Single
Packs

Single Pack KLF5.6CNT 200-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4690**

Position	Title	Code	Amount
1	Compressor KLF5.6CNT	106H2602	1
2	Starting relay (QLZ-4.4A, overload protector T1218/L6)	117U7077	1
3	Starting capacitor (80µF 260V, 6.3mm)	117U5003	1
4	KL accessories	103N1060	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
KLF5.6CNT

Sales code:
106H2602

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**200g / 7.05oz**
Weight	**9.40 kg / 20.72lbs**
Displacement	**5.60 cm3 / 0.34cu.in**
Compressors on pallet	**100**

General – Configurations With KLF5.6CNT

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	RSCR	CSIR	RSCR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz	208-230 V/60 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	187-254 V	187-254 V	198-253 V	198-253 V
Approvals	UL, CCC, CB	UL, CCC, CB	UL, CCC, CB, KC	UL, CCC, CB, KC
Starting torque	HST	LST	HST	LST
Refrigerant	R290	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	–	–

Application Notes

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

Model
KLF5.6CNT

Sales code:
106H2602

Compressor Design

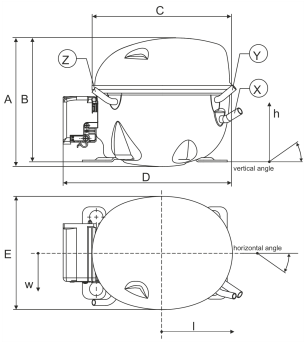
Oil type	**POE**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**12.2 Ohm**
Oil quantity	**170 / 5.75fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,605 cm3 / 54.27fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

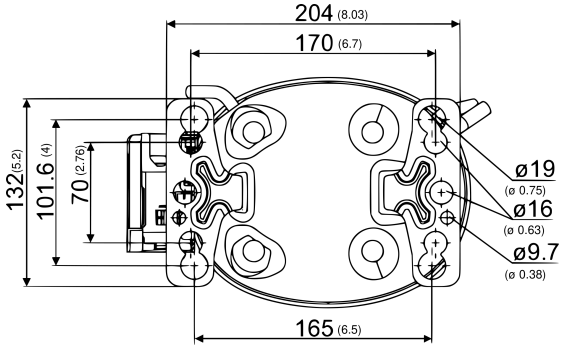
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



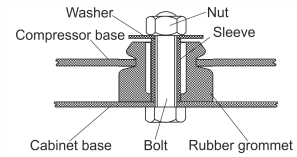
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

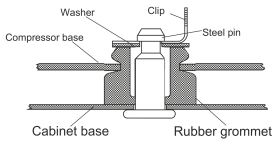


Dimensions in mm [in]

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
KLF5.6CNT Configuration 1

Sales code:
106H2602

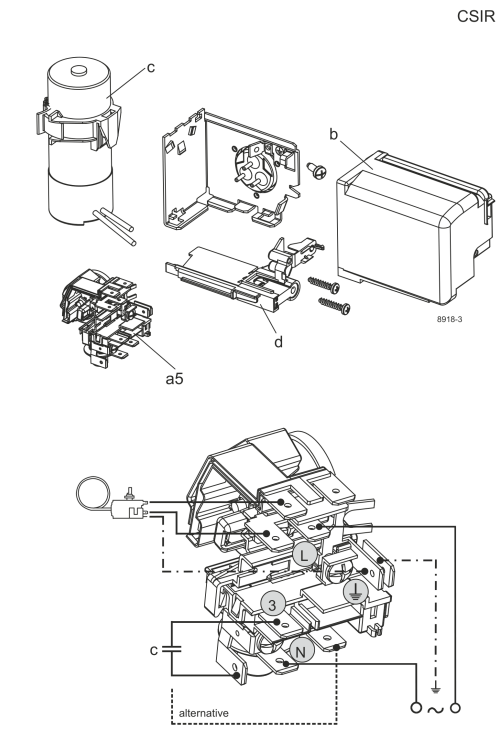
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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



