

Model
KLF4.8CNH

Sales code:
106H3505

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 KLF4.8CNH

-	Conf. 1	Conf. 2
Motor configuration	CSIR	RSCR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-140 V	95-140 V
Approvals	UL, CCC	UL, CCC
Starting torque	HST	LST
Refrigerant	R290	R290
Application	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Housing with dip-tray fixture (omega bracket).
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

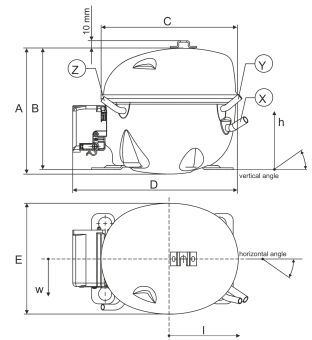
Oil type	POE	Winding resistance main	2.000 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	8.50 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,615 cm ³ / 54.61fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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

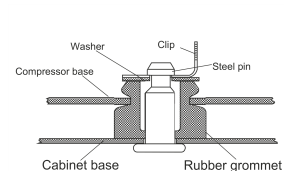
Mounting Accessories



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

Model
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Configuration 1

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Configuration

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



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Components

a5 current relay (T1217/L6-S5) 117U7072

c start capacitor (240µF) 117U5002

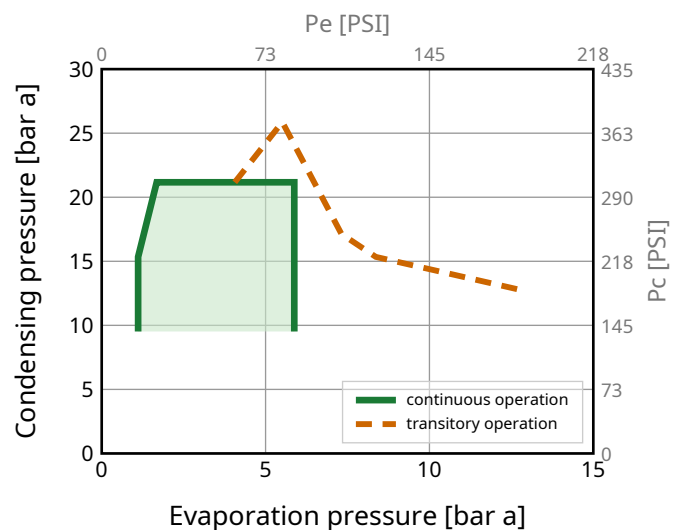
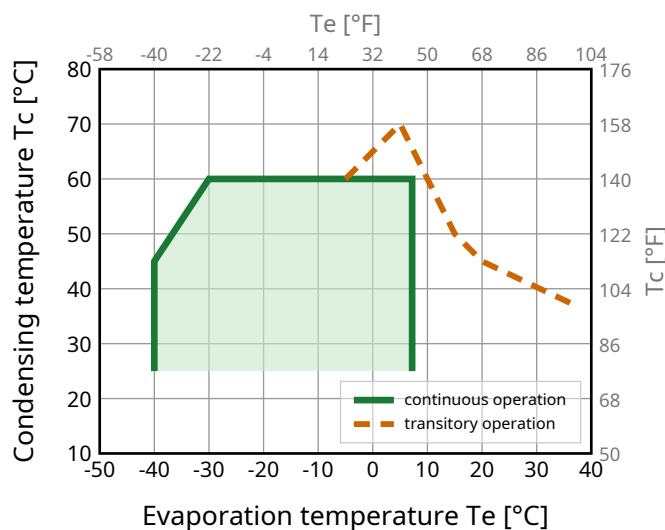
b, d cover + clamp + screws (5VA-compl.) 103N0600

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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Configuration 1

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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	280	954	240	1.56	5.33	179	2.79	2.84	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	208	710	179	1.21	4.13	172	2.75	2.61	CECOMAF LBP
-35 -31	40 104	20 68	40 104	157	535	135	1.17	4.00	134	2.60	1.80	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	508	1733	437	2.07	7.07	245	3.16	5.82	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	402	1370	345	1.72	5.86	234	3.08	5.11	CECOMAF MBP
-10 14	45 113	20 68	45 113	453	1544	389	2.07	7.05	219	2.99	5.57	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	114	387	98	0.96	3.27	119	2.57	1.28
-30	-22	194	661	166	1.27	4.35	152	2.67	2.19
-20	-4	311	1061	267	1.66	5.68	187	2.82	3.54
-10	14	470	1605	405	2.15	7.33	219	2.99	5.40
0	32	678	2312	583	2.78	9.48	244	3.15	7.88
7.2	45	859	2930	739	3.37	11.50	255	3.22	10.10

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

-40	-40	99	338	85	0.88	2.99	113	2.54	1.23
-30	-22	163	557	140	1.08	3.68	151	2.66	2.04
-20	-4	262	895	226	1.36	4.64	193	2.86	3.30
-10	14	402	1370	345	1.72	5.86	234	3.08	5.11
0	32	586	1999	504	2.18	7.43	269	3.31	7.56
7.2	45	750	2558	645	2.60	8.86	288	3.44	9.79

Model

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Configuration 2

Sales code:

106H3505

Configuration

Motor configuration	RSCR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-140 V
Starting torque	LST
Approvals	UL, CCC
Starting device type	PTC
Run capacitor	15 μF
Start capacitor	-/-
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

