

Model
KLF7.7CNHS

Sales code:
106H3803

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.70 kg / 21.38lbs
Displacement	7.70 cm3 / 0.47cu.in
Compressors on pallet	100



General – Configurations With KLF7.7CNHS

-	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	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
- Compressor comes on a wooden pallet
- Very good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

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Compressor Design

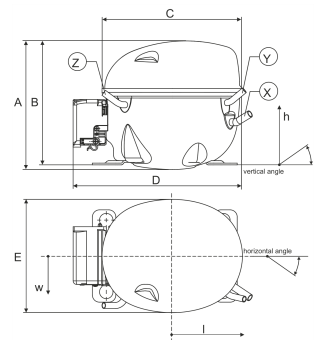
Oil type	POE	Winding resistance main	1.420 Ohm
Oil viscosity	19,2cSt	Winding resistance aux	5.90 Ohm
Oil quantity	170 / 5.75fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,575 cm ³ / 53.26fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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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Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
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))	35.6 A
RLA (rated load amps / 1s/ U(N))	4.9 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 (T1141/L6-S6) 117U7078

c start capacitor (240µF) 117U5002

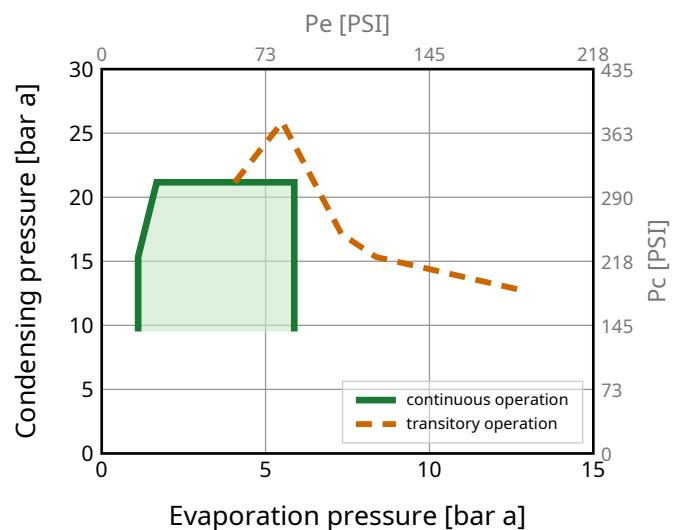
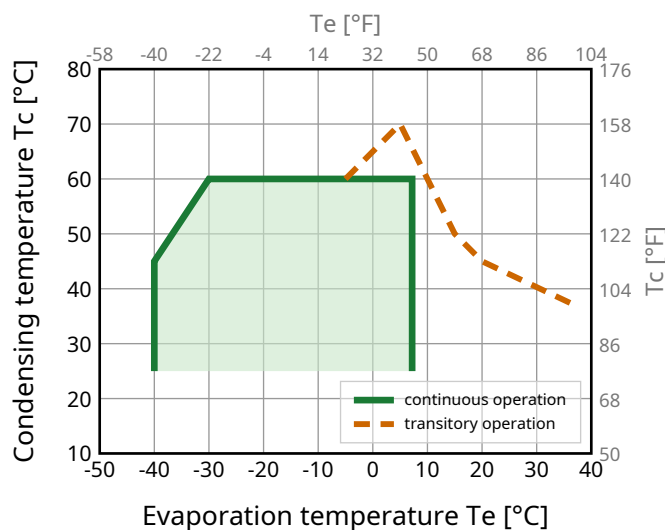
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	445	1517	382	1.50	5.11	297	3.46	4.52	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	334	1138	287	1.16	3.97	286	3.39	4.18	CECOMAF LBP
-35 -31	40 104	20 68	40 104	257	876	221	1.24	4.22	208	2.89	2.95	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	785	2680	675	1.95	6.64	403	4.26	8.99	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	624	2129	537	1.61	5.51	386	4.13	7.94	CECOMAF MBP
-10 14	45 113	20 68	45 113	720	2458	620	1.98	6.74	364	3.96	8.87	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	174	595	150	1.00	3.42	174	2.69	1.96
-30	-22	313	1069	270	1.29	4.42	242	3.10	3.54
-20	-4	500	1708	430	1.63	5.55	308	3.54	5.69
-10	14	749	2556	644	2.06	7.01	364	3.96	8.60
0	32	1072	3657	922	2.63	8.96	408	4.30	12.46
7.2	45	1358	4633	1168	3.17	10.82	428	4.46	15.97

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

-40	-40	155	527	133	0.86	2.93	180	2.72	1.92
-30	-22	264	900	227	1.05	3.59	251	3.15	3.29
-20	-4	416	1419	358	1.29	4.41	322	3.64	5.23
-10	14	624	2129	537	1.61	5.51	386	4.13	7.94
0	32	902	3076	775	2.04	6.98	441	4.56	11.62
7.2	45	1152	3929	990	2.45	8.36	470	4.80	15.04