Single
Packs

Single Pack KLF4.8CNH 115-127V 60Hz CSIR

Single pack code number: **195B4709**

Position	Title	Code	Amount
1	Compressor KLF4.8CNH	106H3500	1
2	Starting relay (QLZ-13.6A, overload protector T1217/L6)	117U7072	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
KLF4.8CNH

Sales code:
106H3500

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

- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
KLF4.8CNH

Sales code:
106H3500

Compressor Design

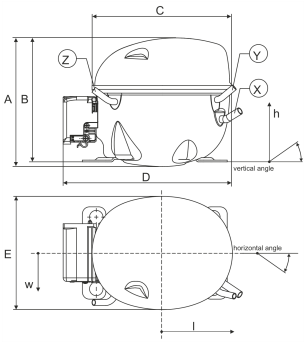
Oil type	**POE**	Winding resistance main	**2 Ohm**
Oil viscosity	**9,7cSt**	Winding resistance aux	**8.5 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,615 cm3 / 54.61fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

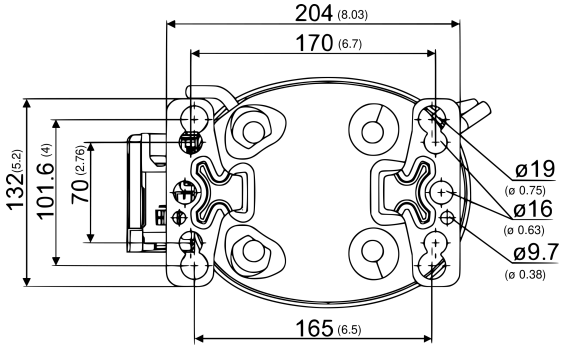
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



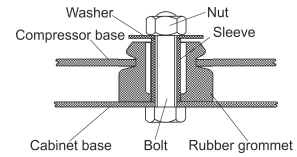
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

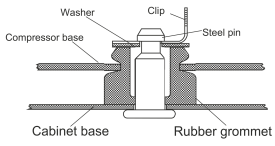


Dimensions in mm [in]

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
KLF4.8CNH Configuration 1

Sales code:
106H3500

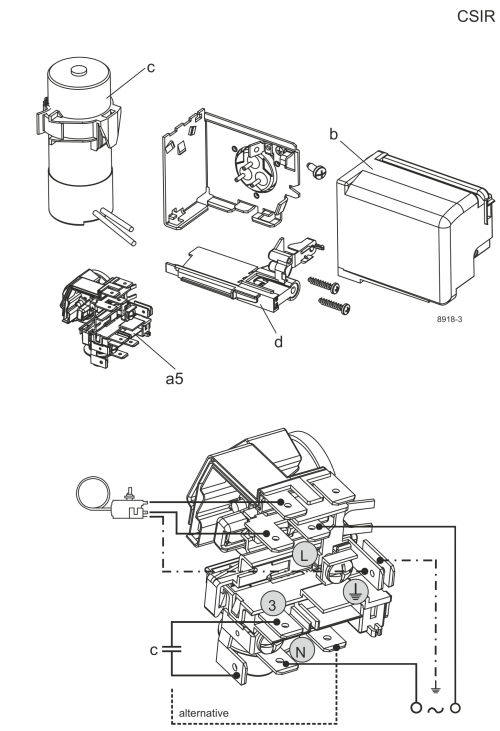
Configuration

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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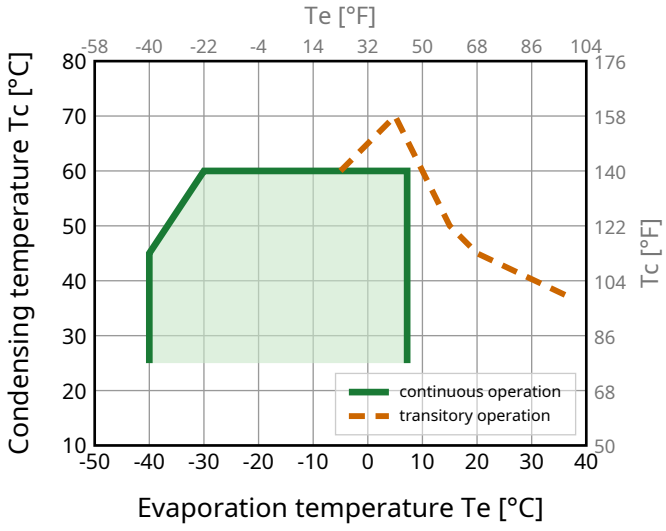
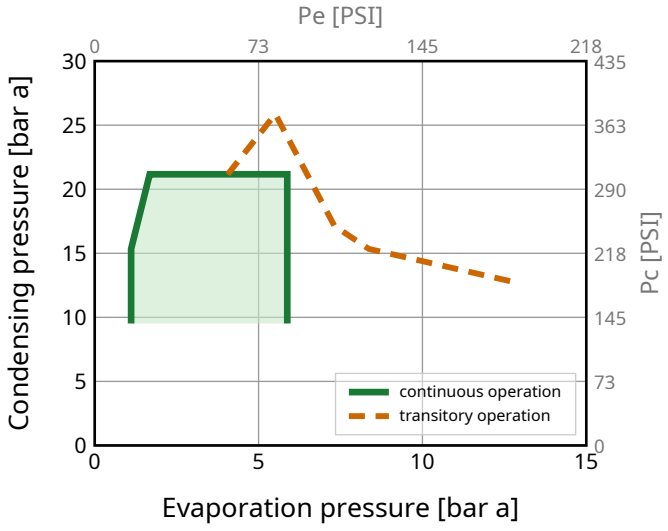
Components
a5 current relay (T1217/L6-S5) 117U7072
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF4.8CNH Configuration 1

