

Model
KLF4.0CNH

Sales code:
106H3408

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	8.62 kg / 19.00lbs
Displacement	4.00 cm3 / 0.24cu.in
Compressors on pallet	100



General – Configurations With KLF4.0CNH

-	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

- Compressor with low height version.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

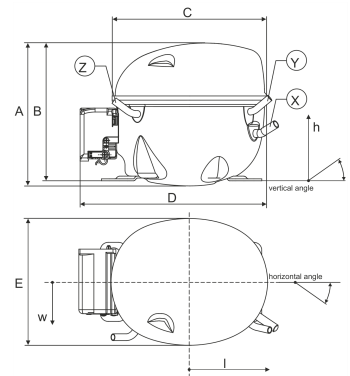
Oil type	POE	Winding resistance main	3.400 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	8.00 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,630 cm³ / 55.12fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

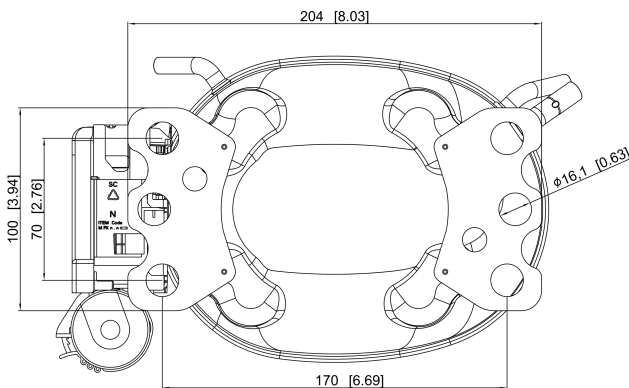
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	235.1mm / 9.26in
E Width	151mm / 5.94in

[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	114/107/63 / 4.49/4.21/2.48in	-87/101/71 / -3.43/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

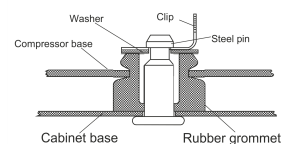
Mounting Accessories



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	-
Snap-on ø7,3 ø16mm	118-1947	118-1919

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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))	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



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Components

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

c start capacitor (240µF) 117U5002

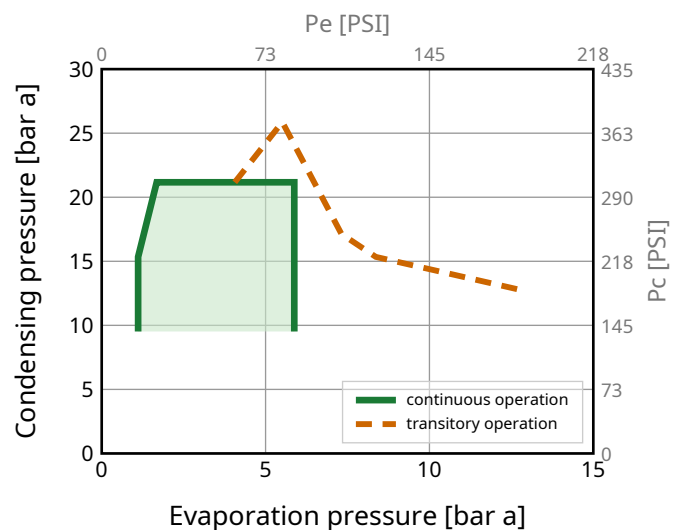
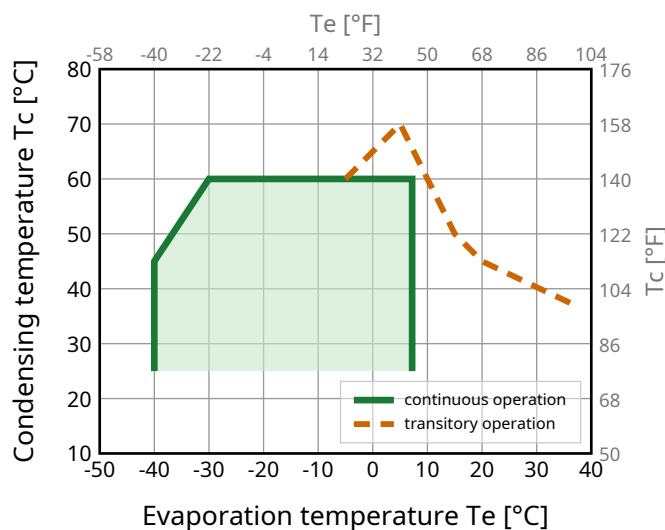
b, d cover + clamp + screws (5VA-compl.) 103N0600

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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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	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

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Configuration 2

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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))	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