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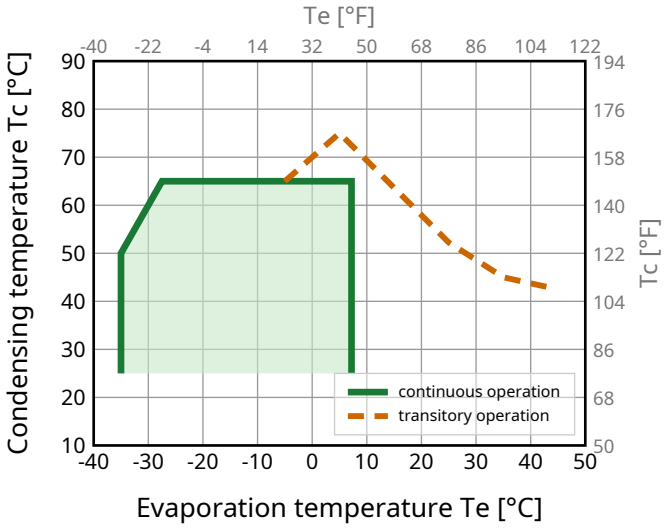
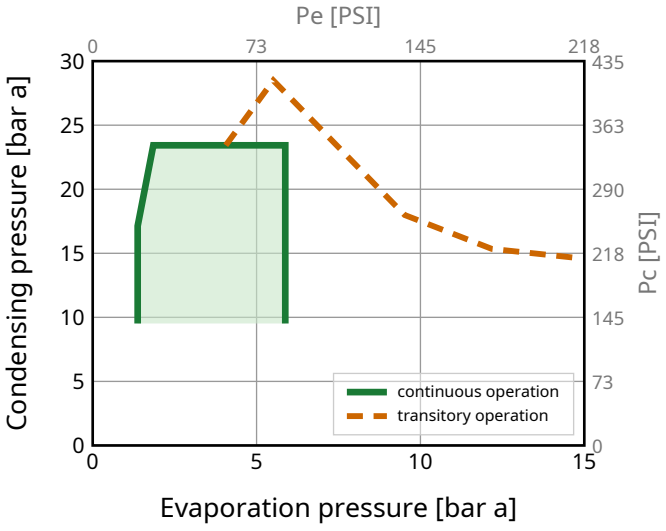
Components
a5 current relay (1218/L6 - S7) 117U7077
c start capacitor (80µF, 6.3mm) 117U5003
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF5.6CNT Configuration 1

Sales code:

106H2602

Standard Conditions

R290, 220 V/50 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	**272**	930	234	**1.55**	5.28	176	1.22	2.77	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**202**	688	173	**1.19**	4.06	170	1.20	2.53	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**148**	504	127	**1.21**	4.11	122	1.07	1.69	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**490**	1671	421	**2.06**	7.03	238	1.43	5.61	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**388**	1325	334	**1.71**	5.83	227	1.39	4.94	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**431**	1472	371	**2.08**	7.10	207	1.32	5.31	**EN12900 MBP**

Performance Tables

R290, 220 V/50 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]
-35	-31	**147**	501	126	**1.13**	3.86	130	1.09	1.66
-30	-22	**189**	644	162	**1.30**	4.44	145	1.13	2.13
-20	-4	**298**	1015	256	**1.68**	5.74	177	1.22	3.39
-10	14	**448**	1530	386	**2.17**	7.39	207	1.32	5.15
0	32	**652**	2224	560	**2.81**	9.60	232	1.40	7.58
7.2	45	**836**	2854	719	**3.44**	11.73	243	1.45	9.84

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

-35	-31	**113**	385	97	**0.85**	2.92	132	1.09	1.41
-30	-22	**155**	527	133	**1.03**	3.51	150	1.14	1.93
-20	-4	**256**	872	220	**1.35**	4.61	189	1.26	3.22
-10	14	**388**	1325	334	**1.71**	5.83	227	1.39	4.94
0	32	**564**	1923	485	**2.16**	7.37	261	1.51	7.27
7.2	45	**722**	2464	621	**2.58**	8.79	280	1.59	9.43

