

Model
KLF4.8CNHS

Sales code:
106H3503

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.40 kg / 20.72lbs
Displacement	4.80 cm3 / 0.29cu.in
Compressors on pallet	100



General – Configurations With KLF4.8CNHS

-	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

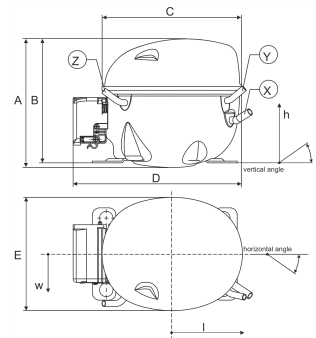
Oil type	POE	Winding resistance main	2 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	8.5 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,615 cm ³ / 54.61fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

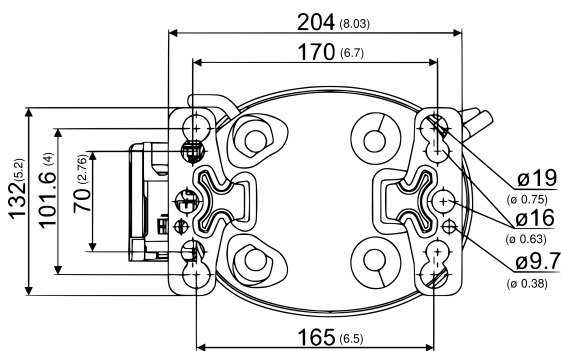
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

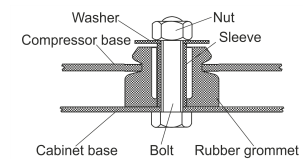


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

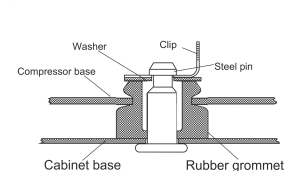
Mounting Accessories



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))	29.8 A
RLA (rated load amps / 1s/ U(N))	4.3 A
Cut in current (U(N))	30.1 A

Ambient/ machine room temperatures minimum /maximum

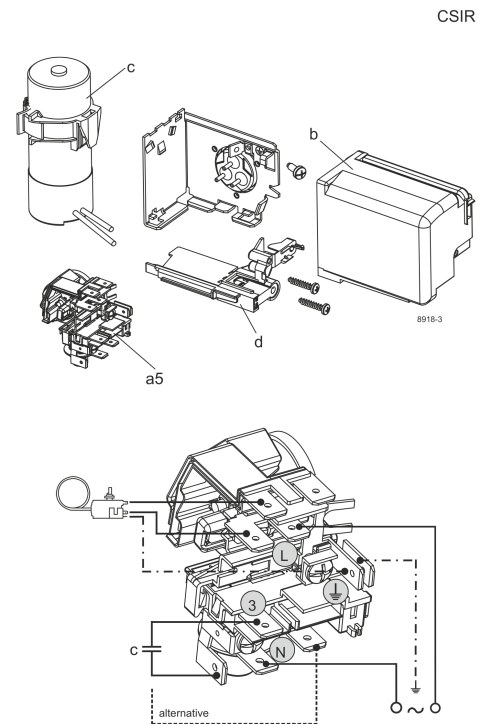
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (T1217/L6-S5) 117U7072

c start capacitor (240µF) 117U5002

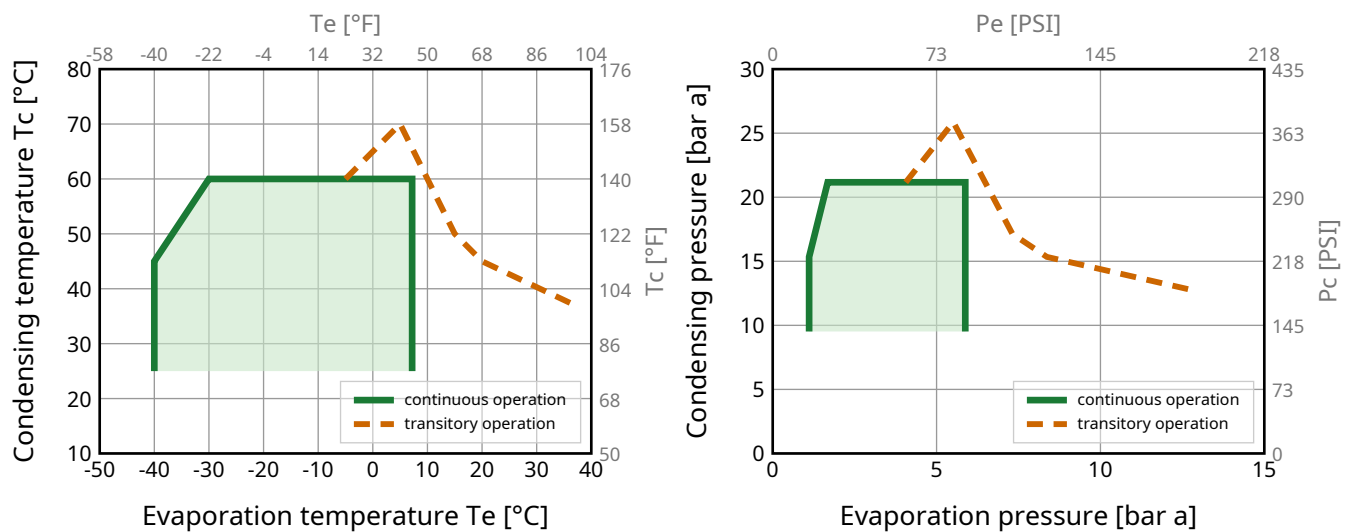
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	270	921	232	1.52	5.20	177	2.76	2.74	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	201	685	173	1.18	4.02	170	2.72	2.52	CECOMAF LBP
-35 -31	40 104	20 68	40 104	151	516	130	1.14	3.90	132	2.58	1.74	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	490	1673	422	2.02	6.89	243	3.12	5.61	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	388	1322	333	1.68	5.72	231	3.05	4.93	CECOMAF MBP
-10 14	45 113	20 68	45 113	437	1490	376	2.02	6.88	217	2.96	5.38	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	110	374	94	0.93	3.18	117	2.54	1.23
-30	-22	187	637	161	1.24	4.24	150	2.64	2.11
-20	-4	300	1024	258	1.62	5.54	185	2.79	3.41
-10	14	454	1549	391	2.10	7.15	217	2.96	5.21
0	32	654	2231	562	2.71	9.25	241	3.11	7.60
7.2	45	829	2828	713	3.29	11.22	252	3.18	9.75

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

-40	-40	96	327	82	0.85	2.92	112	2.51	1.19
-30	-22	158	537	135	1.05	3.59	150	2.63	1.97
-20	-4	253	864	218	1.32	4.52	191	2.83	3.19
-10	14	388	1322	333	1.68	5.72	231	3.05	4.93
0	32	566	1929	486	2.12	7.25	266	3.27	7.29
7.2	45	724	2469	622	2.53	8.65	286	3.41	9.45