

Model
KLF7.7CNH

Sales code:
106H3802

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.70 kg / 21.38lbs
Displacement	7.70 cm3 / 0.47cu.in
Compressors on pallet	100



General – Configurations With KLF7.7CNH

-	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	UL
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

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Compressor comes on a wooden pallet

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Compressor Design

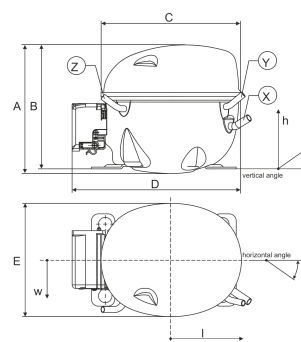
Oil type	POE	Winding resistance main	1.4 Ohm
Oil viscosity	19,2cSt	Winding resistance aux	5.9 Ohm
Oil quantity	170 / 5.75fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,575 cm ³ / 53.26fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

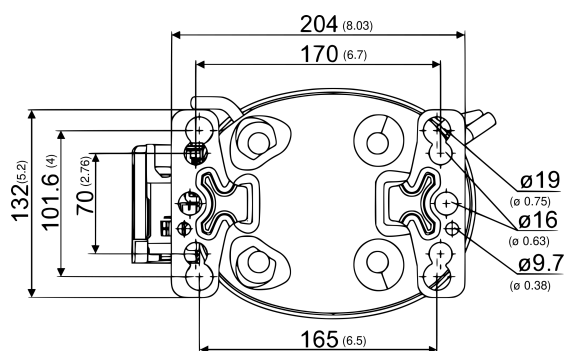
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

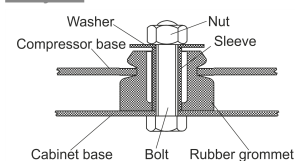


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

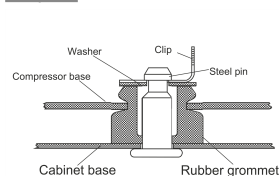
Mounting Accessories



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
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	35.6 A
RLA (rated load amps / 1s/ U(N))	4.9 A

Ambient/ machine room temperatures minimum /maximum

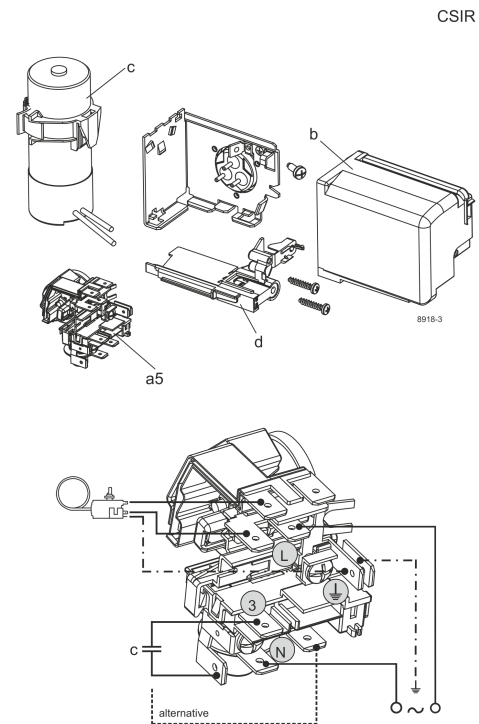
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (T1141/L6-S6) 117U7078

