

Model
KLF4.0CNH

Sales code:
106H3411

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 KLF4.0CNH

-	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

- Electrical equipment is included and pre-assembled to compressor.
- Operation possible until tilted up to 3 degrees
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

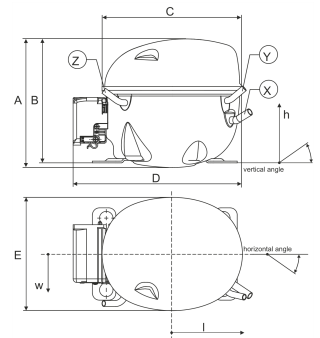
Oil type	POE	Winding resistance main	3.4 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	8 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,630 cm ³ / 55.12fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

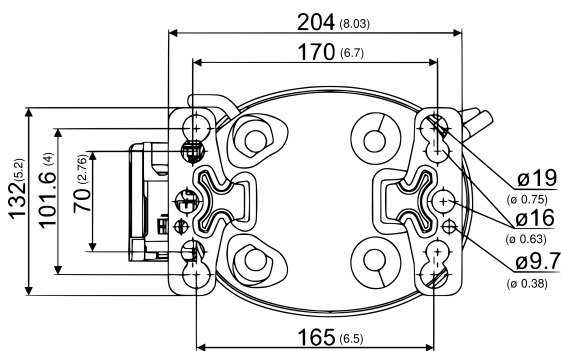
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

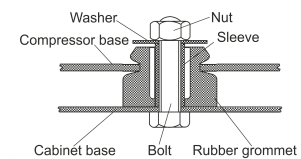


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

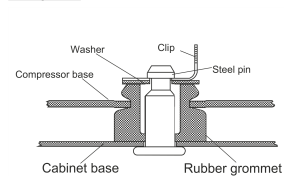
Mounting Accessories



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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Configuration 1

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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

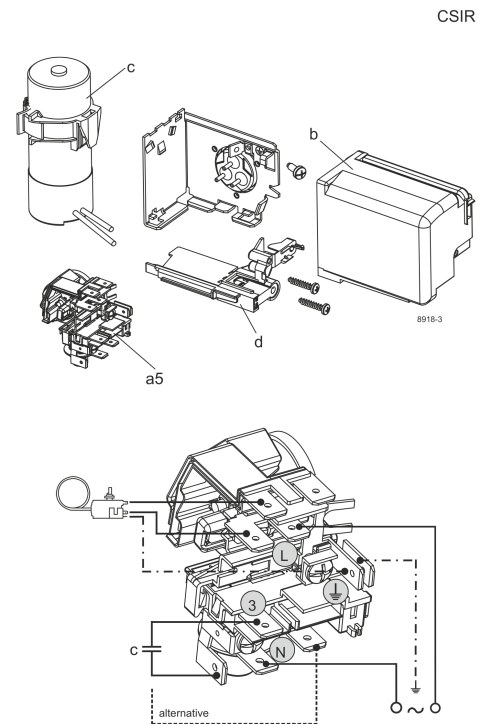
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (already pre-assembled)

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

c start capacitor (240µF) 117U5002

. cable clamp 16058100

b cover terminal board 10636401

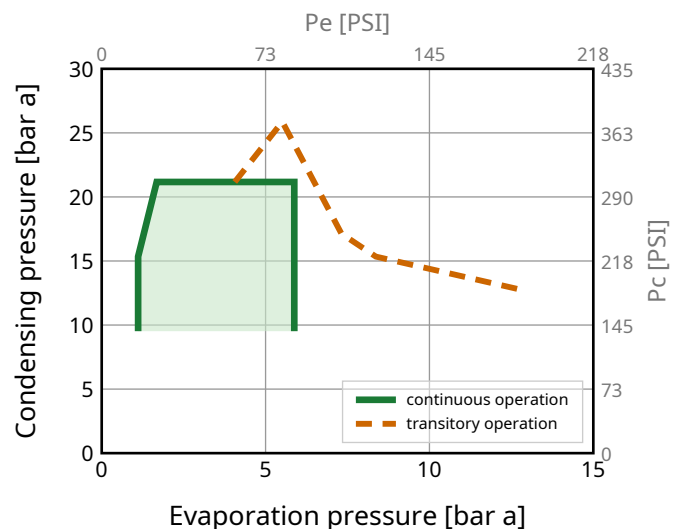
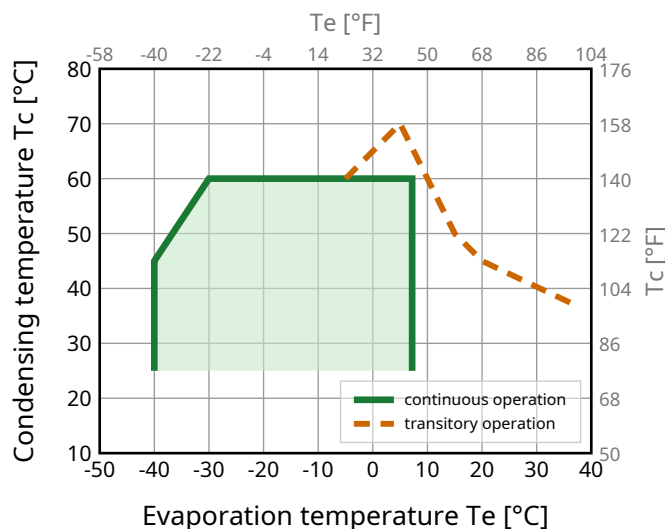
. screw uni en iso 4757 10641201

. screw - uni6954 10636000

Alternative components

. screw - uni6954 10636200

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	229	782	197	1.50	5.10	153	1.92	2.33	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	169	578	146	1.14	3.89	149	1.89	2.12	CECOMAF LBP
-35 -31	40 104	20 68	40 104	127	434	109	1.05	3.58	121	1.73	1.46	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	418	1428	360	2.09	7.13	200	2.25	4.79	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	332	1132	285	1.72	5.87	193	2.19	4.22	CECOMAF MBP
-10 14	45 113	20 68	45 113	377	1285	324	2.14	7.31	176	2.07	4.63	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	82	279	70	0.71	2.42	115	1.71	0.92
-30	-22	159	544	137	1.21	4.12	132	1.79	1.80
-20	-4	259	885	223	1.69	5.75	154	1.93	2.95
-10	14	392	1336	337	2.23	7.59	176	2.07	4.50
0	32	566	1932	487	2.93	10.01	193	2.20	6.58
7.2	45	724	2469	622	3.63	12.39	199	2.24	8.51

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

-40	-40	53	181	46	0.48	1.64	110	1.67	0.66
-30	-22	127	434	109	0.95	3.23	134	1.80	1.59
-20	-4	217	740	186	1.32	4.52	164	1.99	2.73
-10	14	332	1132	285	1.72	5.87	193	2.19	4.22
0	32	482	1645	415	2.23	7.60	217	2.37	6.22
7.2	45	618	2108	531	2.71	9.26	228	2.46	8.07