Single
Packs

SECOP

Single Pack KLF6.6CNT 200-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4778**

Position	Title	Code	Amount
1	Compressor KLF6.6CNT	106H2702	1
2	Starting relay (QLZ-5.5A, overload protector T0377/L6)	117U7071	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
KLF6.6CNT

Sales code:
106H2702

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**200g / 7.05oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**6.60 cm3 / 0.40cu.in**
Compressors on pallet	**100**

General – Configurations With KLF6.6CNT

–	**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	OK	OK

Application Notes

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

Model
KLF6.6CNT

Sales code:
106H2702

Compressor Design

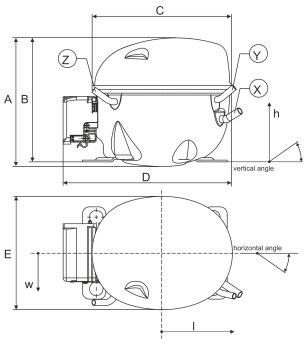
Oil type	**POE**	Winding resistance main	**8.4 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**11.9 Ohm**
Oil quantity	**170 / 5.75fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,583 cm3 / 53.53fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

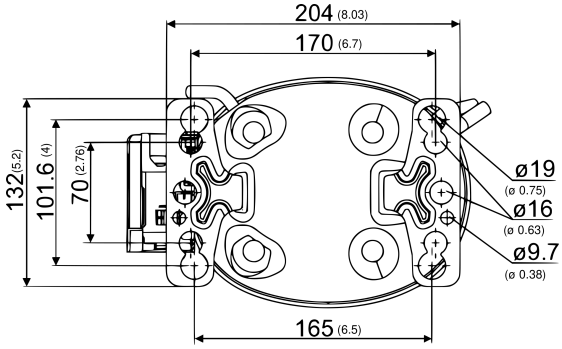
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



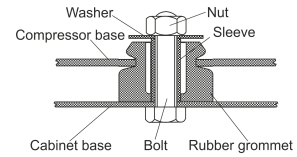
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

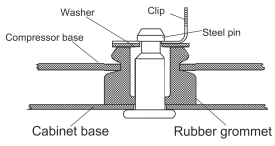


Dimensions in mm [in]