c start capacitor (240µF) 117U5002

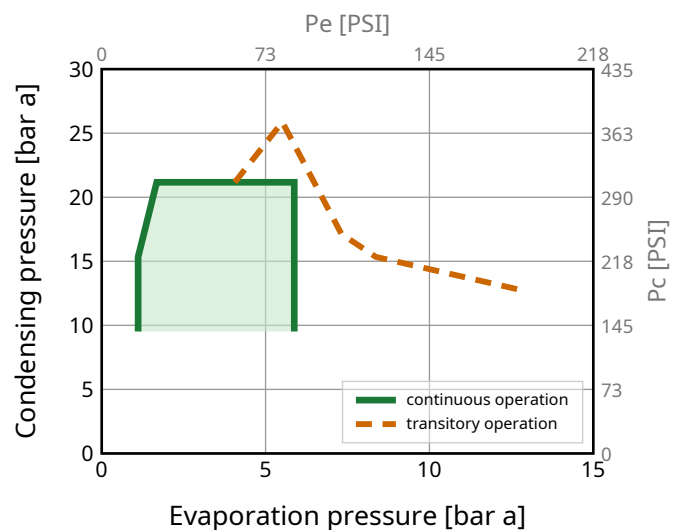
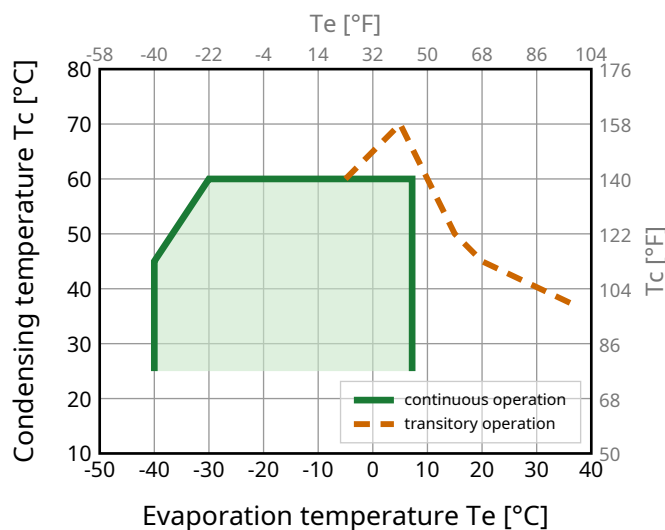
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	478	1630	411	1.63	5.55	294	3.44	4.85	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	357	1217	307	1.26	4.31	282	3.36	4.47	CECOMAF LBP
-35 -31	40 104	20 68	40 104	268	913	230	1.23	4.20	217	2.94	3.07	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	842	2873	724	2.06	7.02	409	4.31	9.64	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	668	2279	574	1.72	5.85	389	4.15	8.49	CECOMAF MBP
-10 14	45 113	20 68	45 113	751	2564	646	2.09	7.12	360	3.92	9.25	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	203	693	175	1.03	3.51	197	2.84	2.29
-30	-22	335	1142	288	1.34	4.59	249	3.13	3.78
-20	-4	524	1787	450	1.71	5.85	306	3.52	5.96
-10	14	781	2665	672	2.17	7.40	360	3.92	8.97
0	32	1118	3816	962	2.76	9.43	405	4.27	13.01
7.2	45	1417	4834	1219	3.32	11.32	427	4.45	16.67

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

-40	-40	176	600	151	0.95	3.24	185	2.76	2.19
-30	-22	284	968	244	1.15	3.91	247	3.13	3.54
-20	-4	444	1515	382	1.40	4.77	318	3.61	5.59
-10	14	668	2279	574	1.72	5.85	389	4.15	8.49
0	32	967	3298	831	2.13	7.26	454	4.67	12.46
7.2	45	1234	4211	1061	2.50	8.54	493	4.99	16.12

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Configuration 2

Sales code:
106H3802

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
Starting device type	PTC
Run capacitor	15 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	35.6 A
RLA (rated load amps / 1s/ U(N))	4.9 A

Ambient/ machine room temperatures minimum /maximum

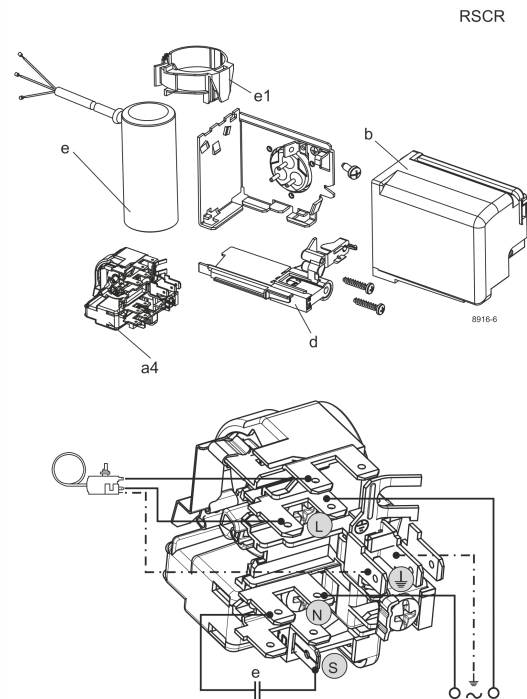
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a4 DLS 6 (PTC, 6.3mm, T1141/L6 - S6) 103N0214