Model
KLF5.6CNT Configuration 2

Sales code:
106H2602

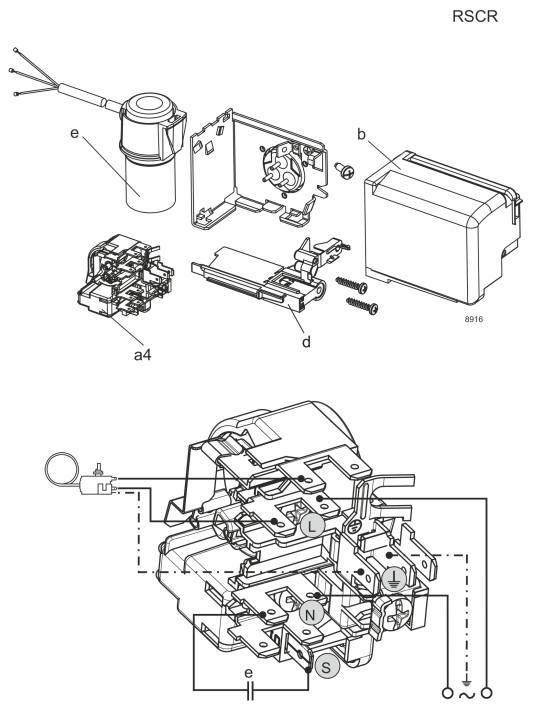
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**UL, CCC, CB**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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



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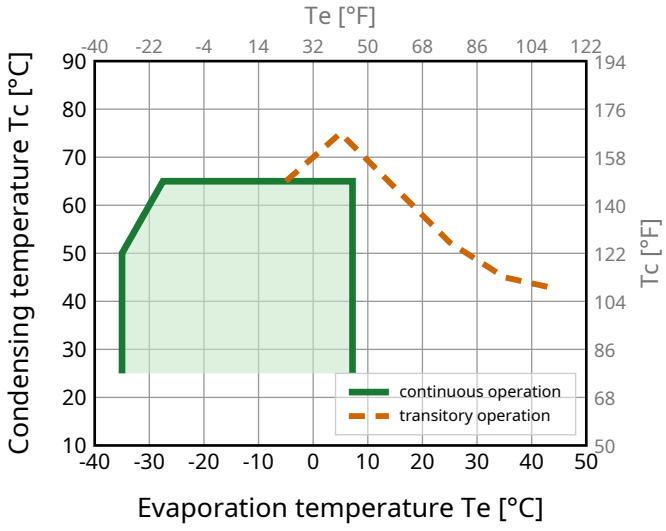
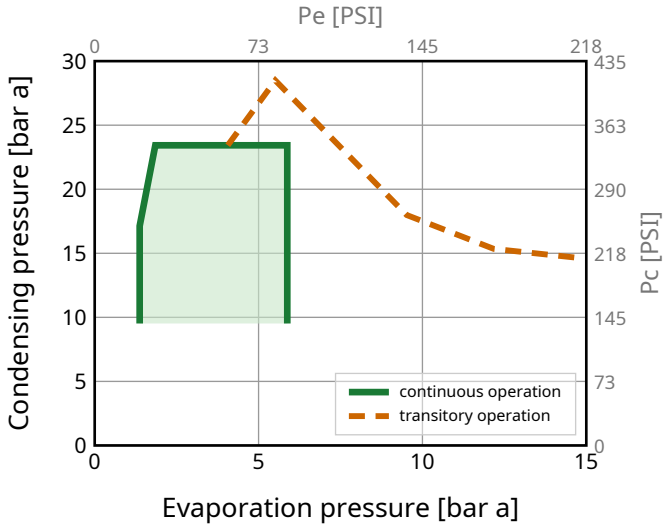
Components
a4 DAS7 (PTC, 6.3mm, T1218/L6 - S7) 103N0256
e run capacitor (5µF, 6,3mm) 117-7155
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF5.6CNT Configuration 2

Sales code:

106H2602

Standard Conditions

R290, 220 V/50 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	**278**	947	239	**1.62**	5.51	172	0.93	2.82	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**206**	701	177	**1.24**	4.23	166	0.91	2.58	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**150**	513	129	**1.24**	4.22	121	0.75	1.72	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**500**	1704	430	**2.16**	7.37	231	1.18	5.72	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**396**	1351	341	**1.79**	6.11	221	1.14	5.04	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**440**	1500	378	**2.18**	7.43	202	1.05	5.41	**EN12900 MBP**