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
KLF6.6CNT Configuration 1

Sales code:
106H2702

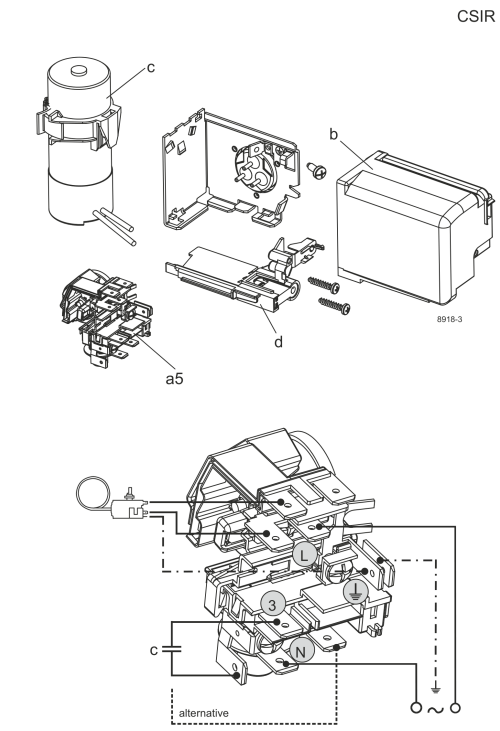
Configuration

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))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**12.3 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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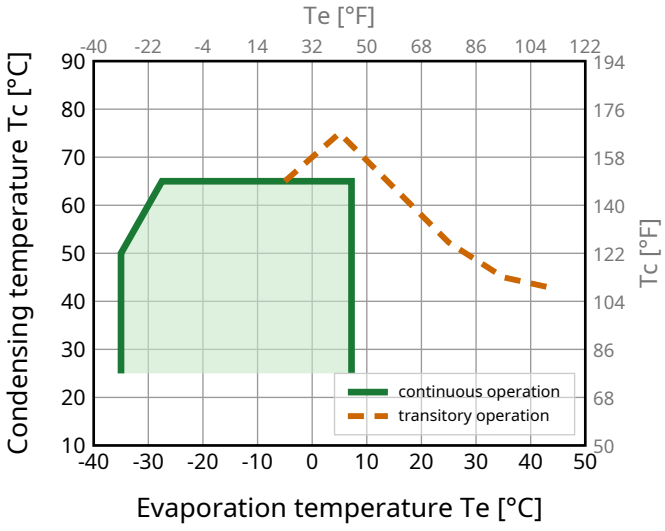
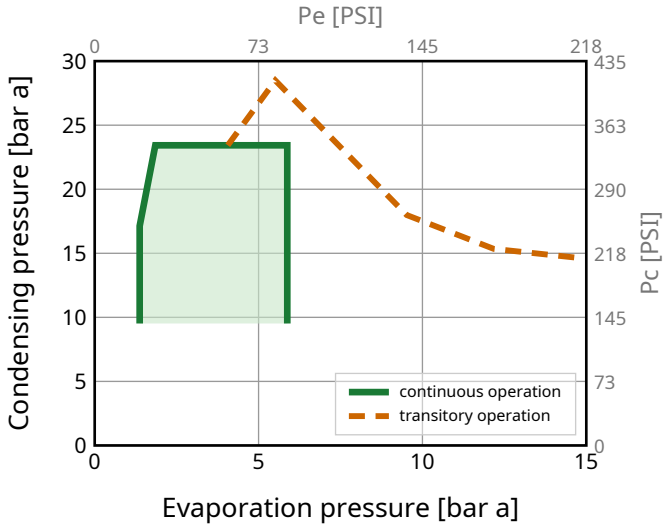
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5003
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF6.6CNT Configuration 1

Sales code:
106H2702

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	**335**	1144	288	**1.47**	5.03	228	1.60	3.41	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**250**	851	215	**1.14**	3.88	219	1.58	3.13	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**179**	609	154	**1.20**	4.08	149	1.42	2.05	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**585**	1996	503	**1.93**	6.59	303	1.84	6.70	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**468**	1596	402	**1.60**	5.47	292	1.81	5.95	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**517**	1763	444	**2.01**	6.84	258	1.69	6.36	**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	**178**	607	153	**1.12**	3.82	159	1.44	2.00
-30	-22	**233**	795	200	**1.28**	4.37	182	1.48	2.63
-20	-4	**366**	1248	315	**1.63**	5.58	224	1.59	4.16
-10	14	**537**	1833	462	**2.09**	7.12	258	1.69	6.17
0	32	**758**	2586	652	**2.70**	9.20	281	1.77	8.81
7.2	45	**953**	3251	819	**3.28**	11.20	290	1.80	11.21

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

-35	-31	**142**	483	122	**0.86**	2.95	164	1.44	1.76
-30	-22	**193**	657	166	**1.00**	3.42	192	1.50	2.41
-20	-4	**313**	1069	270	**1.28**	4.36	245	1.65	3.94
-10	14	**468**	1596	402	**1.60**	5.47	292	1.81	5.95
0	32	**666**	2273	573	**2.02**	6.89	330	1.94	8.59
7.2	45	**842**	2872	724	**2.40**	8.20	350	2.02	11.00

