

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

Application Notes

- Recommended 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

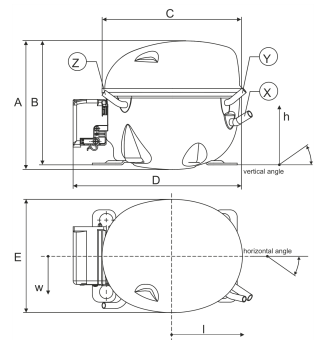
Oil type	POE	Winding resistance main	2 Ohm
Oil viscosity	19,2cSt	Winding resistance aux	5.3 Ohm
Oil quantity	200 / 6.76fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,580 cm³ / 53.43fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

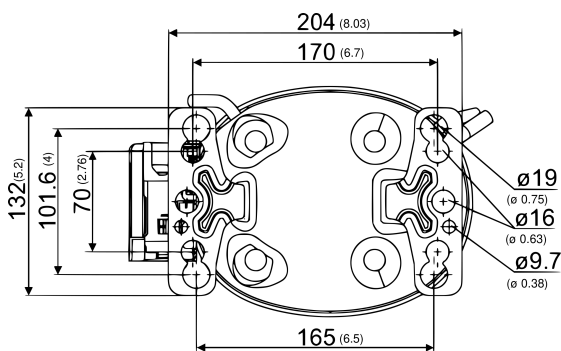
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

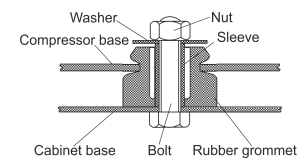


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

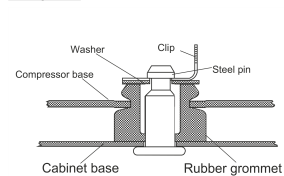
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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

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Configuration 1

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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

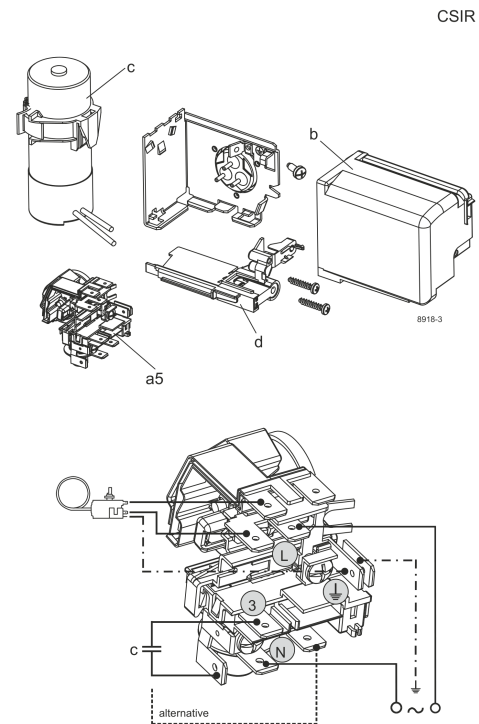
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a5 current relay (T1246/L6) 117U7080

c start capacitor (240µF) 117U5002

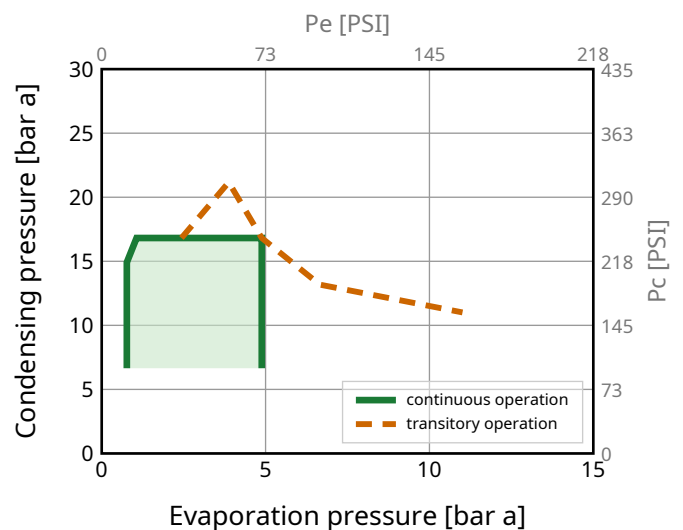
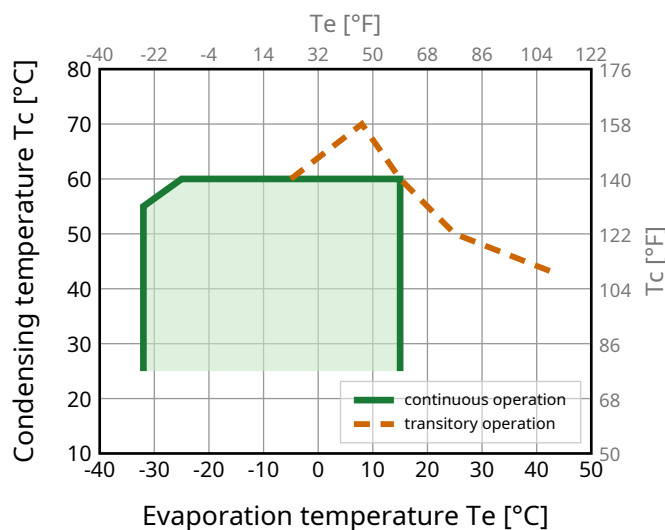
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components

b, d 100x cover + clamp + screws (5VA) 103N2060

b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range



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Standard Conditions

R134a, 120 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	m
[°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