Performance Tables

R290, 220 V/50 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]
-35	-31	**150**	510	129	**1.17**	3.98	128	0.77	1.69
-30	-22	**192**	656	165	**1.35**	4.60	142	0.82	2.17
-20	-4	**303**	1035	261	**1.75**	5.98	173	0.93	3.45
-10	14	**457**	1560	393	**2.26**	7.72	202	1.05	5.25
0	32	**665**	2268	572	**2.95**	10.06	225	1.16	7.73
7.2	45	**853**	2911	734	**3.61**	12.31	236	1.20	10.04

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

-35	-31	**115**	392	99	**0.88**	3.01	130	0.78	1.43
-30	-22	**158**	537	135	**1.07**	3.64	147	0.84	1.97
-20	-4	**260**	888	224	**1.41**	4.81	184	0.98	3.28
-10	14	**396**	1351	341	**1.79**	6.11	221	1.14	5.04
0	32	**575**	1963	495	**2.27**	7.74	254	1.27	7.42
7.2	45	**737**	2515	634	**2.71**	9.26	272	1.35	9.63

Model
KLF5.6CNT Configuration 3

Sales code:
106H2602

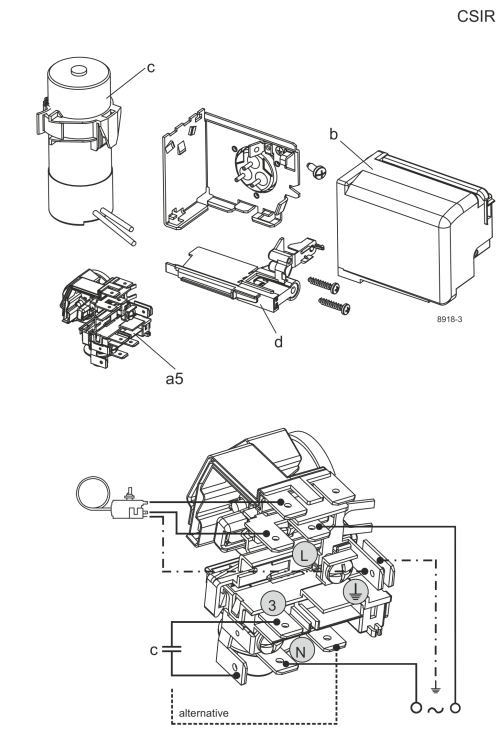
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB, KC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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



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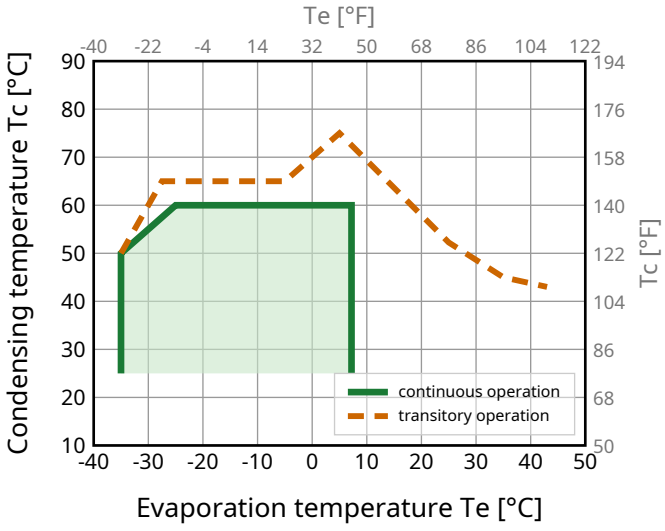
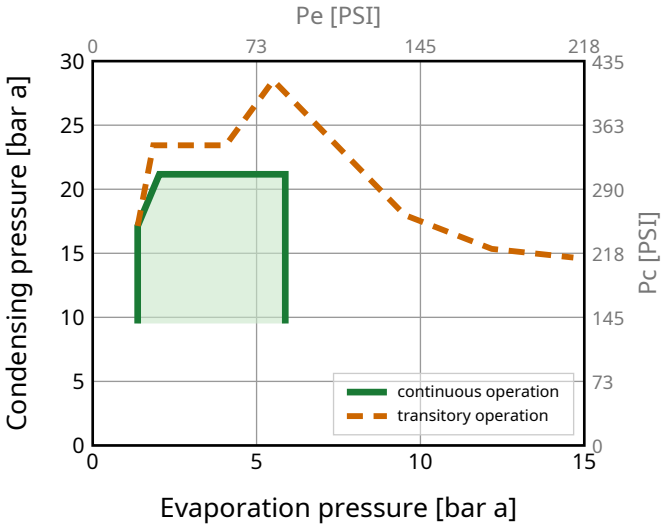
Components
a5 current relay (1218/L6 - S7) 117U7077
c start capacitor (80µF, 6.3mm) 117U5003
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF5.6CNT Configuration 3