Model
KLF6.6CNT Configuration 2

Sales code:
106H2702

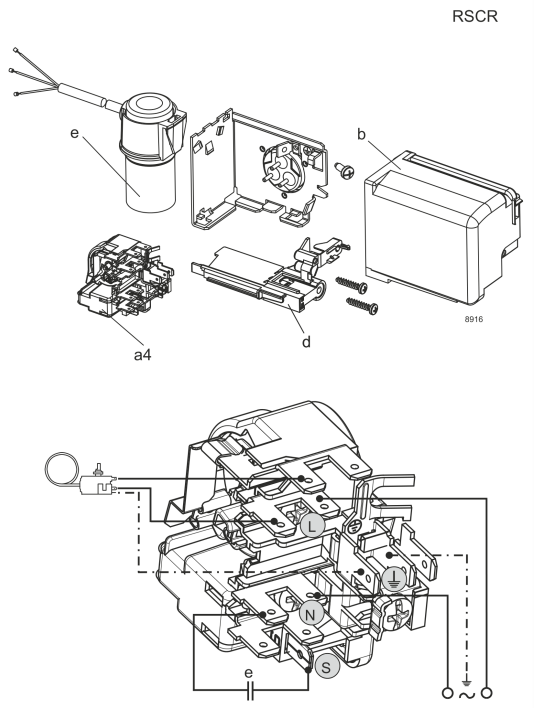
Configuration

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))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**12.3 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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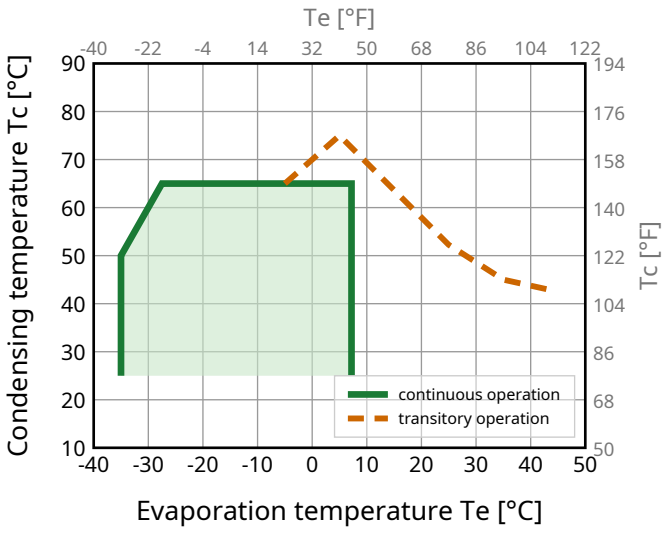
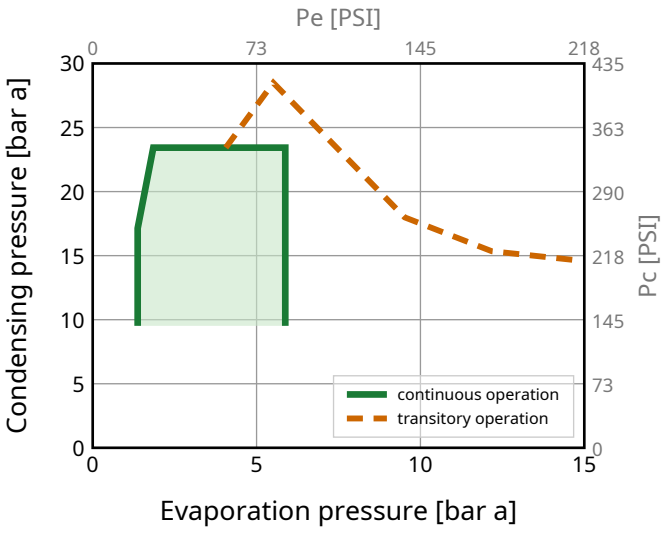
Components
a4 DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250
e run capacitor (5µF, 6,3mm) 117-7155
e1 retaining clamp 103N0535
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF6.6CNT Configuration 2

Sales code:

106H2702

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	**339**	1155	291	**1.53**	5.24	221	1.43	3.44	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**252**	860	217	**1.18**	4.04	213	1.41	3.16	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**180**	616	155	**1.25**	4.25	145	1.25	2.07	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**591**	2016	508	**2.01**	6.86	294	1.68	6.76	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**472**	1612	406	**1.67**	5.69	283	1.64	6.01	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**522**	1781	449	**2.09**	7.13	250	1.52	6.42	**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	**180**	613	155	**1.17**	3.98	154	1.27	2.02
-30	-22	**235**	803	202	**1.33**	4.55	176	1.31	2.66
-20	-4	**369**	1260	318	**1.70**	5.80	217	1.42	4.20
-10	14	**543**	1851	467	**2.17**	7.41	250	1.52	6.23
0	32	**765**	2612	658	**2.81**	9.58	273	1.60	8.90
7.2	45	**962**	3283	827	**3.42**	11.66	282	1.63	11.32

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

-35	-31	**143**	488	123	**0.90**	3.07	159	1.26	1.78
-30	-22	**195**	664	167	**1.04**	3.56	186	1.33	2.43
-20	-4	**317**	1080	272	**1.33**	4.54	238	1.48	3.98
-10	14	**472**	1612	406	**1.67**	5.69	283	1.64	6.01
0	32	**673**	2295	579	**2.10**	7.18	320	1.77	8.68
7.2	45	**850**	2901	731	**2.50**	8.54	340	1.85	11.11

