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

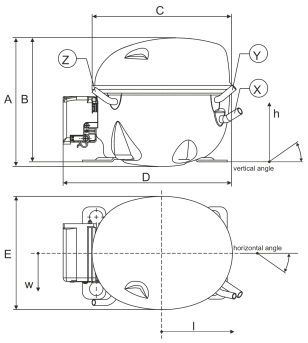
Oil type	**POE**	Winding resistance main	**1.420 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**5.90 Ohm**
Oil quantity	**170 / 5.75fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,575 cm3 / 53.26fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

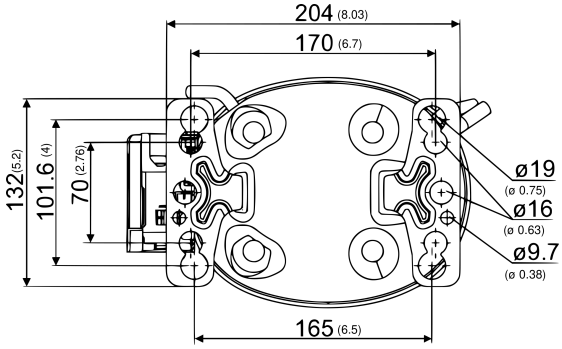
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



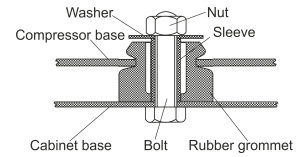
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

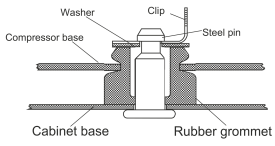


Dimensions in mm [in]

Bolt joint



Snap-on



	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
KLF7.7CNH Configuration 1

Sales code:
106H3802

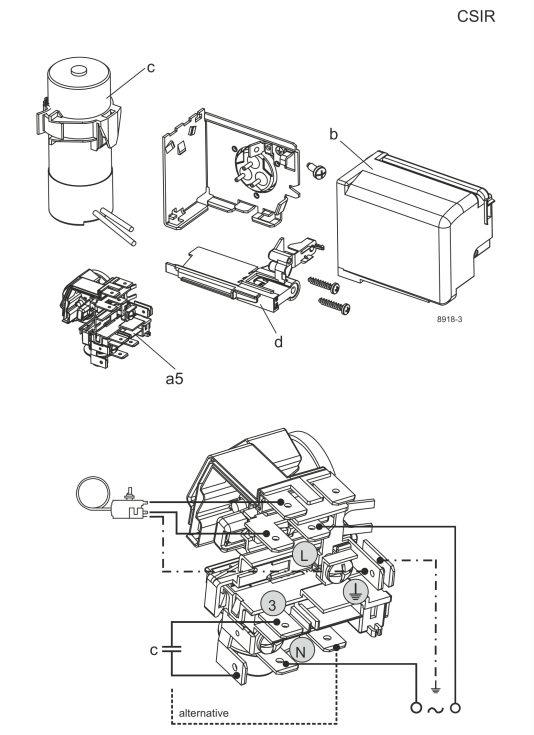
Configuration

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

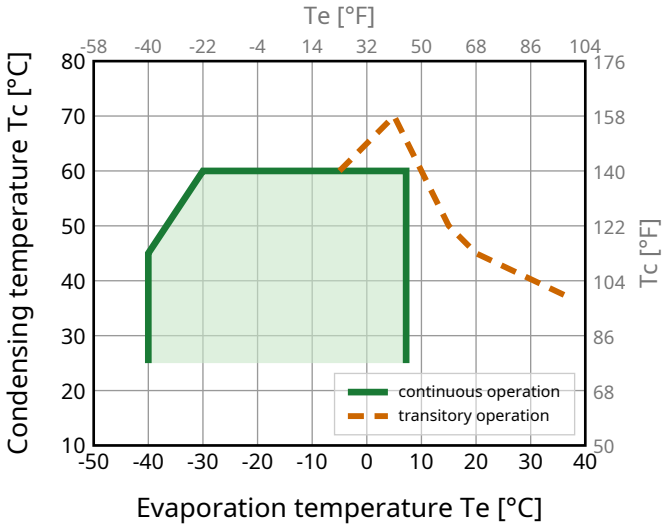


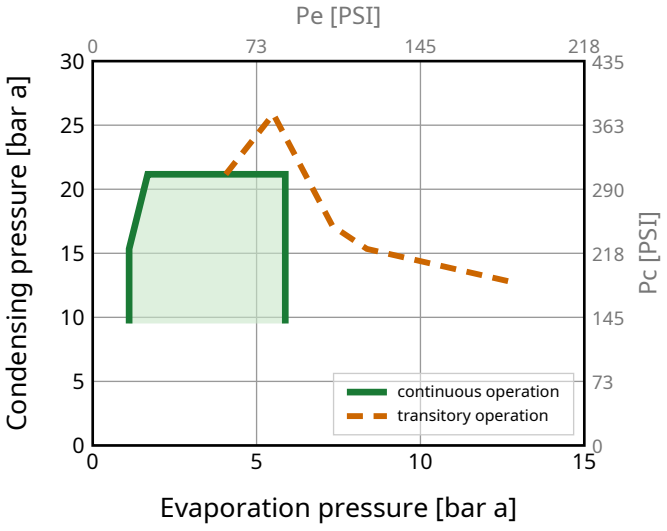
View full size

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





Model
KLF7.7CNH Configuration 1

Sales code:
106H3802

Standard Conditions

R290, 115 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	ṁ
[°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

