Model
KLE6.6GFHX

Sales code:
106G6703

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**6.60 cm3 / 0.40cu.in**
Compressors on pallet	**100**

General – Configurations With KLE6.6GFHX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-140 V	95-140 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	LBP+MBP+HBP	LBP+MBP+HBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Recommanded voltage range for HBP is 103-140 V/60 Hz
- 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

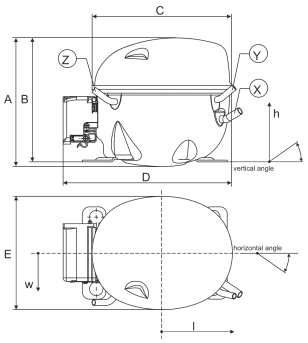
Oil type	**POE**	Winding resistance main	**2 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**5.3 Ohm**
Oil quantity	**200 cm3 / 6.76fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,580 cm3 / 53.43fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

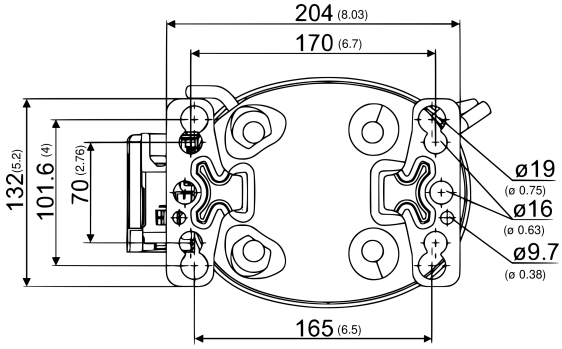
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



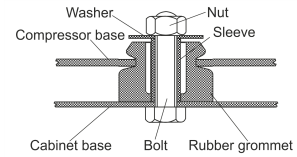
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

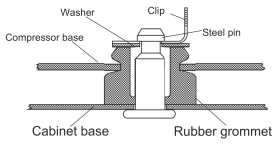


Dimensions in mm [in]

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
KLE6.6GFHX Configuration 1

Sales code:
106G6703

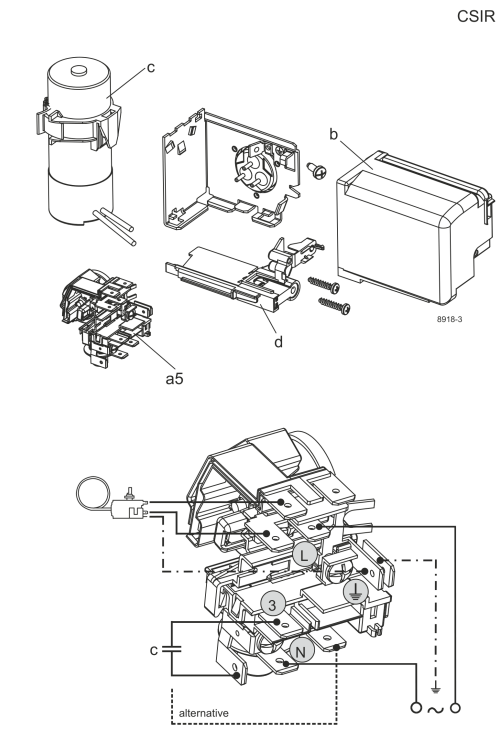
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**31.1 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**31.5 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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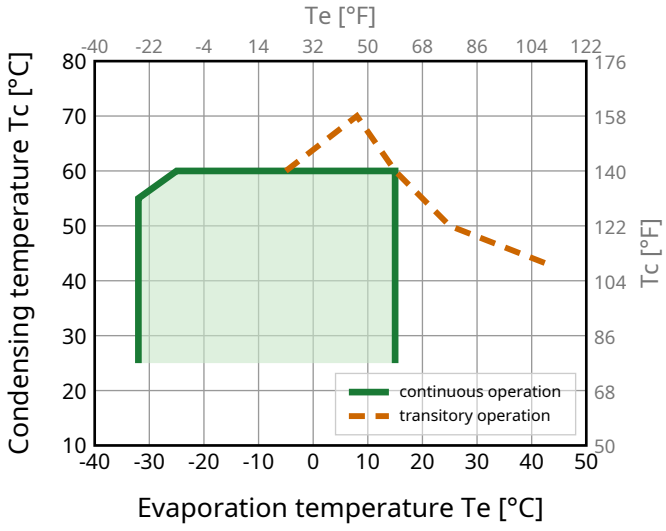
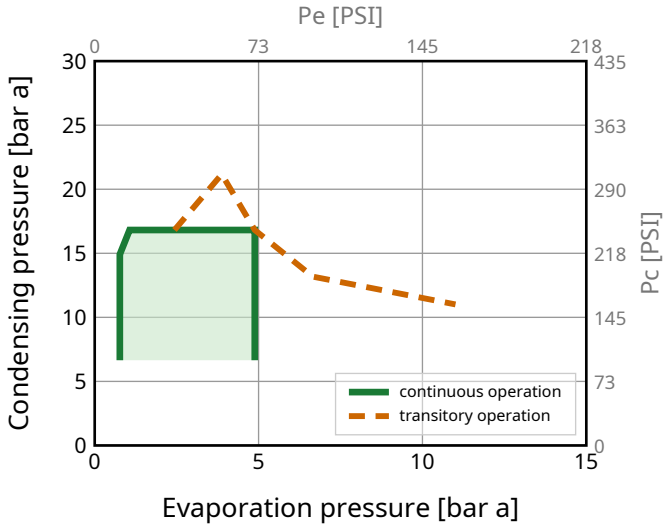
Components
a5 current relay (T1246/L6) 117U7080
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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:

KLE6.6GFHX Configuration 1 **106G6703**

Standard Conditions

R134a, 120 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	**234**	800	202	**1.34**	4.57	175	2.59	4.55	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**481**	1643	414	**1.86**	6.36	258	3.15	10.48	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**852**	2908	733	**2.57**	8.77	332	3.72	18.87	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**118**	402	101	**0.96**	3.27	123	2.33	2.58	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**419**	1428	360	**1.85**	6.32	226	2.91	9.76	**EN12900 MBP**
5 41	50 122	20 68	50 122	**728**	2485	626	**2.38**	8.11	306	3.52	18.27	**EN12900 HBP**

Performance Tables

R134a, 120 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]
-32	-26	**134**	456	115	**0.98**	3.35	136	2.38	2.88
-30	-22	**152**	518	131	**1.05**	3.58	145	2.42	3.28
-20	-4	**267**	910	229	**1.44**	4.90	186	2.65	5.79
-10	14	**434**	1479	373	**1.92**	6.55	226	2.91	9.47
0	32	**668**	2278	574	**2.49**	8.50	268	3.23	14.73
10	50	**984**	3357	846	**3.12**	10.66	315	3.59	22.02
15	59	**1178**	4018	1013	**3.45**	11.77	341	3.79	26.61

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

-32	-26	**106**	361	91	**0.82**	2.79	129	2.34	2.51
-30	-22	**123**	420	106	**0.88**	3.00	140	2.39	2.93
-20	-4	**228**	780	197	**1.19**	4.06	192	2.69	5.46
-10	14	**375**	1280	323	**1.55**	5.28	242	3.03	9.05
0	32	**579**	1975	498	**1.97**	6.72	294	3.42	14.11
10	50	**854**	2916	735	**2.44**	8.34	350	3.87	21.17
15	59	**1024**	3495	881	**2.70**	9.21	380	4.11	25.64

