

Model
KLF4.8CNDS

Sales code:
106H2503

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.20 kg / 20.28lbs
Displacement	4.80 cm³ / 0.29cu.in
Compressors on pallet	100



General - Configurations With KLF4.8CNDS

-	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

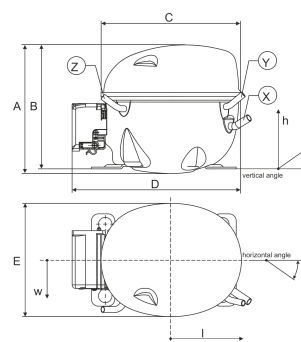
Oil type	POE	Winding resistance main	13.1 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	25.3 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,615 cm ³ / 54.61fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

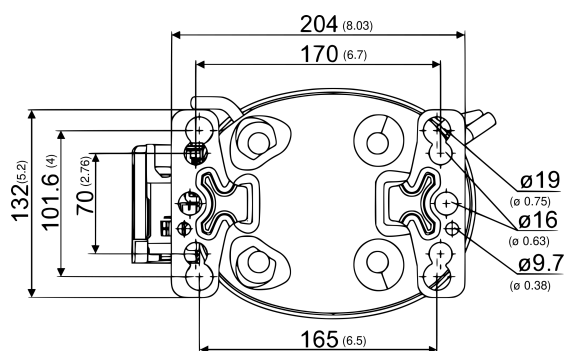
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

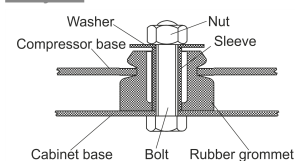


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

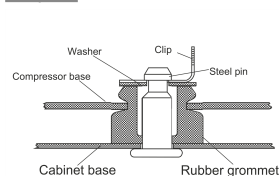
Mounting Accessories



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))	10.2 A
RLA (rated load amps / 1s/ U(N))	1.4 A
Cut in current (U(N))	12.65 A

Ambient/ machine room temperatures minimum /maximum

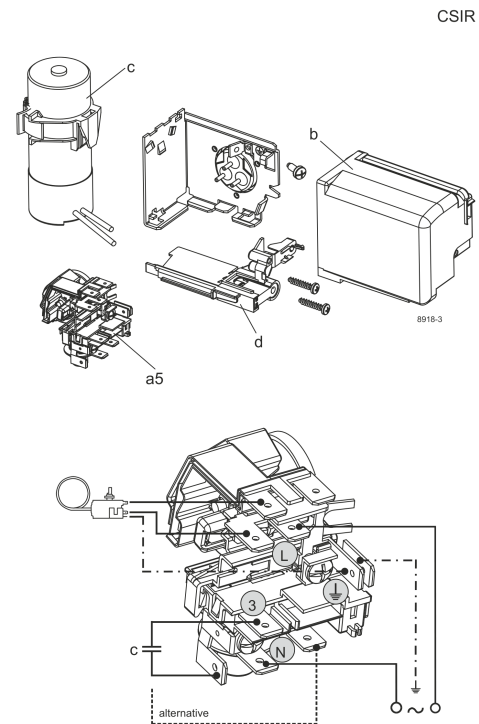
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (T1189/L6-S3) 117U7073

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

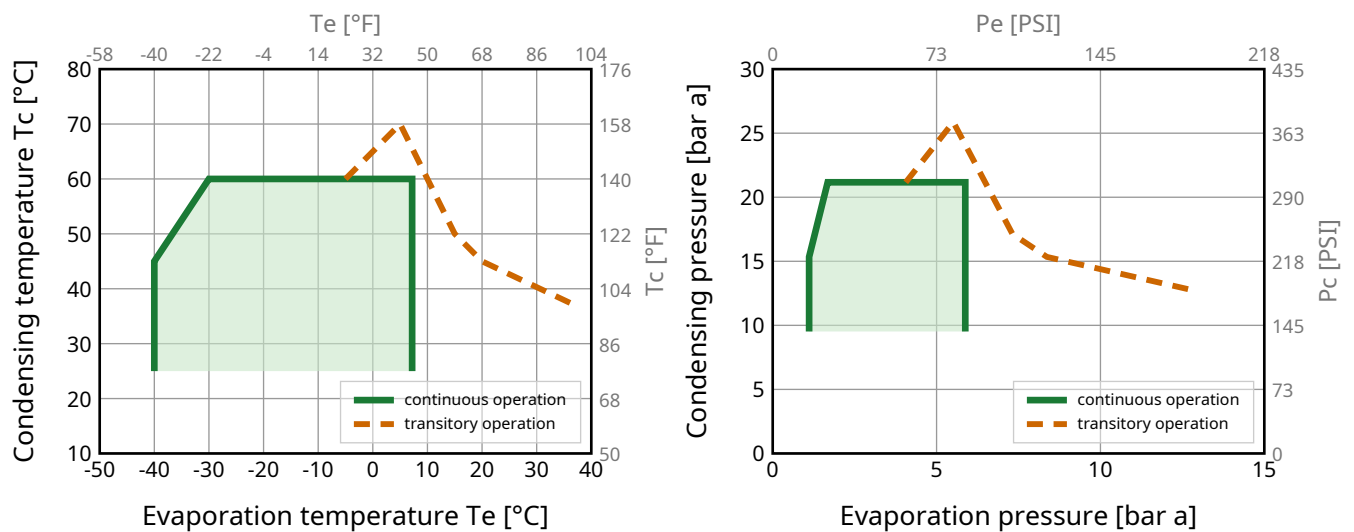
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	223	762	192	1.47	5.01	152	1.06	2.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	165	564	142	1.12	3.83	147	1.05	2.07	CECOMAF LBP
-35 -31	40 104	20 68	40 104	122	418	105	1.04	3.57	117	0.97	1.41	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	396	1350	340	2.02	6.88	196	1.21	4.53	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	315	1073	271	1.66	5.67	189	1.19	4.00	CECOMAF MBP
-10 14	45 113	20 68	45 113	355	1212	306	2.08	7.09	171	1.12	4.37	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	76	259	65	0.71	2.43	107	0.95	0.85
-30	-22	156	531	134	1.19	4.07	130	1.00	1.76
-20	-4	249	850	214	1.64	5.59	152	1.06	2.83
-10	14	369	1260	318	2.16	7.37	171	1.12	4.24
0	32	530	1807	456	2.83	9.64	187	1.18	6.16
7.2	45	677	2311	582	3.43	11.69	198	1.22	7.97

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

-40	-40	50	171	43	0.49	1.68	101	0.93	0.62
-30	-22	125	428	108	0.95	3.23	132	1.01	1.57
-20	-4	209	714	180	1.29	4.41	162	1.09	2.63
-10	14	315	1073	271	1.66	5.67	189	1.19	4.00
0	32	455	1551	391	2.12	7.23	215	1.28	5.86
7.2	45	584	1993	502	2.52	8.60	232	1.34	7.63