Model
KLF6.6CNT Configuration 3

Sales code:
106H2702

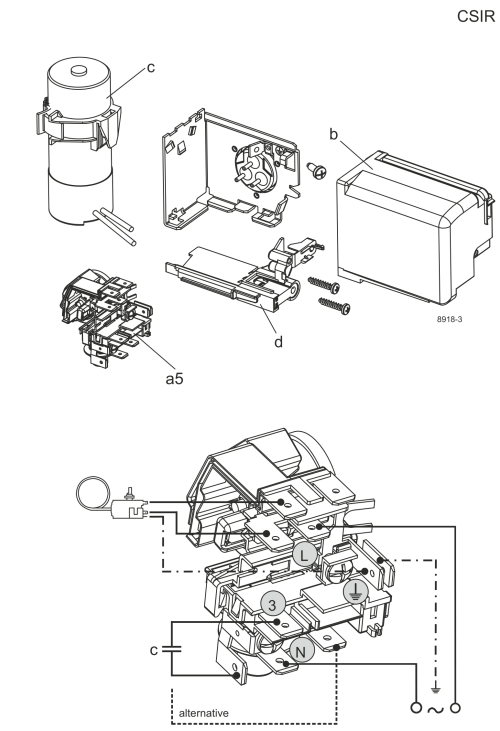
Configuration

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))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**12.3 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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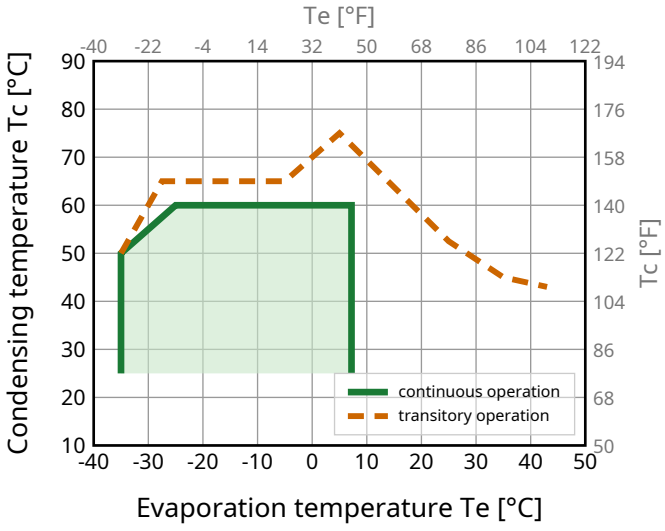
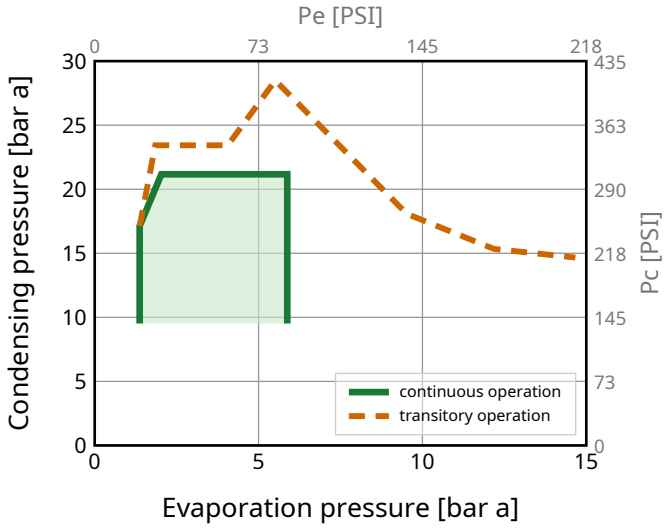
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5003
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF6.6CNT Configuration 3

Sales code:
106H2702

Standard Conditions

R290, 220 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	**410**	1398	352	**1.56**	5.34	262	1.71	4.16	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**306**	1045	263	**1.22**	4.15	252	1.68	3.84	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**217**	740	187	**1.22**	4.15	178	1.49	2.49	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**702**	2396	604	**1.99**	6.79	353	2.01	8.04	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**562**	1917	483	**1.66**	5.67	338	1.96	7.14	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**616**	2102	530	**2.01**	6.86	306	1.85	7.58	**EN12900 MBP**

Performance Tables

R290, 220 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	**210**	717	181	**1.13**	3.87	185	1.51	2.37
-30	-22	**278**	948	239	**1.29**	4.41	215	1.58	3.14
-20	-4	**436**	1489	375	**1.64**	5.60	266	1.72	4.96
-10	14	**640**	2185	551	**2.09**	7.13	306	1.85	7.35
0	32	**908**	3099	781	**2.69**	9.19	337	1.95	10.56
7.2	45	**1151**	3927	990	**3.25**	11.11	354	2.01	13.54