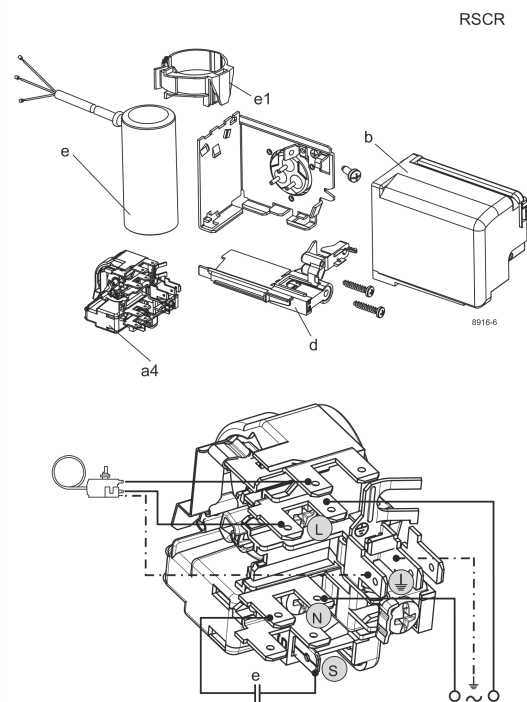
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a4 DLS5 (PTC,6.3mm, T1217/L6 - S5) 103N0212

e run capacitor (15 μ F, 6,3mm) 117-7153

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

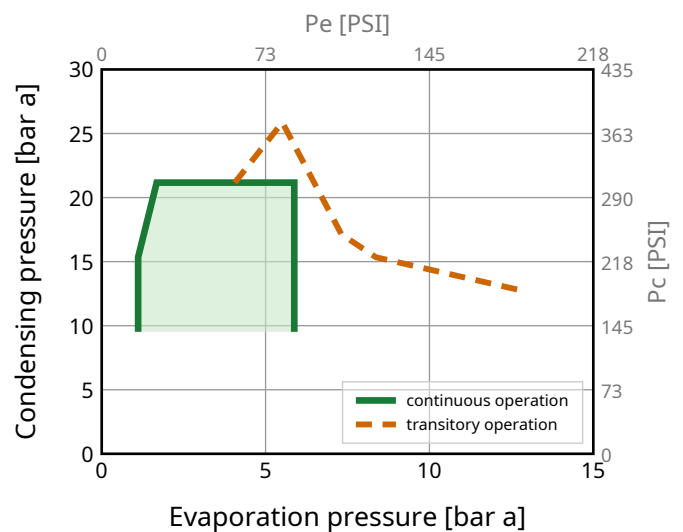
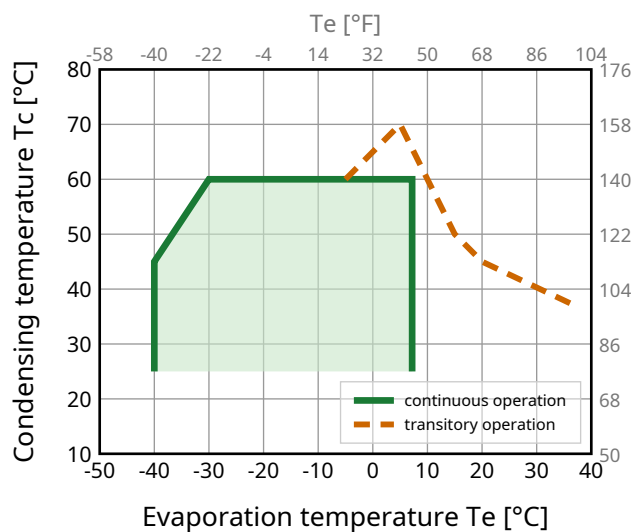
e1 retaining clamp 103N0535

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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Configuration 2

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Standard Conditions

R290, 115 V/60 Hz, RSCR, 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	280	956	241	1.62	5.53	173	2.80	2.85	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	208	711	179	1.26	4.29	166	2.77	2.61	CECOMAF LBP
-35 -31	40 104	20 68	40 104	157	536	135	1.22	4.15	129	2.62	1.80	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	509	1737	438	2.15	7.34	237	3.17	5.83	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	402	1373	346	1.78	6.09	226	3.10	5.12	CECOMAF MBP
-10 14	45 113	20 68	45 113	454	1548	390	2.15	7.33	211	3.01	5.58	EN12900 MBP

Performance Tables

R290, 115 V/60 Hz, RSCR, 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	114	388	98	0.99	3.39	114	2.58	1.28
-30	-22	194	662	167	1.32	4.52	147	2.68	2.19
-20	-4	312	1063	268	1.73	5.90	180	2.84	3.54
-10	14	472	1609	406	2.23	7.62	211	3.01	5.42
0	32	679	2317	584	2.89	9.85	235	3.16	7.90
7.2	45	861	2937	740	3.50	11.95	246	3.23	10.13

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

-40	-40	99	339	85	0.91	3.10	109	2.55	1.24
-30	-22	164	558	141	1.12	3.82	146	2.67	2.04
-20	-4	263	897	226	1.41	4.81	186	2.87	3.31
-10	14	402	1373	346	1.78	6.09	226	3.10	5.12
0	32	587	2004	505	2.26	7.72	260	3.33	7.58
7.2	45	752	2564	646	2.70	9.21	278	3.46	9.82