Single
Packs

Single Pack KLF5.6CNHS 115-127V 60Hz CSIR

Single pack code number: **195B4752**

Position	Title	Code	Amount
1	Compressor KLF5.6CNHS	106H3603	1
2	Starting relay (QLZ-11.6A, overload protector T1217/L6)	117U7075	1
3	Starting capacitor (240µF 125V, 6.3mm)	117U5002	1
4	KL accessories	103N1060	1
5	Snap-on in quantities | ø7,3 | ø16mm	118-1919	1

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Model
KLF5.6CNHS

Sales code:
106H3603

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**200g / 7.05oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**5.60 cm3 / 0.34cu.in**
Compressors on pallet	**100**

General – Configurations With KLF5.6CNHS

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz
Number of phases	1
Voltage range	95-140 V
Approvals	UL, CCC
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Very good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

Model
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106H3603

Compressor Design

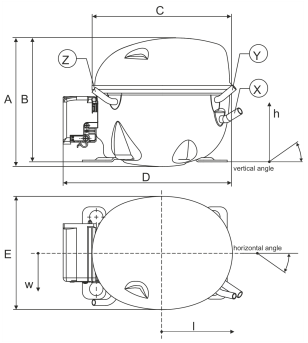
Oil type	**POE**	Winding resistance main	**2 Ohm**
Oil viscosity	**9,7cSt**	Winding resistance aux	**5.3 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,605 cm3 / 54.27fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

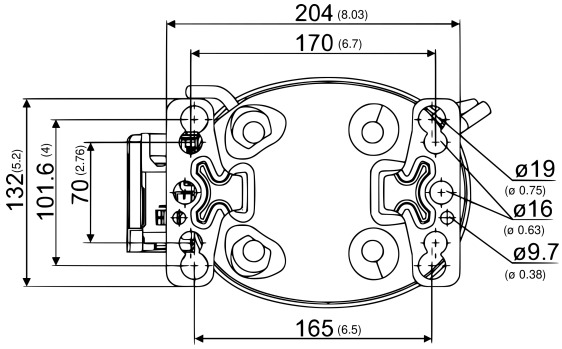
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



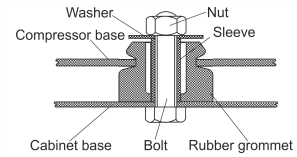
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

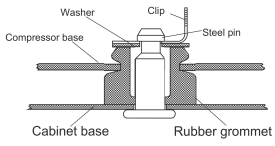


Dimensions in mm [in]

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
KLF5.6CNHS Configuration 1

Sales code:
106H3603

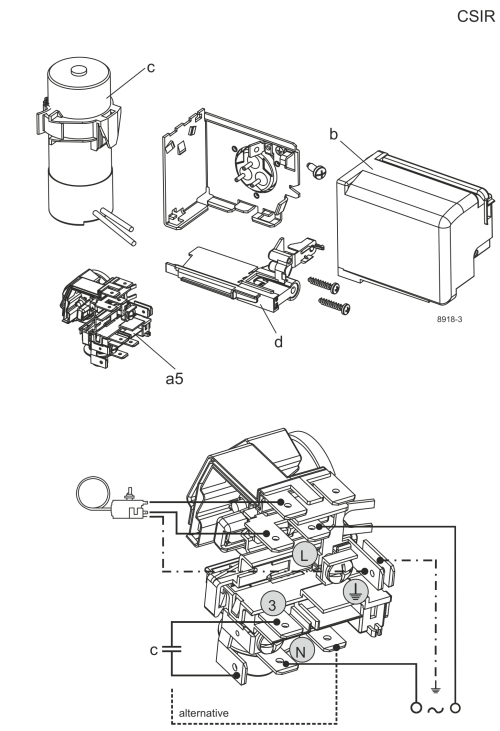
Configuration

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))	**31.1 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**31.5 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

