

Model
KLF6.6CNDS

Sales code:
106h2703

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.50 kg / 20.94lbs
Displacement	6.60 cm3 / 0.40cu.in
Compressors on pallet	100



General – Configurations With KLF6.6CNDS

-	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

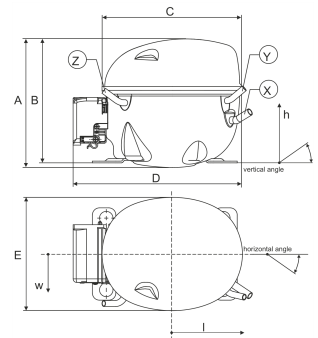
Oil type	POE	Winding resistance main	8.400 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	11.90 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,583 cm3 / 53.53fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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

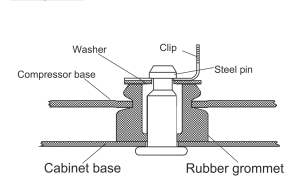
Mounting Accessories



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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Motor configuration	CSIR
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))	13.2 A
RLA (rated load amps / 1s/ U(N))	2.1 A
Cut in current (U(N))	12.3 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 (T0377/L6-S1) 117U7071

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

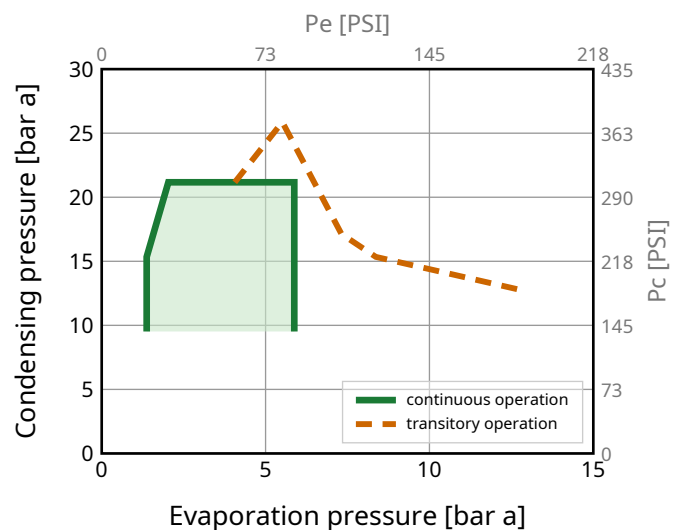
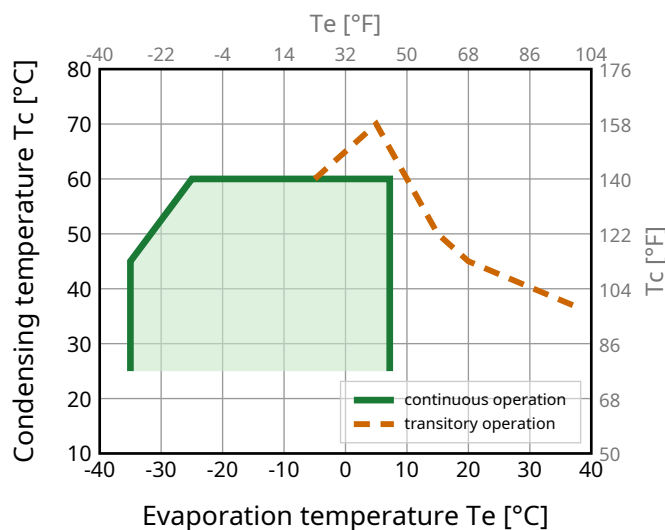
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	327	1115	281	1.48	5.04	221	1.58	3.32	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	243	828	209	1.14	3.88	214	1.55	3.04	CECOMAF LBP
-35 -31	40 104	20 68	40 104	182	620	156	1.17	4.01	155	1.41	2.08	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	575	1962	494	1.96	6.70	293	1.80	6.58	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	458	1564	394	1.63	5.55	282	1.76	5.83	CECOMAF MBP
-10 14	45 113	20 68	45 113	508	1732	437	1.99	6.80	254	1.67	6.25	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]
-35	-31	172	586	148	1.09	3.72	158	1.42	1.94
-30	-22	224	765	193	1.25	4.25	180	1.46	2.53
-20	-4	354	1209	305	1.61	5.49	220	1.57	4.03
-10	14	528	1801	454	2.07	7.07	254	1.67	6.06
0	32	756	2580	650	2.68	9.15	282	1.76	8.79
7.2	45	961	3279	827	3.24	11.04	297	1.82	11.31

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

-35	-31	135	460	116	0.84	2.88	160	1.42	1.68
-30	-22	186	635	160	0.99	3.39	188	1.49	2.33
-20	-4	306	1044	263	1.28	4.38	238	1.62	3.85
-10	14	458	1564	394	1.63	5.55	282	1.76	5.83
0	32	655	2236	564	2.06	7.04	318	1.89	8.45
7.2	45	831	2835	715	2.46	8.38	338	1.97	10.86