

Model

KLF7.7CNQX

Sales code:

106H2809

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.12 kg / 20.11lbs
Displacement	7.70 cm3 / 0.47cu.in
Compressors on pallet	100



General – Configurations With KLF7.7CNQX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	VDE
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

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Compressor Design

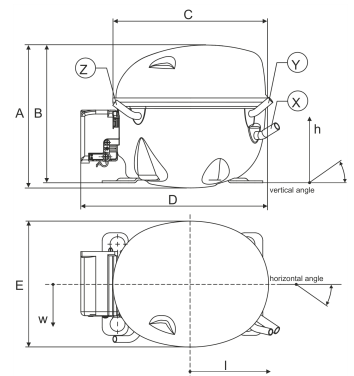
Oil type	POE	Motor protection	external
Oil viscosity	19,2cSt	Max. winding temp.	125 °C
Oil quantity	240 / 8.12fl.oz	Max. discharge temp.	130°C / 266°F
Free gas volume comp.	1,575 cm3 / 53.26fl.oz		

Compressor Dimensions

Housing

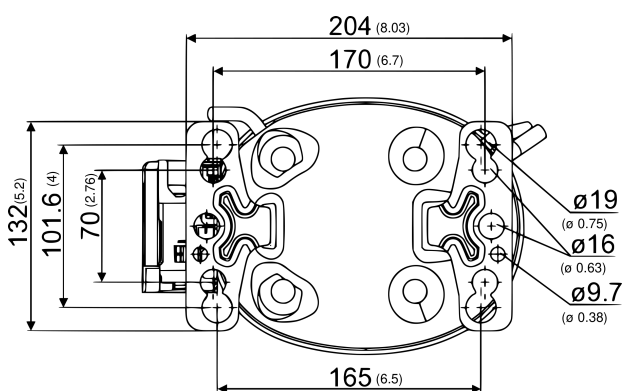
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

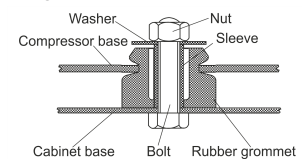


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

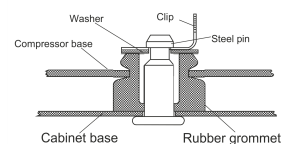
Mounting Accessories



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	187-254 V
Starting torque	HST
Approvals	VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	14.3 A
RLA (rated load amps / 1s/ U(N))	2.3 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



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Components

a5 current relay (T1247/L6) 117U7084

c start capacitor (80µF, 6.3mm) 117U5003

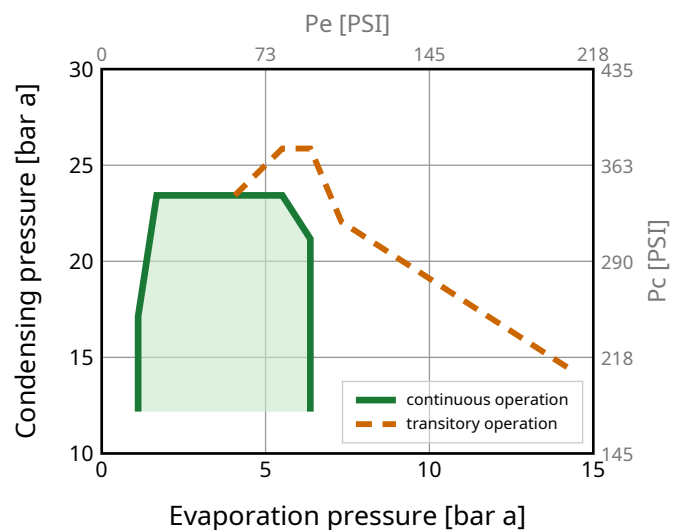
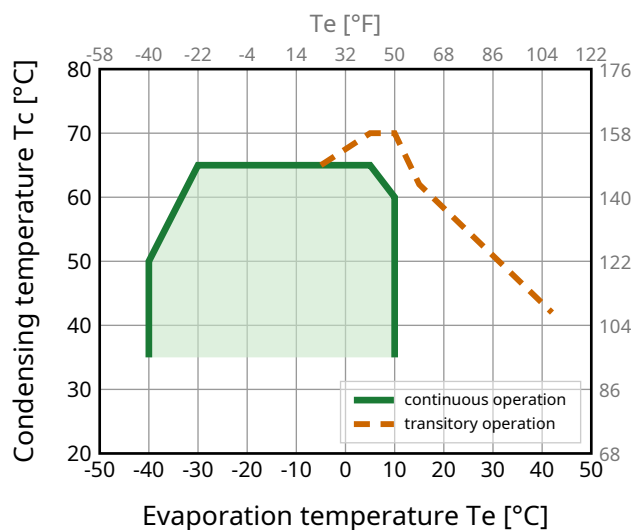
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	396	1353	341	1.58	5.40	250	1.73	4.03	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	295	1006	254	1.22	4.15	242	1.71	3.69	CECOMAF LBP
-35 -31	40 104	20 68	40 104	218	743	187	1.21	4.14	179	1.59	2.50	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	704	2403	606	2.05	7.00	343	2.00	8.06	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	561	1915	483	1.72	5.86	327	1.94	7.14	CECOMAF MBP
-10 14	45 113	20 68	45 113	618	2110	532	2.08	7.09	298	1.85	7.61	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	152	518	131	0.91	3.12	166	1.59	1.71
-30	-22	271	924	233	1.32	4.50	205	1.63	3.06
-20	-4	432	1474	371	1.71	5.84	252	1.73	4.91
-10	14	643	2194	553	2.16	7.37	298	1.85	7.38
0	32	912	3111	784	2.74	9.36	332	1.96	10.60
10	50	1246	4252	1072	3.59	12.26	347	2.03	14.74

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

-40	-40	120	409	103	0.67	2.29	179	1.60	1.49
-30	-22	228	776	196	1.05	3.58	217	1.65	2.84
-20	-4	372	1270	320	1.38	4.71	270	1.78	4.68
-10	14	561	1915	483	1.72	5.86	327	1.94	7.14
0	32	803	2739	690	2.12	7.23	379	2.12	10.35
10	50	1104	3768	950	2.65	9.03	417	2.26	14.51