Single
Packs

Single Pack KLF7.7CNH 115-127V 60Hz CSIR

Single pack code number: **195B4728**

Position	Title	Code	Amount
1	Compressor KLF7.7CNH	106H3802	1
2	Starting relay (QLZ-17.3A, overload protector T1141/L6)	117U7078	1
3	Starting capacitor (240µF 125V, 6.3mm)	117U5002	1
4	KL accessories	103N1060	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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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

Model
KLF7.7CNH

Sales code:
106H3802

Compressor Design

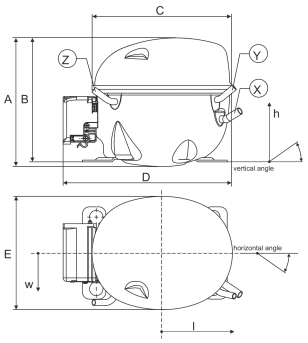
Oil type	**POE**	Winding resistance main	**1.4 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**5.9 Ohm**
Oil quantity	**170 / 5.75fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,575 cm3 / 53.26fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

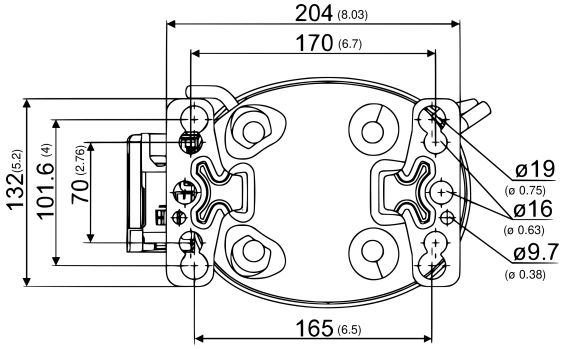
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



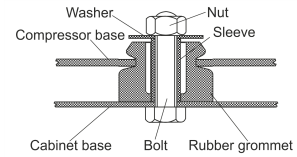
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

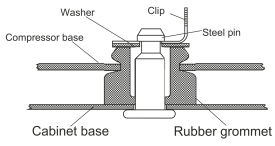


Dimensions in mm [in]

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

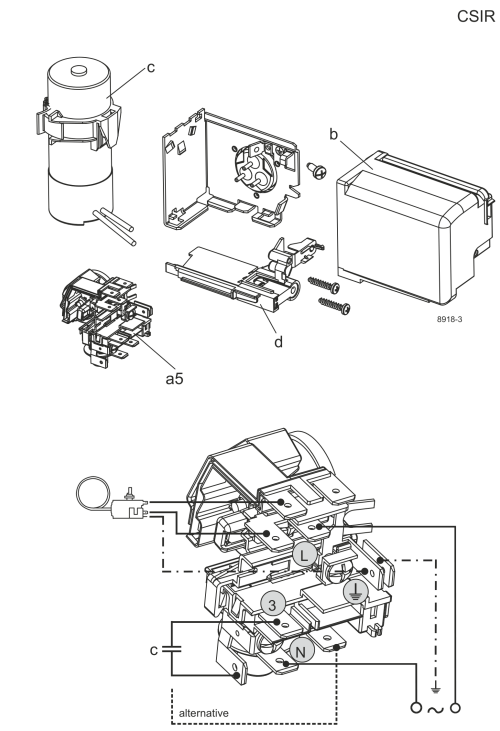
Configuration

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



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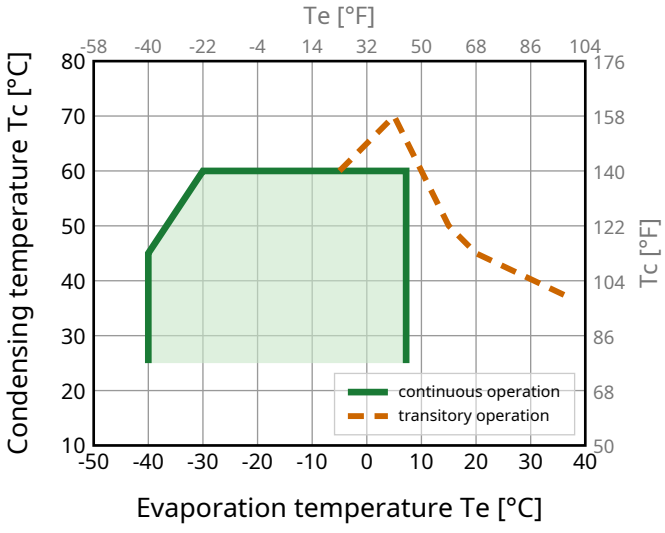
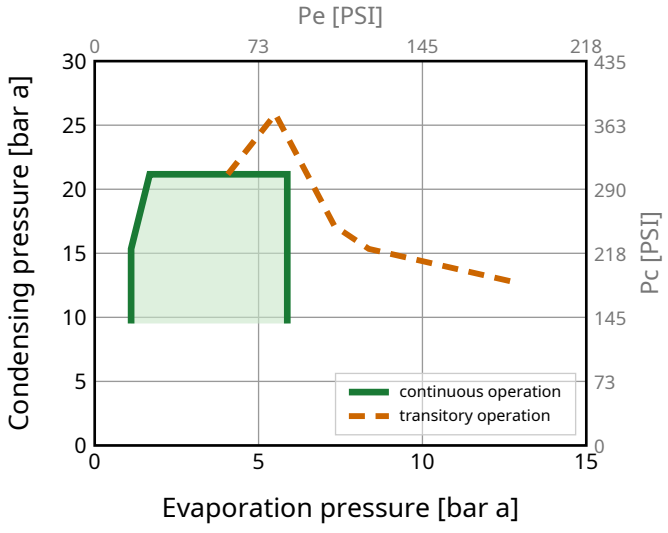
Components
a5 current relay (T1141/L6-S6) 117U7078
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

