

Model
KLE5.6GFHX

Sales code:
106G6603

Compressor Data

Refrigerant(s)	R134a / R513A
Refr. charge - tech. limit	300g / 10.58oz
Weight	9.50 kg / 20.94lbs
Displacement	5.60 cm3 / 0.34cu.in
Compressors on pallet	100



General – Configurations With KLE5.6GFHX

-	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

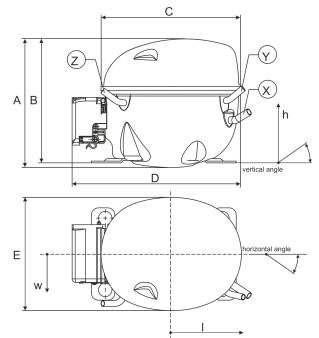
Oil type	POE	Winding resistance main	10.7 Ohm
Oil viscosity	19,2cSt	Winding resistance aux	17 Ohm
Oil quantity	200 / 6.76fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,605 cm³ / 54.27fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

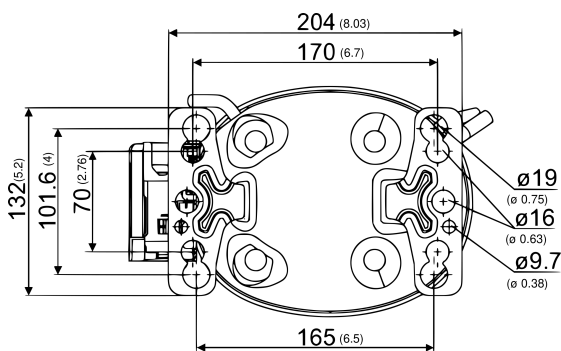
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

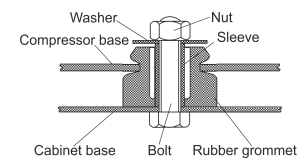


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

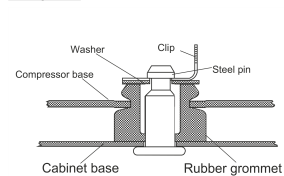
Mounting Accessories



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

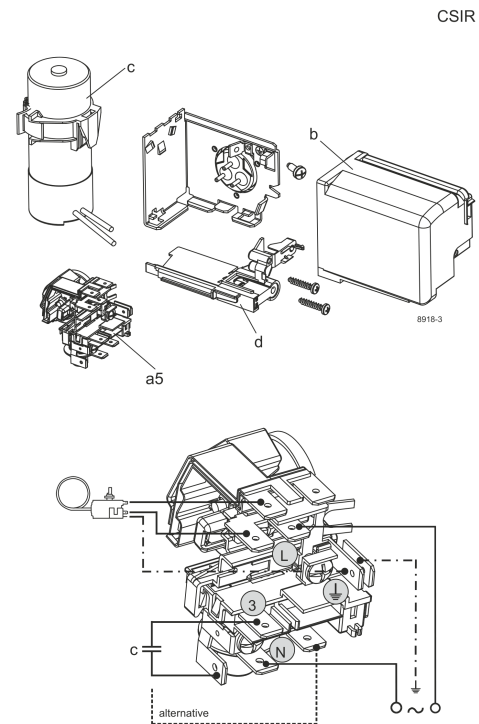
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (T1248/L6) 117U7083

c start capacitor (240µF) 117U5002

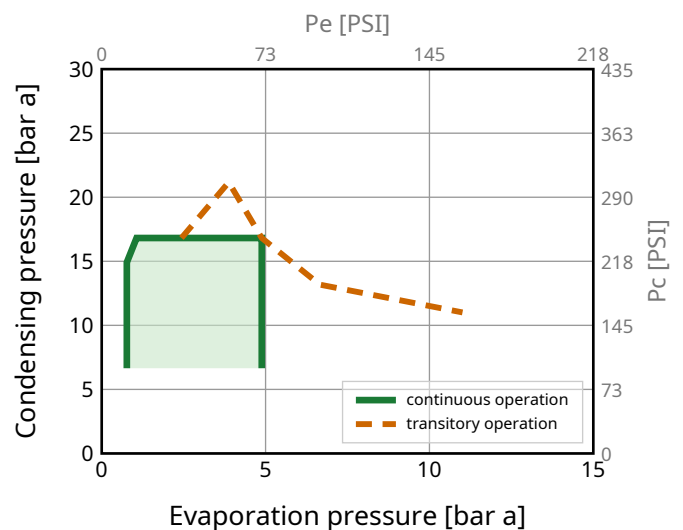
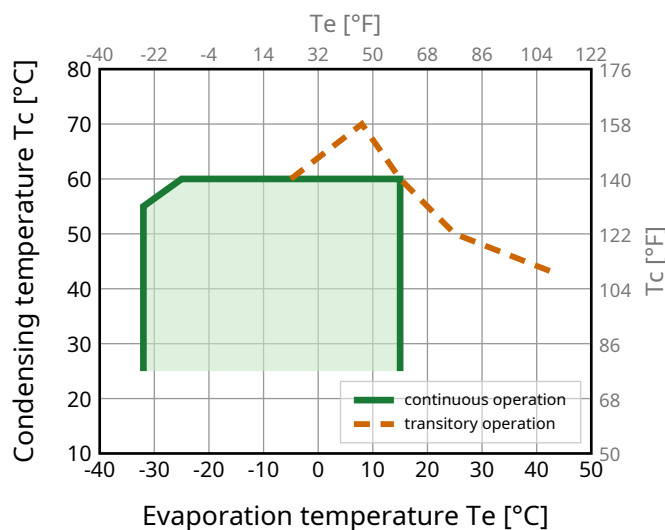
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	194	661	167	1.30	4.42	150	2.44	3.76	ASHRAE LBP
-6.7 20	54.4 129.9	35 95	46.1 115	400	1365	344	1.85	6.32	216	2.85	8.71	ASHRAE MBP
7.2 45	54.4 129.9	35 95	46.1 115	713	2432	613	2.60	8.89	274	3.27	15.78	ASHRAE HBP
-35 -31	40 104	20 68	40 104	91	311	78	0.85	2.91	107	2.26	1.99	EN12900 LBP
-10 14	45 113	20 68	45 113	350	1195	301	1.83	6.24	192	2.68	8.16	EN12900 MBP
5 41	50 122	20 68	50 122	609	2078	524	2.42	8.25	252	3.11	15.28	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	107	366	92	0.90	3.05	120	2.31	2.31
-30	-22	123	421	106	0.97	3.31	127	2.34	2.66
-20	-4	222	757	191	1.38	4.71	161	2.50	4.81
-10	14	363	1238	312	1.89	6.46	192	2.68	7.92
0	32	559	1907	481	2.51	8.57	222	2.89	12.33
10	50	824	2811	709	3.21	10.97	256	3.14	18.44
15	59	987	3367	849	3.58	12.23	275	3.28	22.29

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

-32	-26	87	297	75	0.79	2.69	110	2.26	2.07
-30	-22	102	346	87	0.85	2.89	120	2.30	2.42
-20	-4	189	645	163	1.16	3.96	163	2.52	4.52
-10	14	312	1063	268	1.53	5.22	204	2.76	7.51
0	32	482	1646	415	1.98	6.74	244	3.05	11.77
10	50	716	2442	615	2.48	8.47	288	3.38	17.73
15	59	860	2933	739	2.75	9.39	312	3.56	21.52