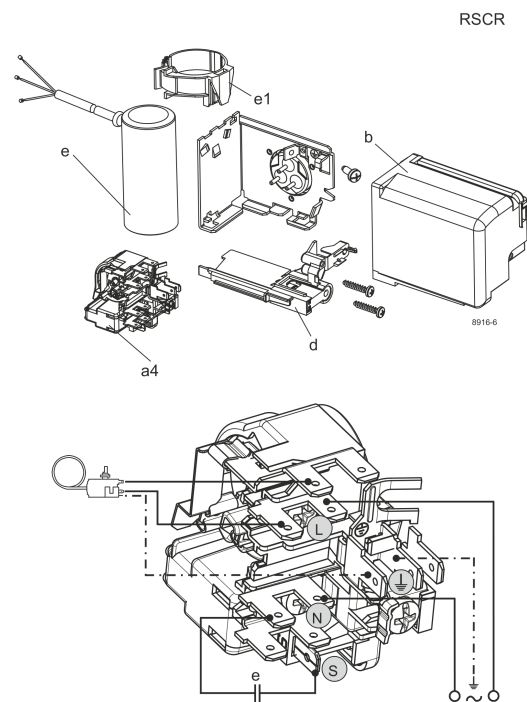
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a4 DLS4 (PTC,6.3mm, T1209/L6 - S4) 103N0210

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

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

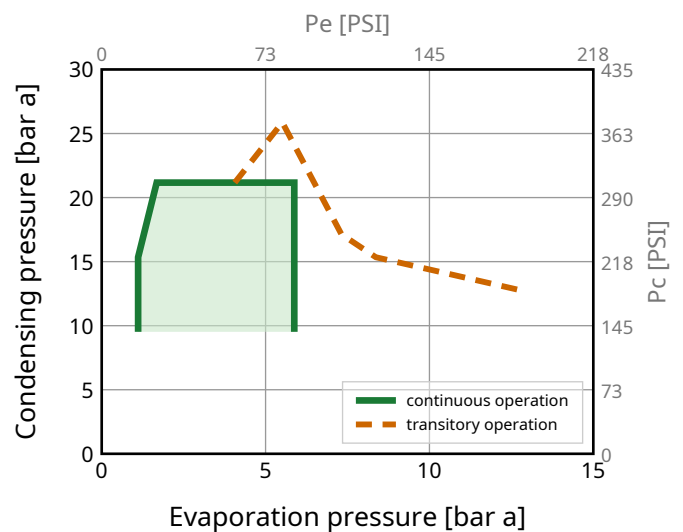
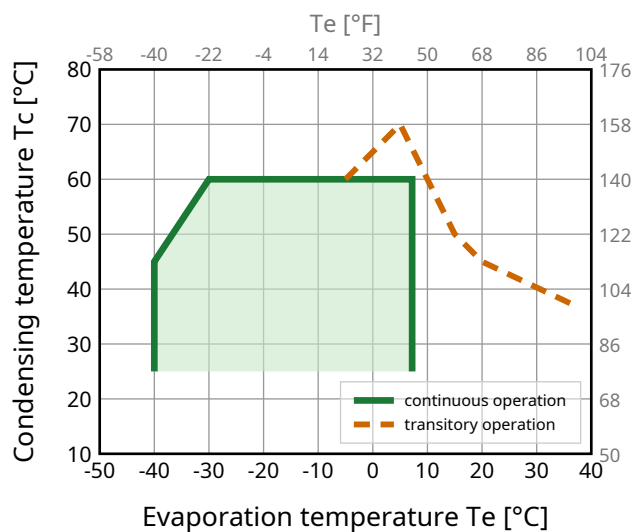
e1 retaining clamp 103N0535

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	232	791	199	1.57	5.37	147	1.36	2.35	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	171	584	147	1.20	4.09	143	1.32	2.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	128	437	110	1.10	3.76	116	1.10	1.47	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	424	1446	364	2.22	7.58	191	1.73	4.85	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	336	1146	289	1.83	6.23	184	1.67	4.27	CECOMAF MBP
-10 14	45 113	20 68	45 113	380	1298	327	2.26	7.72	168	1.53	4.68	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	83	282	71	0.75	2.56	110	1.05	0.93
-30	-22	160	548	138	1.27	4.33	126	1.18	1.81
-20	-4	262	893	225	1.78	6.06	147	1.36	2.98
-10	14	396	1349	340	2.35	8.03	168	1.53	4.54
0	32	572	1951	492	3.10	10.59	184	1.67	6.65
7.2	45	730	2492	628	3.84	13.11	190	1.72	8.59

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

-40	-40	53	182	46	0.51	1.73	106	1.01	0.66
-30	-22	128	437	110	0.99	3.39	129	1.21	1.60
-20	-4	219	748	189	1.40	4.77	157	1.44	2.76
-10	14	336	1146	289	1.83	6.23	184	1.67	4.27
0	32	488	1664	420	2.37	8.10	206	1.86	6.29
7.2	45	624	2131	537	2.90	9.90	215	1.94	8.16