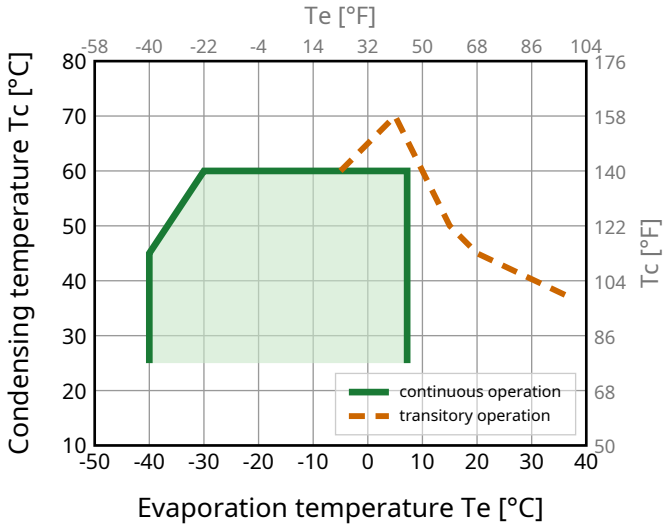


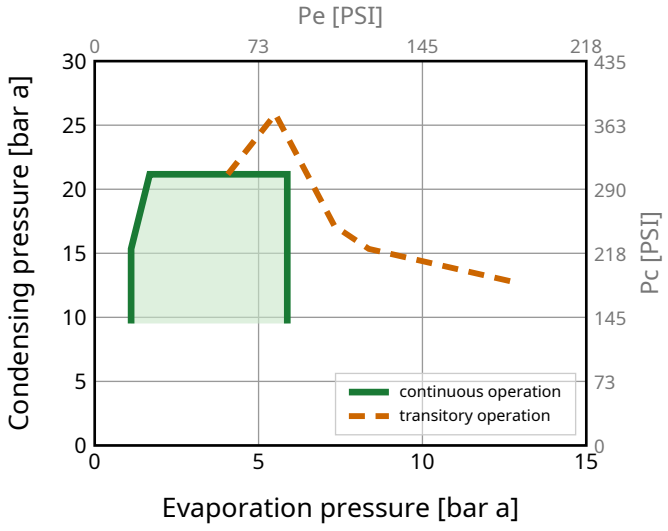
View full size

Components
a5 current relay (T1217/L6-S5) 117U7075
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

KLF5.6CNHS Configuration 1

Sales code:

106H3603

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	**329**	1121	283	**1.57**	5.37	209	2.75	3.34	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**245**	836	211	**1.22**	4.17	200	2.70	3.07	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**183**	624	157	**1.22**	4.15	151	2.44	2.10	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**588**	2005	505	**2.06**	7.01	286	3.25	6.73	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**466**	1592	401	**1.71**	5.83	273	3.16	5.93	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**520**	1773	447	**2.09**	7.12	249	3.00	6.39	**EN12900 MBP**

Performance Tables

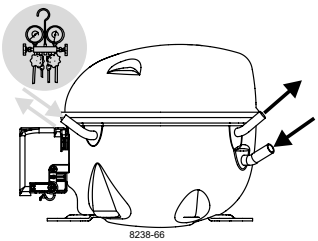
R290, 115 V/60 Hz, CSIR, fan 3m/s

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	**136**	463	117	**1.01**	3.44	134	2.39	1.52
-30	-22	**226**	771	194	**1.31**	4.46	173	2.55	2.56
-20	-4	**360**	1227	309	**1.69**	5.76	213	2.77	4.09
-10	14	**540**	1843	465	**2.17**	7.40	249	3.00	6.20
0	32	**771**	2631	663	**2.80**	9.54	276	3.18	8.97
7.2	45	**971**	3312	835	**3.39**	11.57	286	3.26	11.42

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

-40	-40	**119**	405	102	**0.94**	3.22	126	2.35	1.48
-30	-22	**193**	659	166	**1.10**	3.77	175	2.56	2.41
-20	-4	**308**	1050	265	**1.36**	4.65	226	2.85	3.87
-10	14	**466**	1592	401	**1.71**	5.83	273	3.16	5.93
0	32	**673**	2297	579	**2.16**	7.36	312	3.44	8.68
7.2	45	**854**	2913	734	**2.57**	8.78	332	3.60	11.15