Model
KLF7.7CNH Configuration 2

Sales code:
106H3802

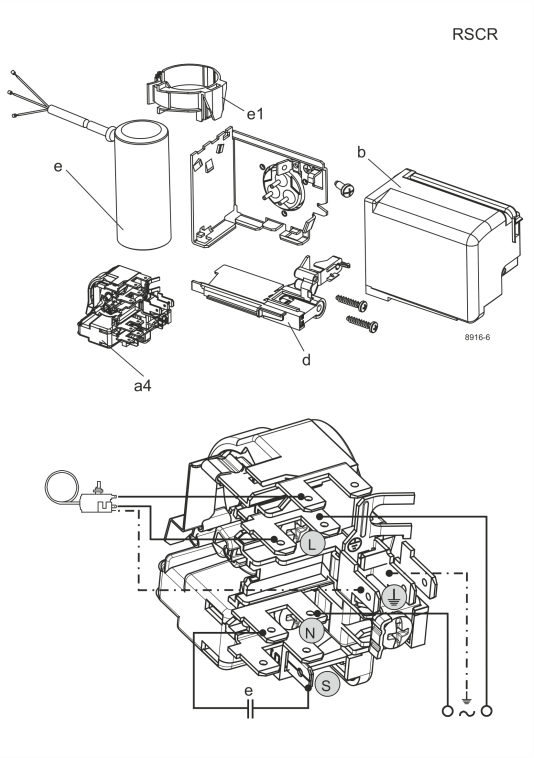
Configuration

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

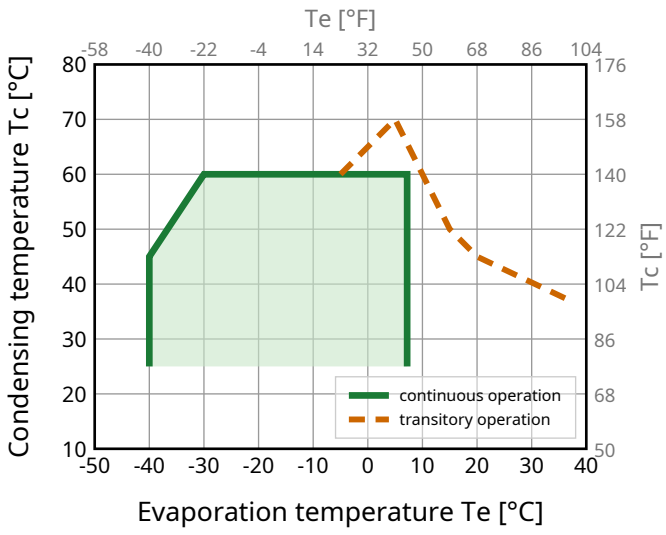
Electrical Accessories / Wiring Diagram

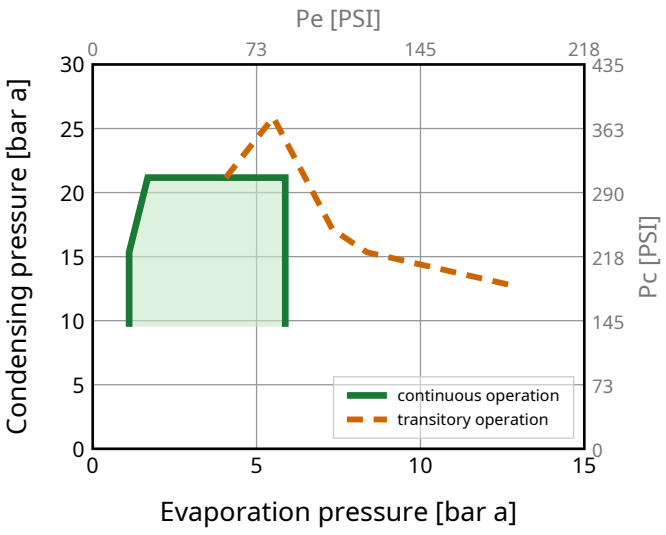


Components
a4 DLS 6 (PTC,6.3mm, T1141/L6 - S6) 103N0214
e run capacitor (15µF, 6,3mm) 117-7153
b, d cover + clamp + screws (5VA-compl.) 103N0600
e1 retaining clamp 103N0535

Alternative components
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model
KLF7.7CNH Configuration 2

Sales code:
106H3802

Standard Conditions

R290, 115 V/60 Hz, RSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	ṁ
[°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