

Model
KLF5.6CNHS

Sales code:
106H3603

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.50 kg / 20.94lbs
Displacement	5.60 cm3 / 0.34cu.in
Compressors on pallet	100



General – Configurations With KLF5.6CNHS

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz
Number of phases	1
Voltage range	95-140 V
Approvals	UL, CCC
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Very good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

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Compressor Design

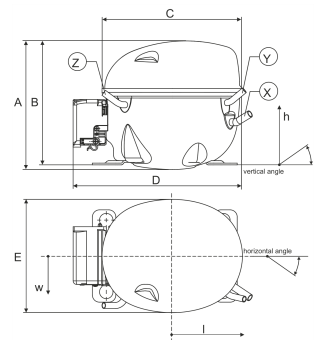
Oil type	POE	Winding resistance main	2.000 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	5.30 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,605 cm ³ / 54.27fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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

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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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Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-140 V
Starting torque	HST
Approvals	UL, CCC
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 (T1217/L6-S5) 117U7075

c start capacitor (240µF) 117U5002

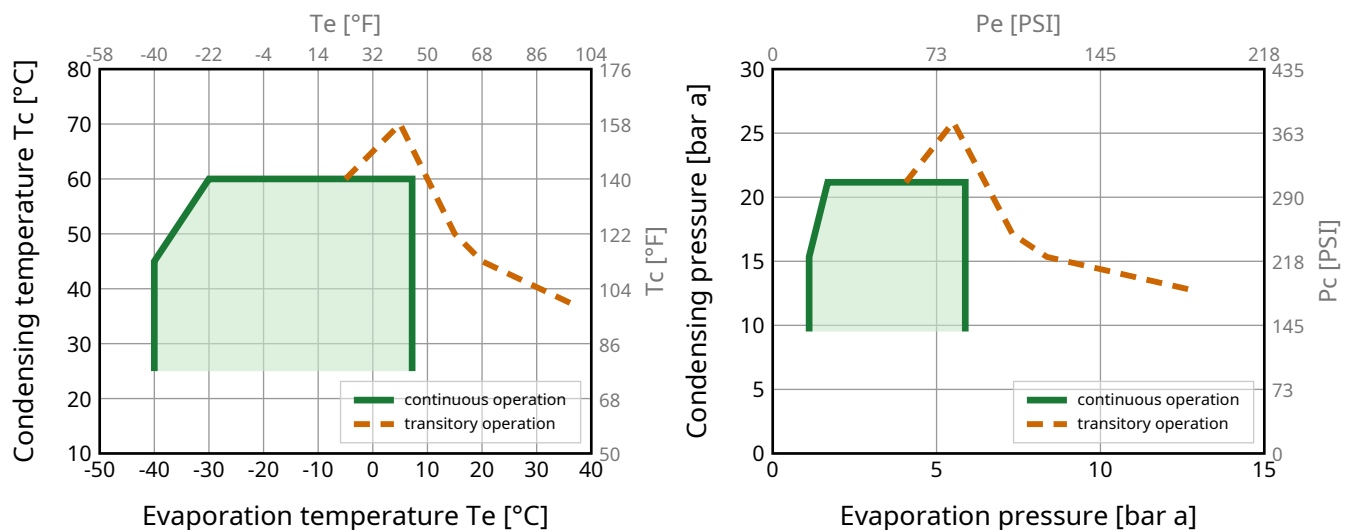
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

R290, 115 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	329	1121	283	1.57	5.37	209	2.75	3.34	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	245	836	211	1.22	4.17	200	2.70	3.07	CECOMAF LBP
-35 -31	40 104	20 68	40 104	183	624	157	1.22	4.15	151	2.44	2.10	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	588	2005	505	2.06	7.01	286	3.25	6.73	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	466	1592	401	1.71	5.83	273	3.16	5.93	CECOMAF MBP
-10 14	45 113	20 68	45 113	520	1773	447	2.09	7.12	249	3.00	6.39	EN12900 MBP

Performance Tables

R290, 115 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]
-40	-40	136	463	117	1.01	3.44	134	2.39	1.52
-30	-22	226	771	194	1.31	4.46	173	2.55	2.56
-20	-4	360	1227	309	1.69	5.76	213	2.77	4.09
-10	14	540	1843	465	2.17	7.40	249	3.00	6.20
0	32	771	2631	663	2.80	9.54	276	3.18	8.97
7.2	45	971	3312	835	3.39	11.57	286	3.26	11.42

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

-40	-40	119	405	102	0.94	3.22	126	2.35	1.48
-30	-22	193	659	166	1.10	3.77	175	2.56	2.41
-20	-4	308	1050	265	1.36	4.65	226	2.85	3.87
-10	14	466	1592	401	1.71	5.83	273	3.16	5.93
0	32	673	2297	579	2.16	7.36	312	3.44	8.68
7.2	45	854	2913	734	2.57	8.78	332	3.60	11.15