Sales code:
106H2602

Standard Conditions

R290, 230 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	**334**	1138	287	**1.58**	5.41	210	1.34	3.39	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**248**	848	214	**1.23**	4.20	202	1.32	3.12	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**189**	644	162	**1.21**	4.13	156	1.19	2.17	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**604**	2061	519	**2.07**	7.05	292	1.62	6.92	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**478**	1631	411	**1.72**	5.87	278	1.57	6.08	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**539**	1839	463	**2.08**	7.11	258	1.50	6.63	**EN12900 MBP**

Performance Tables

R290, 230 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]
-35	-31	**180**	616	155	**1.14**	3.90	158	1.20	2.03
-30	-22	**232**	792	200	**1.31**	4.46	178	1.25	2.62
-20	-4	**371**	1266	319	**1.69**	5.77	219	1.37	4.22
-10	14	**560**	1912	482	**2.17**	7.39	258	1.50	6.43
0	32	**802**	2736	690	**2.78**	9.48	289	1.60	9.32
7.2	45	**1010**	3445	868	**3.36**	11.45	301	1.65	11.88

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

-35	-31	**156**	533	134	**1.02**	3.47	154	1.19	1.94
-30	-22	**196**	670	169	**1.11**	3.79	177	1.25	2.45
-20	-4	**313**	1067	269	**1.37**	4.69	228	1.40	3.94
-10	14	**478**	1631	411	**1.72**	5.87	278	1.57	6.08
0	32	**695**	2371	598	**2.16**	7.37	322	1.73	8.96
7.2	45	**884**	3017	760	**2.56**	8.73	345	1.82	11.55

Model
KLF5.6CNT Configuration 4

Sales code:
106H2602

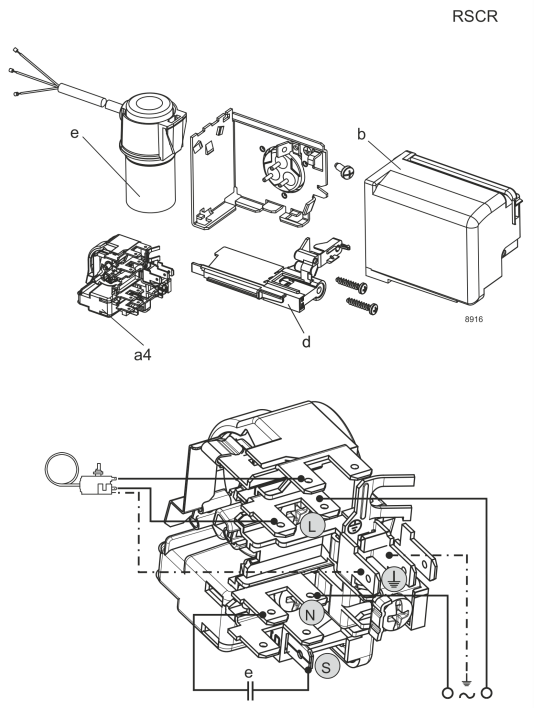
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**LST**
Approvals	**UL, CCC, CB, KC**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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



