

Model
KLF5.6CNDS

Sales code:
106h2603

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.40 kg / 20.72lbs
Displacement	5.60 cm3 / 0.34cu.in
Compressors on pallet	100



General – Configurations With KLF5.6CNDS

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, 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

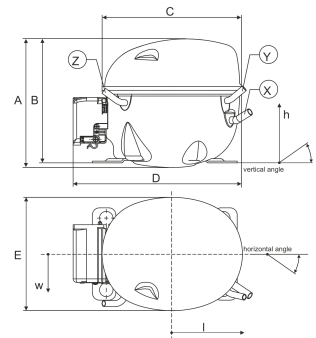
Oil type	POE	Winding resistance main	10.700 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	17.00 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,605 cm ³ / 54.27fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
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)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	11.4 A
RLA (rated load amps / 1s/ U(N))	1.6 A
Cut in current (U(N))	10.7 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 (T0089/L6-S2) 117U7070

c start capacitor (80µF, 6.3mm) 117U5001

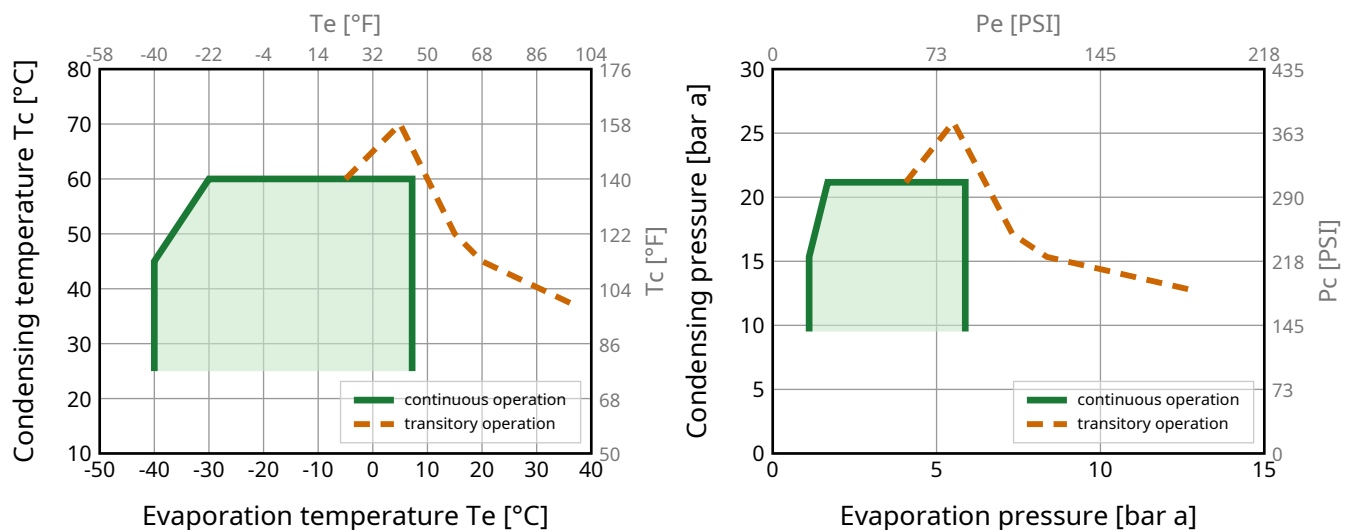
b, d cover + clamp + screws (5VA-compl.) 103N0600

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, 220 V/50 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	266	906	228	1.51	5.17	175	1.21	2.70	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	197	671	169	1.16	3.96	169	1.19	2.46	CECOMAF LBP
-35 -31	40 104	20 68	40 104	144	491	124	1.18	4.02	122	1.06	1.65	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	477	1629	411	2.02	6.90	236	1.42	5.47	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	378	1291	326	1.68	5.72	226	1.38	4.81	CECOMAF MBP
-10 14	45 113	20 68	45 113	420	1434	362	2.04	6.97	206	1.30	5.17	EN12900 MBP

Performance Tables

R290, 220 V/50 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	109	371	93	0.95	3.23	115	1.05	1.22
-30	-22	184	628	158	1.27	4.34	145	1.12	2.08
-20	-4	290	990	249	1.65	5.61	176	1.21	3.30
-10	14	437	1491	376	2.12	7.24	206	1.30	5.02
0	32	635	2167	546	2.77	9.43	230	1.39	7.39
7.2	45	815	2782	701	3.38	11.54	241	1.43	9.59

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

-40	-40	73	250	63	0.64	2.18	115	1.05	0.91
-30	-22	151	514	130	1.00	3.42	150	1.13	1.88
-20	-4	249	850	214	1.32	4.51	188	1.25	3.13
-10	14	378	1291	326	1.68	5.72	226	1.38	4.81
0	32	550	1875	473	2.12	7.24	259	1.50	7.09
7.2	45	704	2402	605	2.54	8.65	278	1.57	9.20