Sales code:
106H3500

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	**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	ṁ
[°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
KLF4.8CNH Configuration 2

Sales code:
106H3500

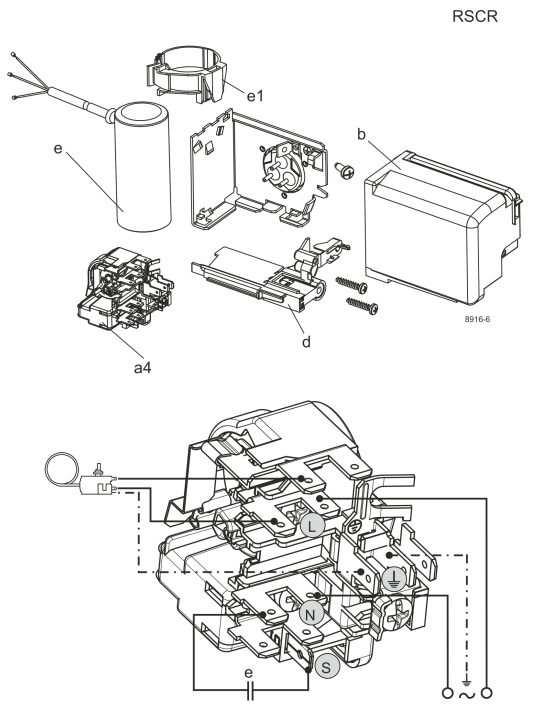
Configuration

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

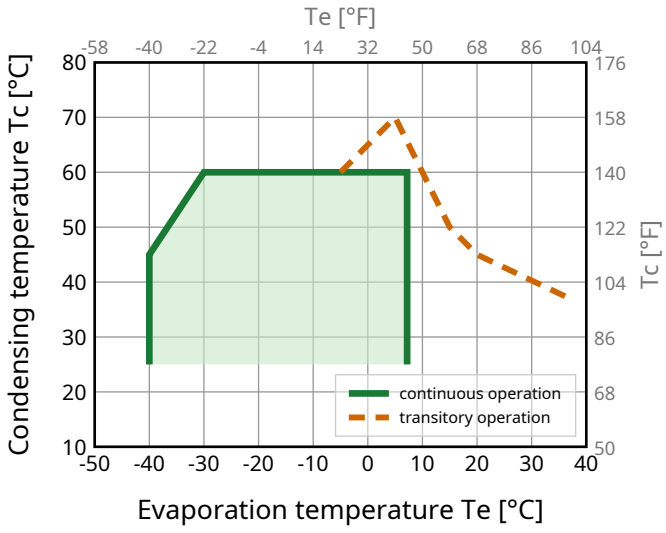
Electrical Accessories / Wiring Diagram

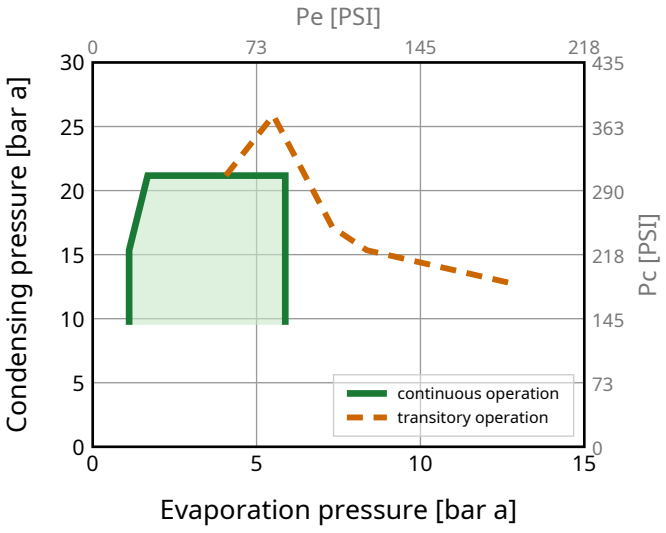


Components
a4 DLS5 (PTC,6.3mm, T1217/L6 - S5) 103N0212
e run capacitor (15µF, 6,3mm) 117-7153
b, d cover + clamp + screws (5VA-compl.) 103N0600
e1 retaining clamp 103N0535