e run capacitor (15 μ F, 6.3mm) 117-7153

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

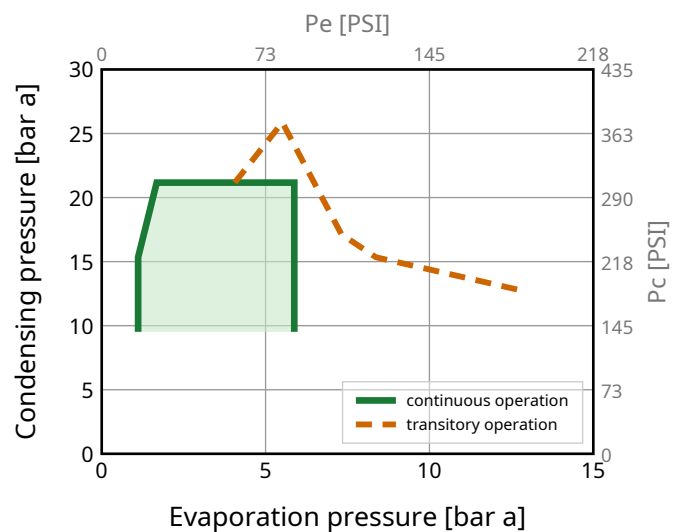
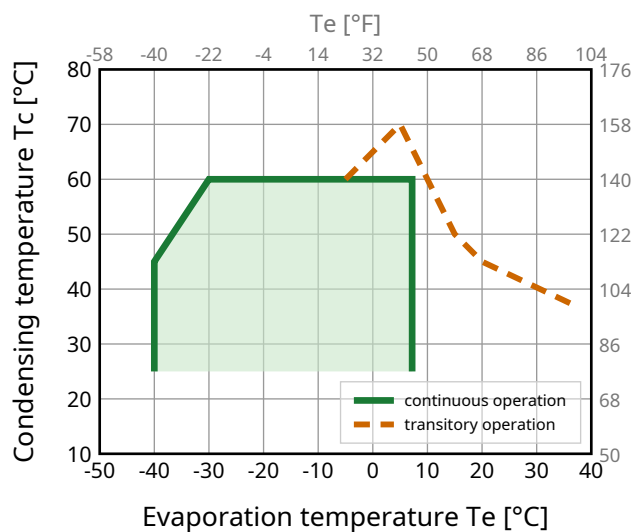
e1 retaining clamp 103N0535

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	481	1642	414	1.72	5.87	280	3.11	4.89	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	359	1226	309	1.33	4.53	270	3.04	4.51	CECOMAF LBP
-35 -31	40 104	20 68	40 104	275	937	236	1.29	4.39	213	2.67	3.15	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	848	2895	730	2.22	7.57	382	3.90	9.71	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	675	2304	581	1.85	6.31	365	3.77	8.59	CECOMAF MBP
-10 14	45 113	20 68	45 113	762	2602	656	2.18	7.44	350	3.65	9.38	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	200	682	172	1.07	3.66	186	2.50	2.25
-30	-22	336	1148	289	1.40	4.79	240	2.83	3.80
-20	-4	531	1812	457	1.79	6.11	297	3.24	6.04
-10	14	793	2705	682	2.27	7.74	350	3.65	9.10
0	32	1130	3857	972	2.89	9.86	391	3.98	13.14
7.2	45	1426	4864	1226	3.48	11.87	410	4.13	16.77

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

-40	-40	167	568	143	0.91	3.10	183	2.47	2.07
-30	-22	283	966	243	1.18	4.04	239	2.82	3.54
-20	-4	450	1534	387	1.49	5.07	302	3.28	5.66
-10	14	675	2304	581	1.85	6.31	365	3.77	8.59
0	32	969	3307	833	2.31	7.87	420	4.22	12.50
7.2	45	1228	4189	1056	2.73	9.30	450	4.47	16.04