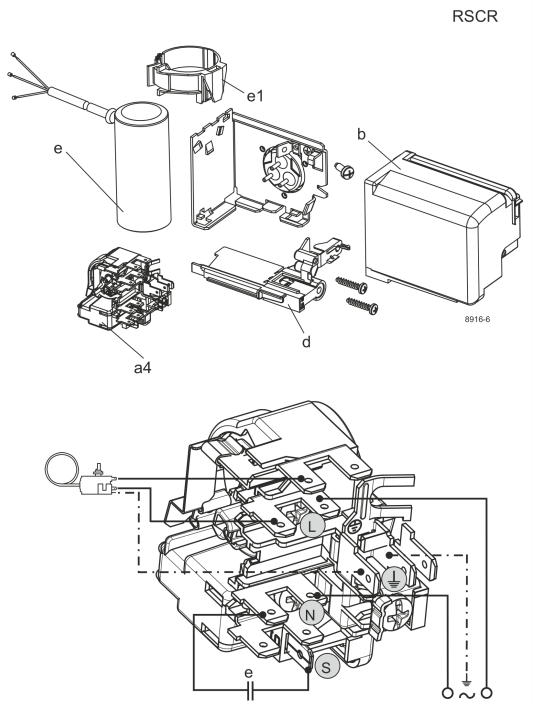
Configuration

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

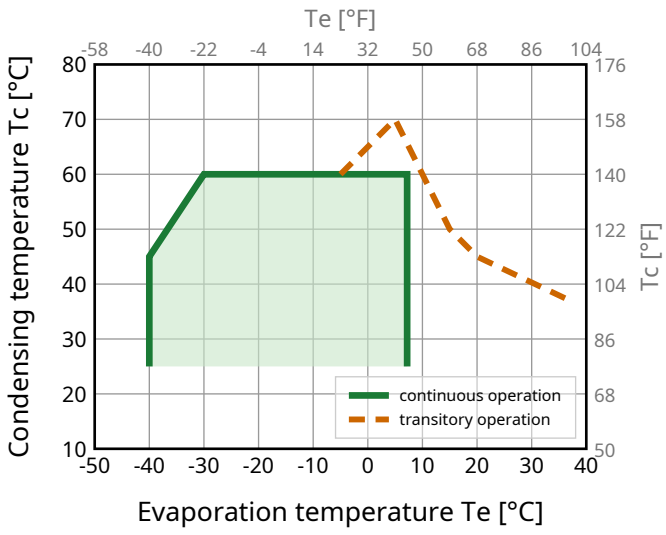
Electrical Accessories / Wiring Diagram

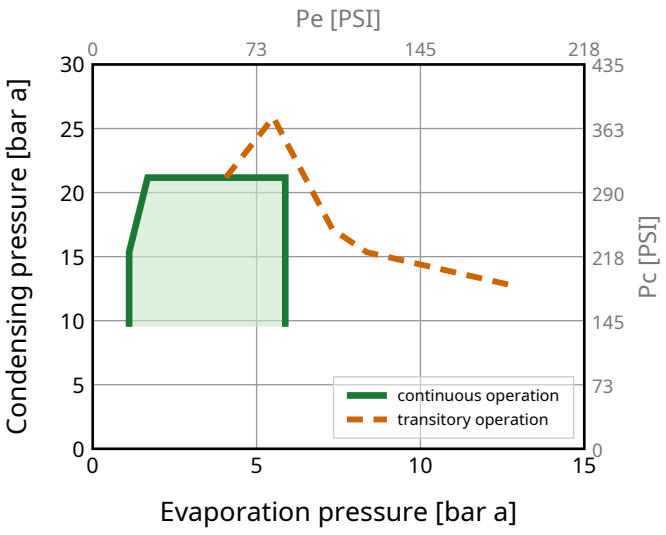


Components
a4 DLS 6 (PTC,6.3mm, T1141/L6 - S6) 103N0214
e run capacitor (15µF, 6,3mm) 117-7153
b, d cover + clamp + screws (5VA-compl.) 103N0600
e1 retaining clamp 103N0535