Model
KLE6.6GFHX Configuration 2

Sales code:
106G6703

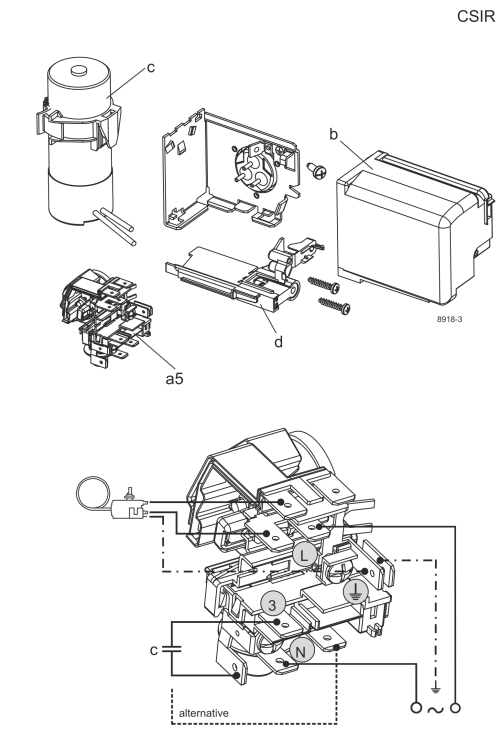
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**31.1 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**31.5 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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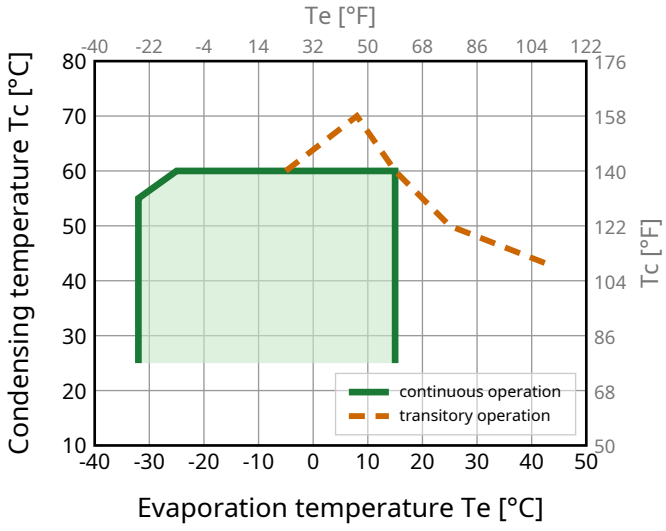
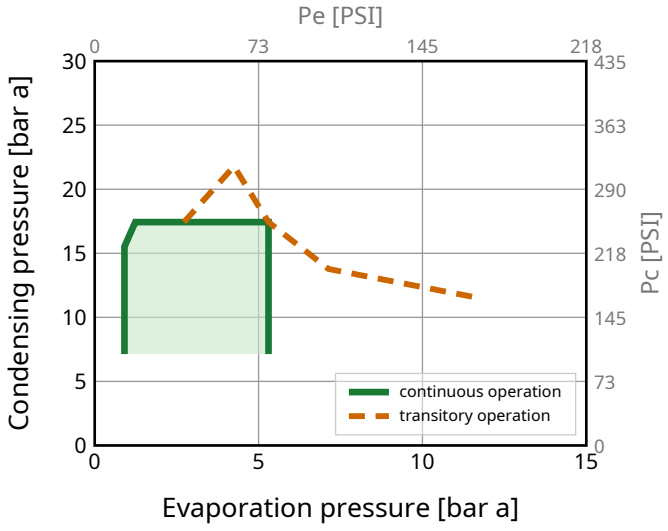
Components
a5 current relay (T1246/L6) 117U7080
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE6.6GFHX Configuration 2

Sales code:
106G6703

Standard Conditions

R513A, 120 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	**259**	882	222	**1.35**	4.61	192	2.69	5.66	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**504**	1719	433	**1.84**	6.28	274	3.27	12.56	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**876**	2989	753	**2.53**	8.63	346	3.85	22.26	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**129**	440	111	**0.95**	3.26	135	2.38	3.25	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**435**	1485	374	**1.81**	6.18	240	3.02	11.79	**EN12900 MBP**
5 41	50 122	20 68	50 122	**733**	2500	630	**2.29**	7.82	320	3.63	21.61	**EN12900 HBP**

Performance Tables

R513A, 120 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]
-32	-26	**148**	504	127	**0.98**	3.34	151	2.45	3.64
-30	-22	**167**	570	144	**1.05**	3.57	160	2.50	4.12
-20	-4	**287**	979	247	**1.43**	4.87	201	2.75	7.12
-10	14	**457**	1558	393	**1.90**	6.48	240	3.02	11.43
0	32	**692**	2360	595	**2.46**	8.40	281	3.32	17.52
10	50	**1007**	3437	866	**3.08**	10.53	327	3.68	25.95
15	59	**1200**	4096	1032	**3.41**	11.62	352	3.89	31.25

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

-32	-26	**117**	400	101	**0.81**	2.78	144	2.41	3.23
-30	-22	**135**	462	116	**0.87**	2.97	155	2.47	3.74
-20	-4	**242**	827	208	**1.16**	3.97	208	2.80	6.74
-10	14	**388**	1326	334	**1.50**	5.13	258	3.15	10.90
0	32	**590**	2011	507	**1.91**	6.50	309	3.55	16.76
10	50	**861**	2937	740	**2.36**	8.05	365	4.00	24.93
15	59	**1028**	3506	884	**2.60**	8.86	396	4.25	30.13