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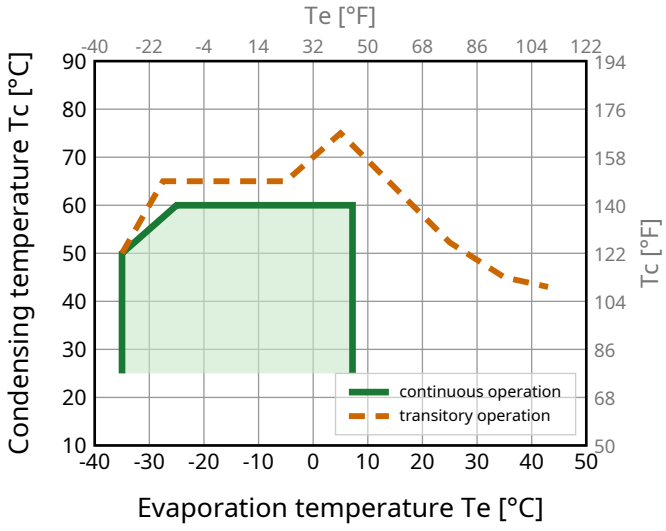
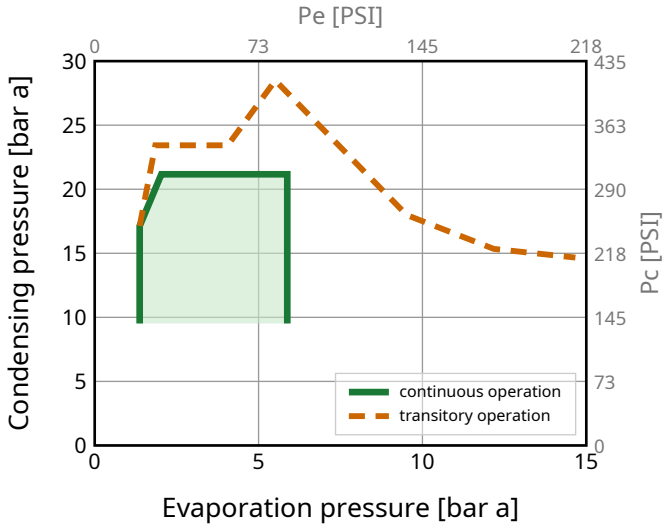
Components
a4 DAS7 (PTC, 6.3mm, T1218/L6 - S7) 103N0256
e run capacitor (5µF, 6,3mm) 117-7155
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF5.6CNT Configuration 4

Sales code:

106H2602

Standard Conditions

R290, 230 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	**340**	1161	293	**1.69**	5.75	202	1.04	3.46	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**254**	865	218	**1.31**	4.47	194	1.01	3.18	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**193**	657	166	**1.28**	4.37	150	0.83	2.21	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**616**	2103	530	**2.20**	7.50	280	1.38	7.06	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**488**	1664	419	**1.83**	6.24	267	1.32	6.20	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**550**	1876	473	**2.21**	7.56	248	1.24	6.77	**EN12900 MBP**

Performance Tables

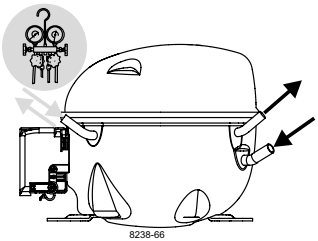
R290, 230 V/60 Hz, RSCR, fan 3m/s

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]
-35	-31	**184**	628	158	**1.21**	4.14	152	0.84	2.07
-30	-22	**237**	808	204	**1.39**	4.73	171	0.91	2.67
-20	-4	**379**	1292	326	**1.80**	6.13	211	1.08	4.31
-10	14	**572**	1950	492	**2.30**	7.85	248	1.24	6.56
0	32	**818**	2791	704	**2.95**	10.07	277	1.36	9.51
7.2	45	**1030**	3515	886	**3.57**	12.17	289	1.42	12.12