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

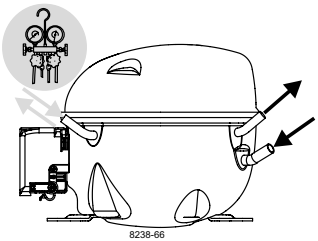
R290, 115 V/60 Hz, RSCR, fan 3m/s

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



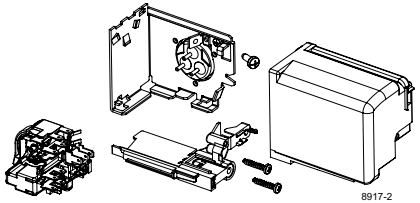
KL Compressors

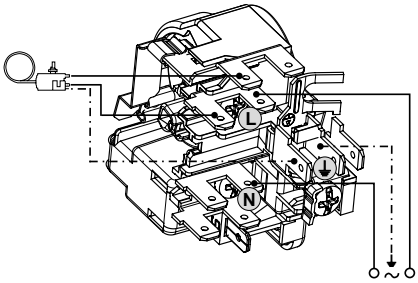
SECOP

Keep electrical equipment clear from oil, chemicals, and water

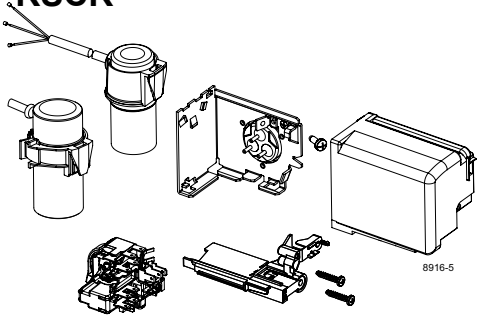
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

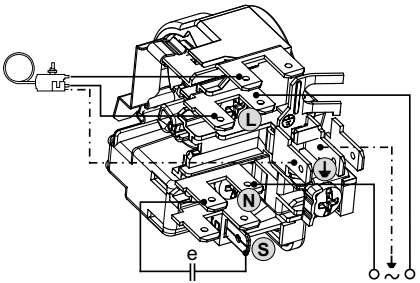
RSIR



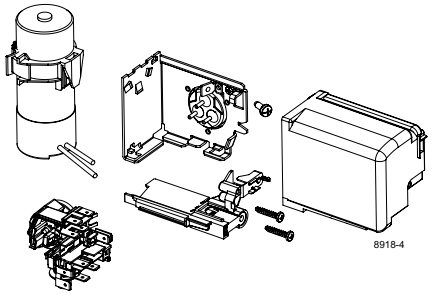


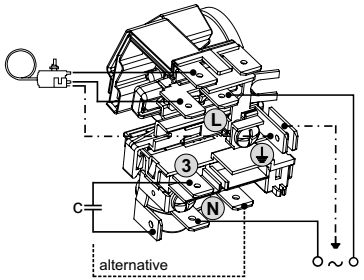
RSCR

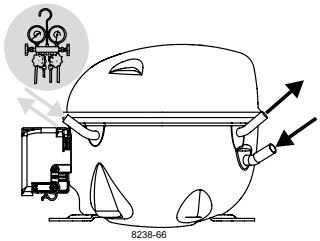




CSIR







KL Compressors

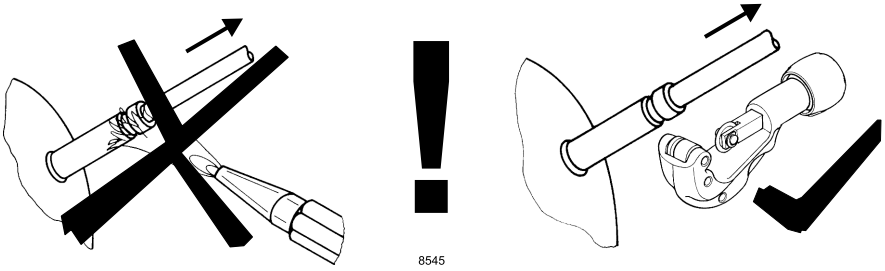
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**