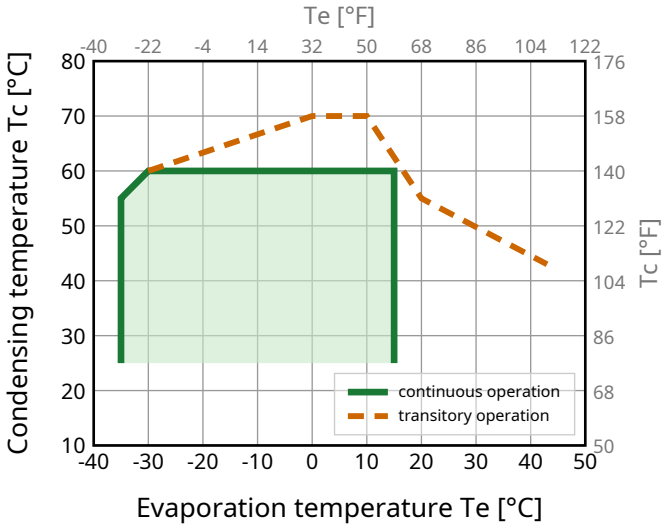
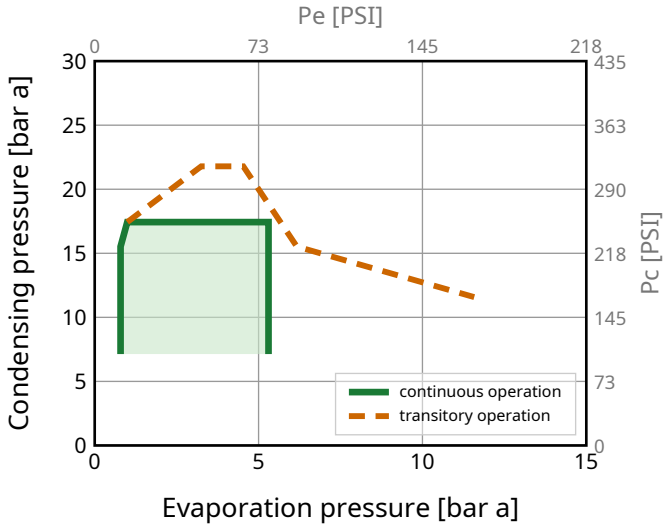
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE6.6GFTX Configuration 3

Sales code:
106G5703

Standard Conditions

R513A, 240 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	**209**	713	180	**1.32**	4.52	158	1.09	4.58	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**412**	1407	355	**1.83**	6.26	225	1.29	10.28	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**721**	2459	620	**2.56**	8.75	281	1.48	18.31	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**104**	355	89	**0.97**	3.31	107	0.97	2.62	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**355**	1211	305	**1.85**	6.30	192	1.19	9.61	**EN12900 MBP**
5 41	50 122	20 68	50 122	**600**	2048	516	**2.33**	7.93	258	1.40	17.70	**EN12900 HBP**

Performance Tables

R513A, 240 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	**97**	331	83	**0.90**	3.06	108	0.97	2.38
-30	-22	**135**	461	116	**1.07**	3.66	126	1.01	3.33
-20	-4	**234**	797	201	**1.46**	4.99	160	1.09	5.80
-10	14	**372**	1271	320	**1.94**	6.61	192	1.19	9.32
0	32	**564**	1925	485	**2.50**	8.54	225	1.29	14.29
10	50	**822**	2804	707	**3.14**	10.72	262	1.40	21.17
15	59	**979**	3341	842	**3.48**	11.88	281	1.45	25.49

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

-35	-31	**73**	249	63	**0.69**	2.36	105	0.97	2.01
-30	-22	**108**	370	93	**0.84**	2.88	129	1.02	2.99
-20	-4	**196**	670	169	**1.14**	3.89	172	1.13	5.46
-10	14	**317**	1083	273	**1.49**	5.09	213	1.25	8.90
0	32	**484**	1651	416	**1.91**	6.52	253	1.39	13.76
10	50	**709**	2419	610	**2.40**	8.20	295	1.53	20.54
15	59	**848**	2892	729	**2.67**	9.11	317	1.60	24.85