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

-35	-31	**159**	543	137	**1.08**	3.68	148	0.82	1.98
-30	-22	**200**	684	172	**1.18**	4.03	170	0.91	2.50
-20	-4	**319**	1088	274	**1.46**	4.98	218	1.11	4.01
-10	14	**488**	1664	419	**1.83**	6.24	267	1.32	6.20
0	32	**709**	2419	610	**2.30**	7.83	309	1.50	9.14
7.2	45	**902**	3079	776	**2.72**	9.29	331	1.61	11.79



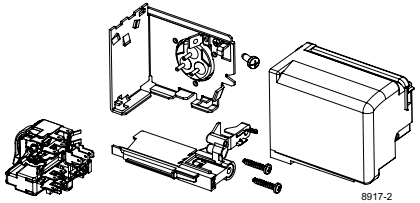
KL Compressors

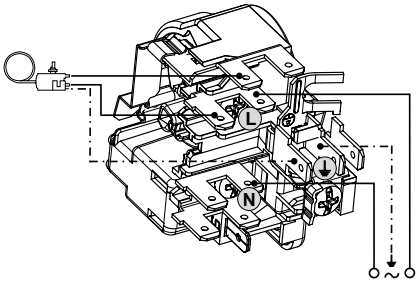
SECOP

Keep electrical equipment clear from oil, chemicals, and water

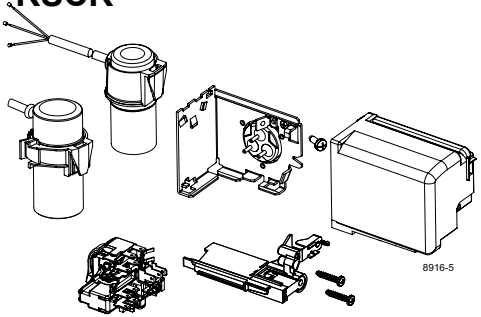
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

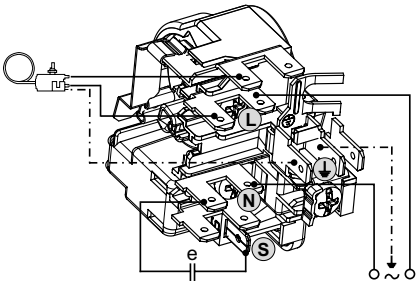
RSIR



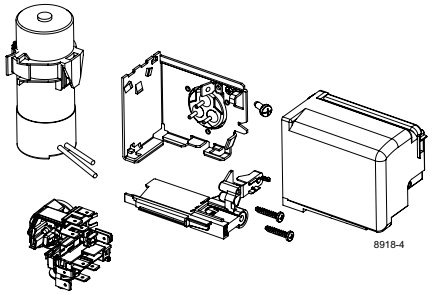


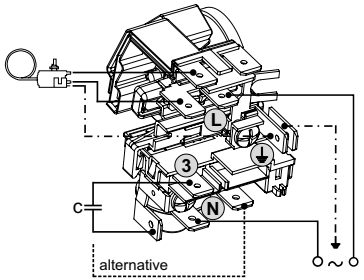
RSCR

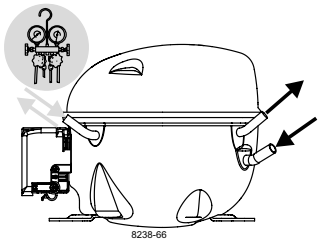




CSIR







KL Compressors

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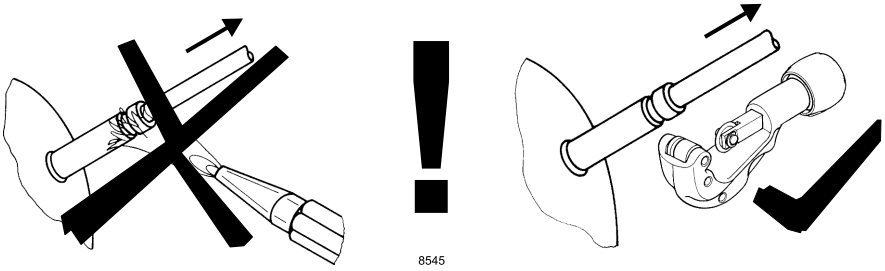
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**