

Model
KLF4.0CNHS

Sales code:
106H3403

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	8.30 kg / 18.30lbs
Displacement	4.00 cm3 / 0.24cu.in
Compressors on pallet	100



General - Configurations With KLF4.0CNHS

-	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

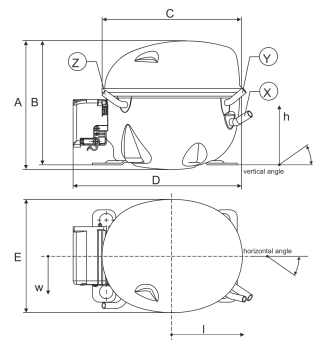
Oil type	POE	Winding resistance main	3.400 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	8.00 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,630 cm³ / 55.12fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

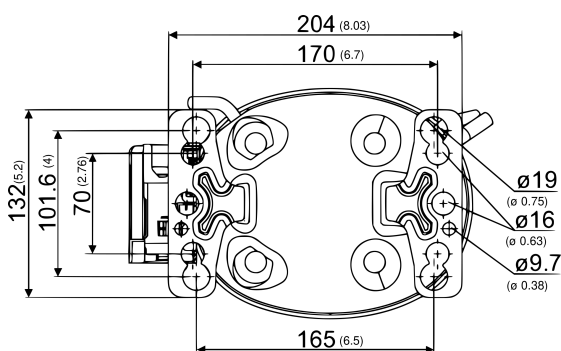
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[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

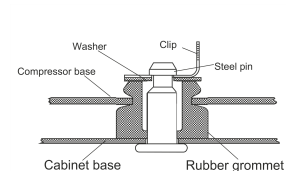
Mounting Accessories



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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Motor configuration	CSIR
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))	21.2 A
RLA (rated load amps / 1s/ U(N))	2.7 A
Cut in current (U(N))	20.5 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


[View full size](#)

Components

a5 current relay (T1209/L6-S4) 117U7074

c start capacitor (240µF) 117U5002

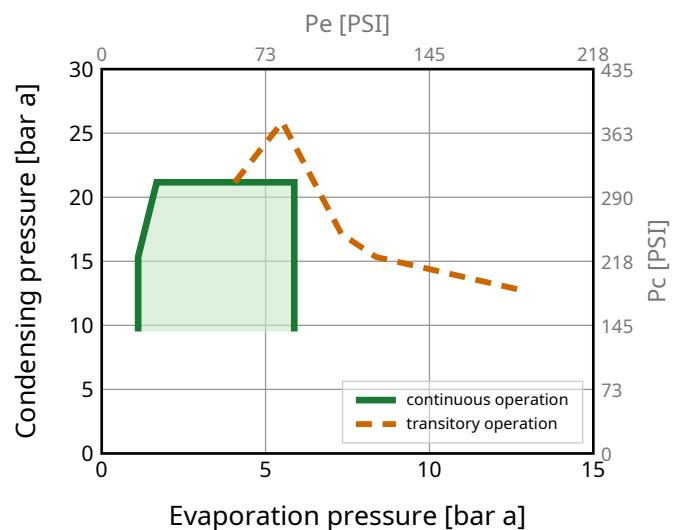
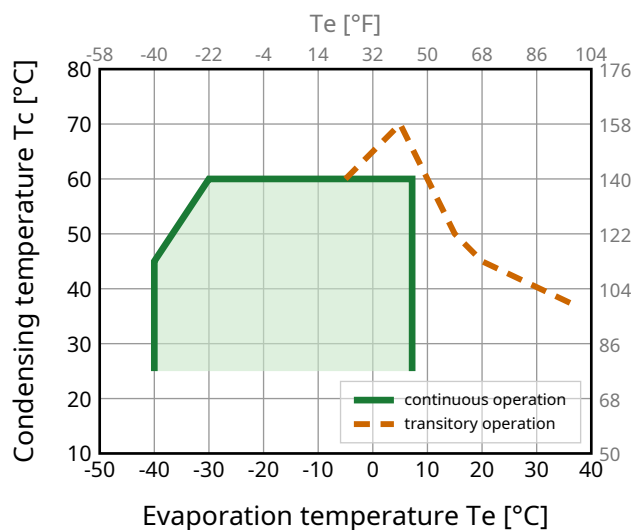
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	221	755	190	1.46	4.98	152	1.90	2.25	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	164	558	141	1.11	3.79	147	1.87	2.05	CECOMAF LBP
-35 -31	40 104	20 68	40 104	123	419	106	1.02	3.49	120	1.72	1.41	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	404	1377	347	2.04	6.96	198	2.22	4.62	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	320	1092	275	1.68	5.73	191	2.17	4.07	CECOMAF MBP
-10 14	45 113	20 68	45 113	363	1240	312	2.09	7.12	174	2.05	4.47	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	79	269	68	0.69	2.36	114	1.69	0.89
-30	-22	154	524	132	1.18	4.02	130	1.77	1.74
-20	-4	250	853	215	1.64	5.61	152	1.90	2.85
-10	14	378	1289	325	2.17	7.41	174	2.05	4.34
0	32	546	1863	470	2.86	9.77	191	2.17	6.35
7.2	45	698	2382	600	3.54	12.09	197	2.22	8.21

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

-40	-40	51	174	44	0.47	1.60	109	1.65	0.64
-30	-22	123	419	106	0.92	3.15	133	1.78	1.53
-20	-4	209	713	180	1.29	4.41	162	1.97	2.63
-10	14	320	1092	275	1.68	5.73	191	2.17	4.07
0	32	465	1587	400	2.17	7.41	214	2.35	6.00
7.2	45	596	2034	513	2.65	9.03	225	2.43	7.79