Model
KLE6.6GFTX Configuration 4

Sales code:
106G5703

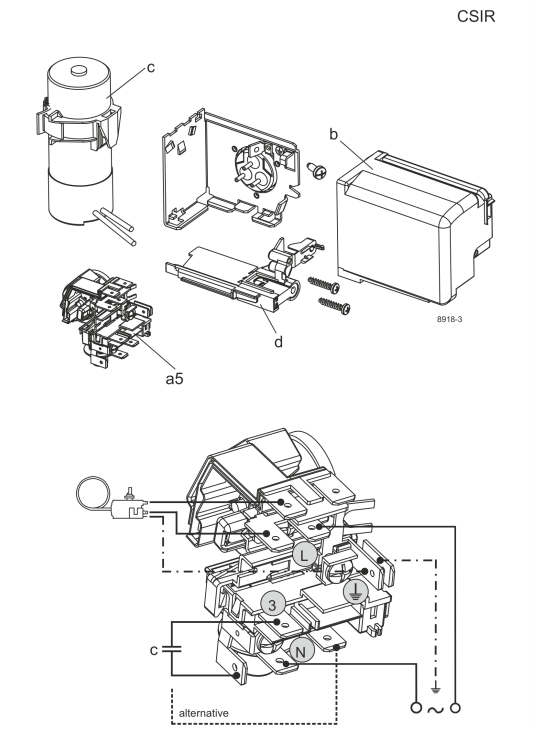
Configuration

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, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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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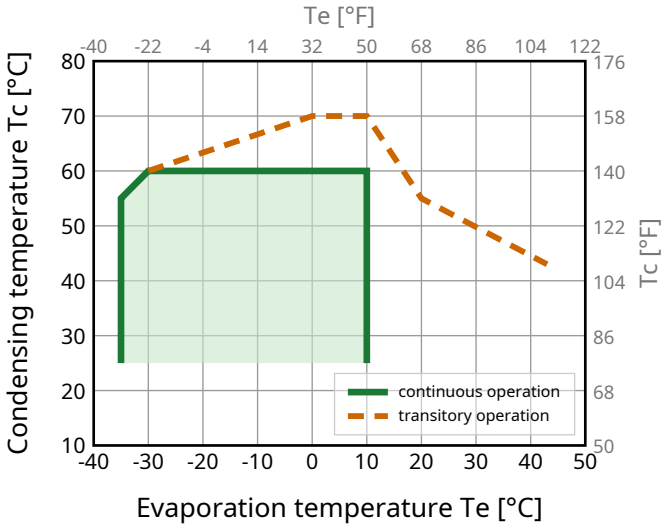
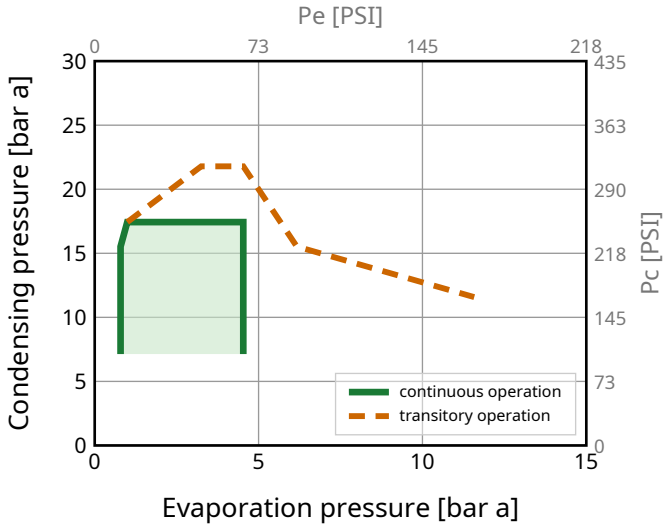
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE6.6GFTX Configuration 4

Sales code:

106G5703

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	**252**	861	217	**1.41**	4.81	179	1.28	5.52	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**490**	1673	422	**1.89**	6.46	259	1.56	12.22	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**862**	2940	741	**2.65**	9.02	326	1.82	21.89	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**127**	434	109	**1.06**	3.62	120	1.08	3.20	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**422**	1440	363	**1.91**	6.52	221	1.43	11.43	**EN12900 MBP**
5 41	50 122	20 68	50 122	**718**	2448	617	**2.40**	8.19	299	1.71	21.16	**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	**121**	411	104	**0.99**	3.37	122	1.08	2.97
-30	-22	**164**	559	141	**1.16**	3.95	142	1.15	4.04
-20	-4	**278**	949	239	**1.53**	5.24	181	1.28	6.90
-10	14	**443**	1511	381	**2.00**	6.84	221	1.43	11.08
0	32	**674**	2299	579	**2.59**	8.82	260	1.57	17.07
10	50	**986**	3366	848	**3.29**	11.23	300	1.72	25.41
15	59	**1178**	4021	1014	**3.69**	12.60	319	1.79	30.68

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

-35	-31	**96**	327	82	**0.78**	2.66	123	1.09	2.64
-30	-22	**135**	462	116	**0.92**	3.14	147	1.17	3.73
-20	-4	**236**	804	203	**1.20**	4.11	196	1.33	6.54
-10	14	**377**	1287	324	**1.54**	5.27	244	1.51	10.59
0	32	**576**	1967	496	**1.97**	6.71	293	1.69	16.39
10	50	**849**	2896	730	**2.48**	8.48	342	1.88	24.59
15	59	**1017**	3471	875	**2.78**	9.50	366	1.97	29.83