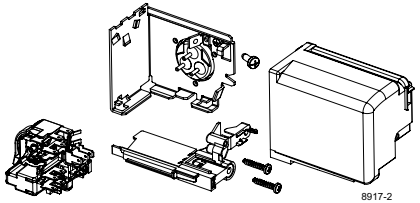
KL Compressors

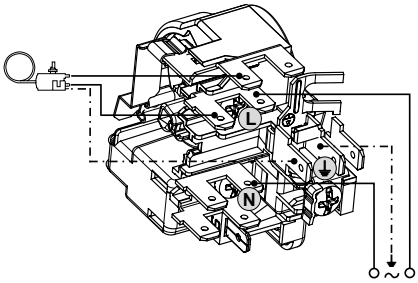
SECOP

Keep electrical equipment clear from oil, chemicals, and water

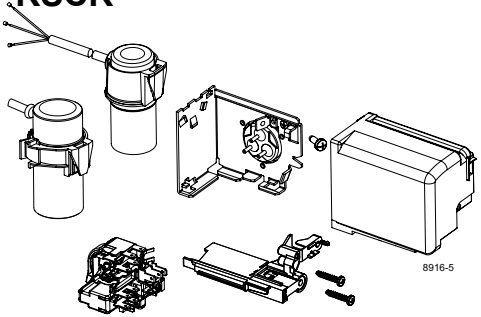
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

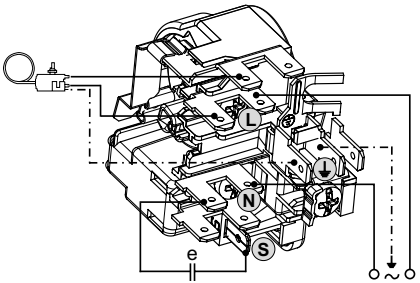
RSIR



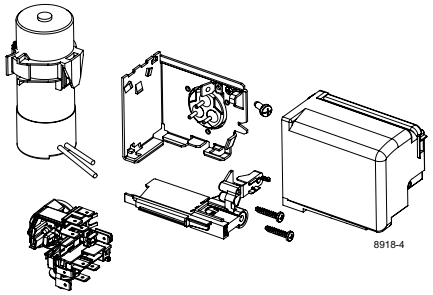


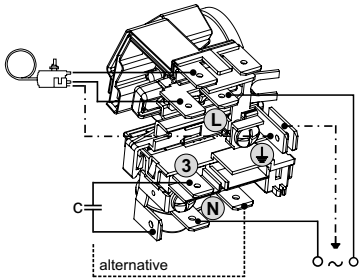
RSCR

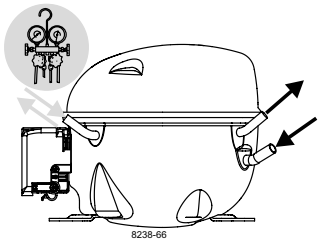




CSIR







KL Compressors

SECOP

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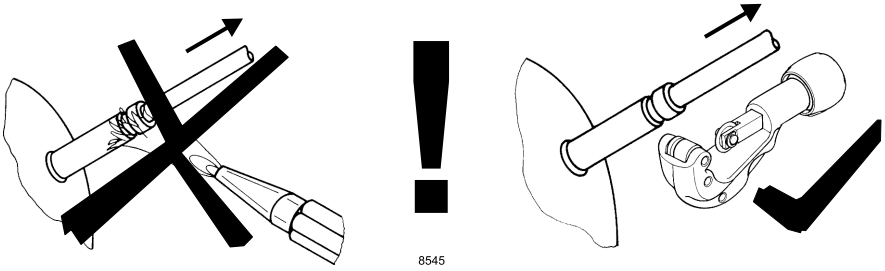
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**