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

Operation Pressure Range





Model
KLF4.8CNH Configuration 2

Sales code:
106H3500

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	**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

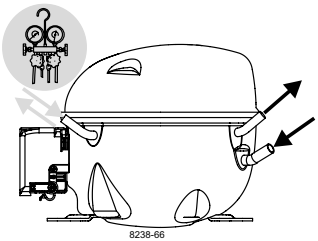
R290, 115 V/60 Hz, RSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°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



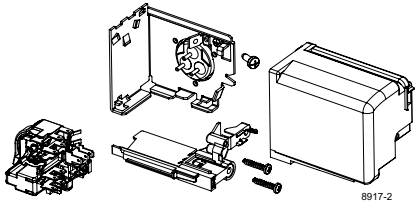
KL Compressors

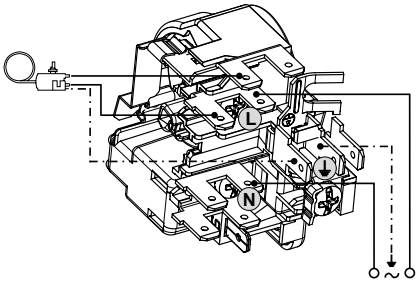
SECOP

Keep electrical equipment clear from oil, chemicals, and water

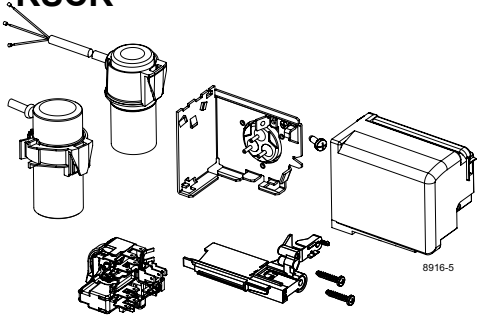
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

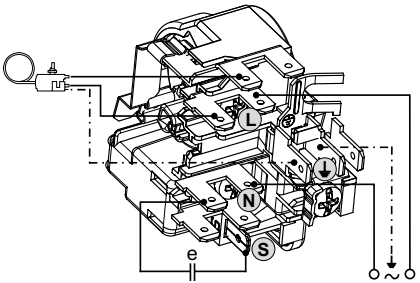
RSIR



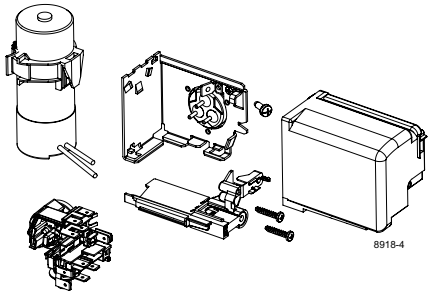


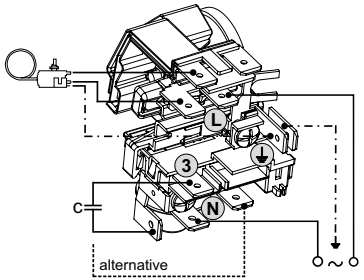
RSCR

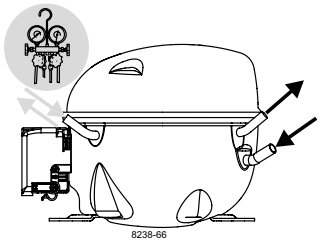




CSIR







KL Compressors

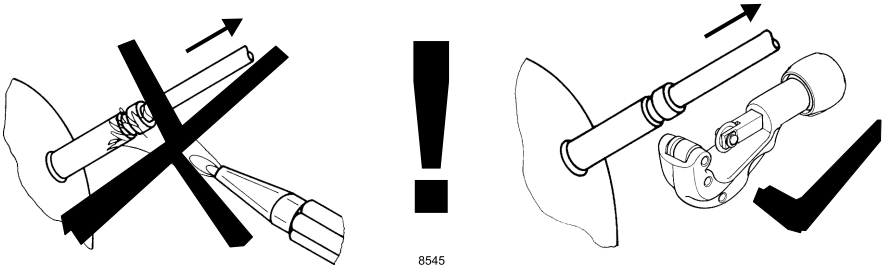
SECOP

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**