

Model
KLE4.8GFHX

Sales code:
106G6503

Compressor Data

Refrigerant(s)	R134a / R513A
Refr. charge - tech. limit	300g / 10.58oz
Weight	9.40 kg / 20.72lbs
Displacement	4.80 cm3 / 0.29cu.in
Compressors on pallet	100



General – Configurations With KLE4.8GFHX

-	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

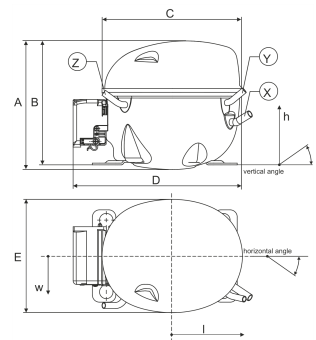
Oil type	POE	Winding resistance main	2 Ohm
Oil viscosity	19,2cSt	Winding resistance aux	8.5 Ohm
Oil quantity	200 / 6.76fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,615 cm³ / 54.61fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

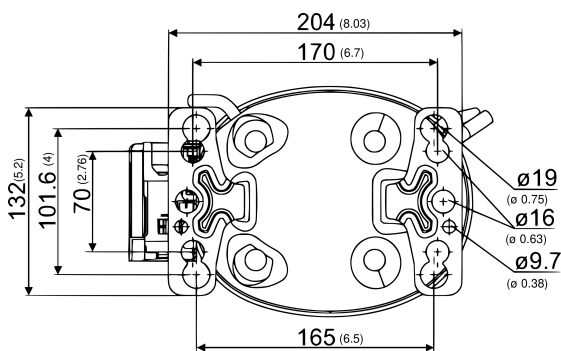
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

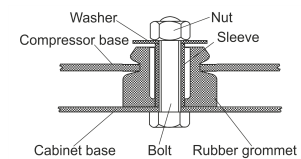


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

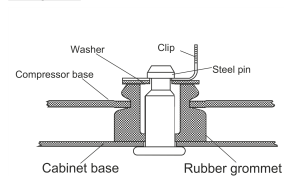
Mounting Accessories



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	80 µF

Ambient/ machine room temperatures minimum /maximum

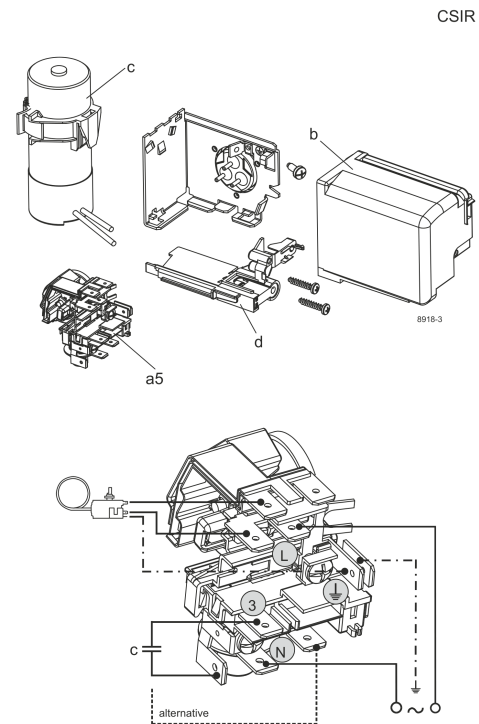
Ambient temperature range: 10 - 43°C / 50 - 109°F

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) 117U7082

c start capacitor (240µF) 117U5002

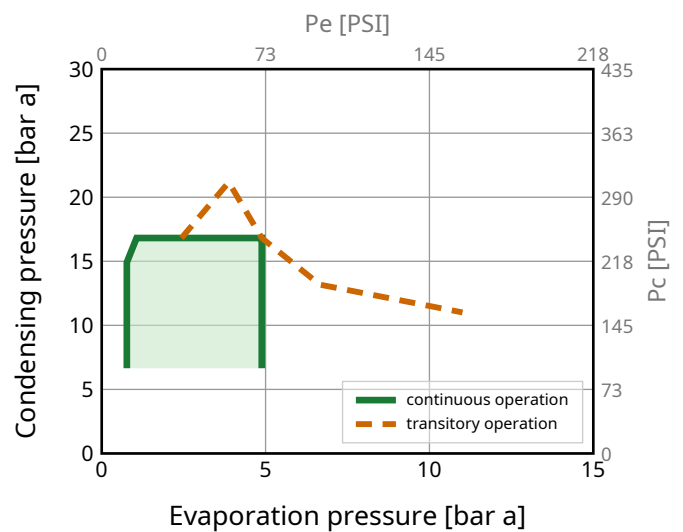
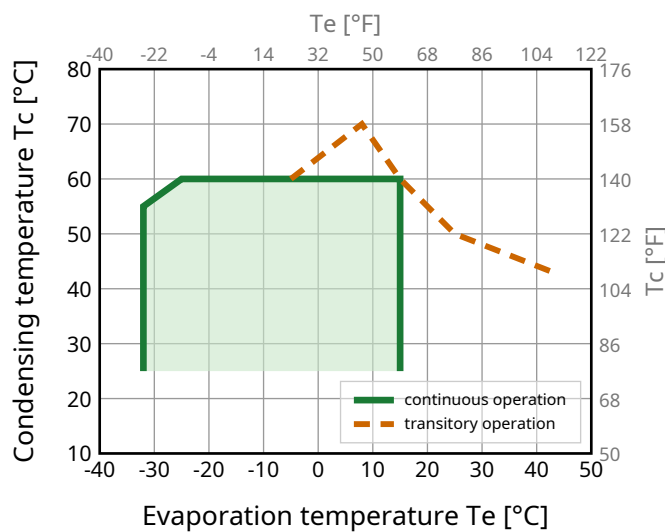
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	162	552	139	1.29	4.42	125	2.02	3.14	ASHRAE LBP
-6.7 20	54.4 129.9	35 95	46.1 115	340	1158	292	1.87	6.39	181	2.34	7.39	ASHRAE MBP
7.2 45	54.4 129.9	35 95	46.1 115	618	2108	531	2.71	9.23	228	2.66	13.67	ASHRAE HBP
-35 -31	40 104	20 68	40 104	82	278	70	0.88	3.00	93	1.89	1.78	EN12900 LBP
-10 14	45 113	20 68	45 113	296	1011	255	1.89	6.44	157	2.19	6.91	EN12900 MBP
5 41	50 122	20 68	50 122	527	1798	453	2.52	8.58	210	2.53	13.22	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	91	311	78	0.92	3.12	100	1.92	1.97
-30	-22	104	355	90	0.99	3.38	105	1.94	2.25
-20	-4	186	635	160	1.42	4.85	131	2.05	4.04
-10	14	307	1047	264	1.96	6.67	157	2.19	6.70
0	32	479	1633	412	2.60	8.88	184	2.35	10.56
10	50	714	2437	614	3.35	11.42	213	2.56	15.98
15	59	860	2933	739	3.75	12.79	229	2.67	19.42

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

-32	-26	75	256	64	0.81	2.75	93	1.88	1.78
-30	-22	86	294	74	0.86	2.93	100	1.91	2.05
-20	-4	158	539	136	1.16	3.94	137	2.08	3.78
-10	14	263	896	226	1.54	5.24	171	2.27	6.33
0	32	413	1410	355	2.02	6.88	205	2.50	10.08
10	50	622	2123	535	2.59	8.85	240	2.75	15.42
15	59	753	2568	647	2.92	9.95	258	2.89	18.84