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

-35	-31	**177**	604	152	**0.96**	3.29	184	1.50	2.20
-30	-22	**239**	815	205	**1.09**	3.73	219	1.59	2.98
-20	-4	**381**	1300	328	**1.35**	4.60	282	1.77	4.79
-10	14	**562**	1917	483	**1.66**	5.67	338	1.96	7.14
0	32	**800**	2729	688	**2.07**	7.06	387	2.13	10.31
7.2	45	**1017**	3470	875	**2.44**	8.32	417	2.25	13.29

Model Sales code:

KLF6.6CNT Configuration 4 **106H2702**

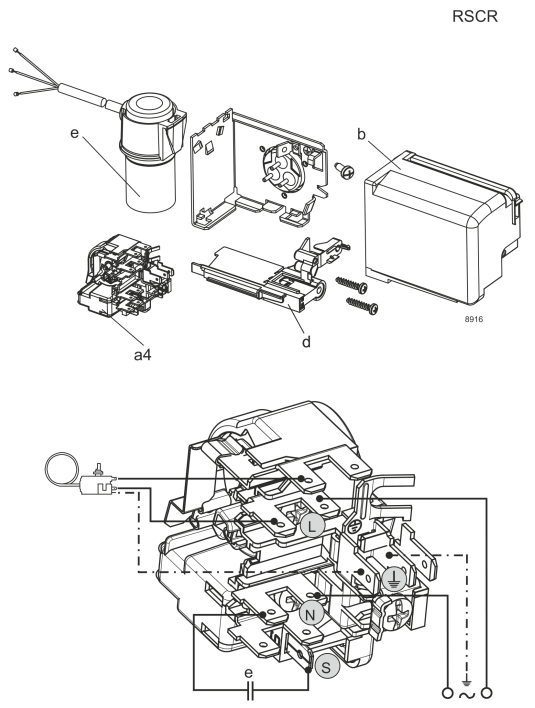
Configuration

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))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 A**
Cut in current (U(N))	**12.3 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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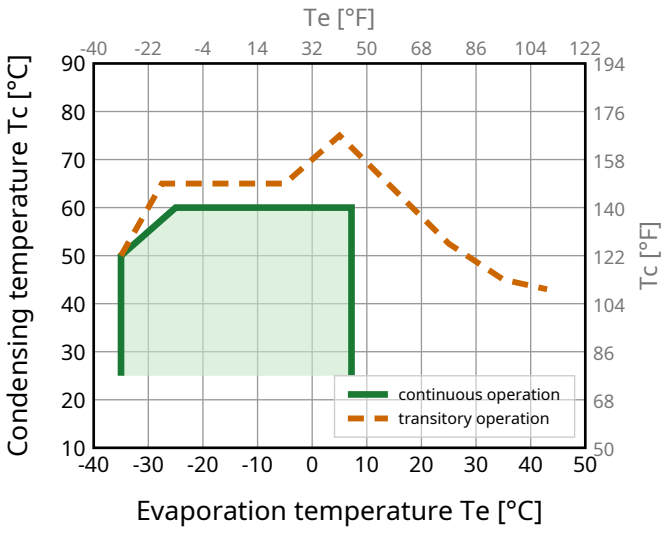
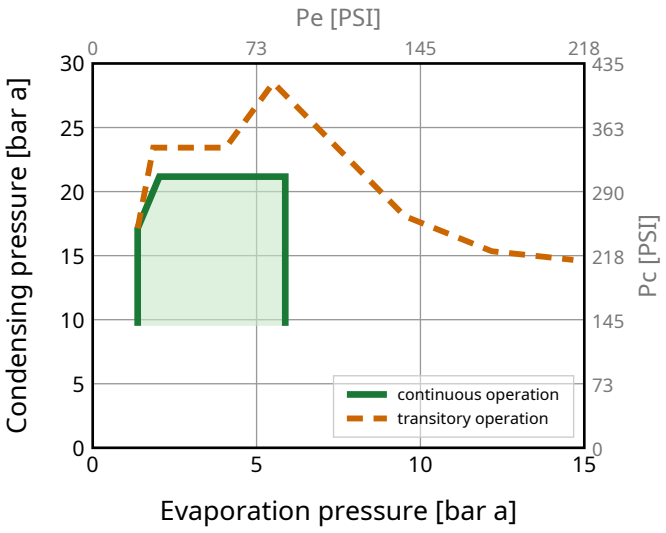
Components
a4 DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250
e run capacitor (5µF, 6,3mm) 117-7155
e1 retaining clamp 103N0535
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF6.6CNT Configuration 4

Sales code:

106H2702

Standard Conditions

R290, 220 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	**414**	1412	356	**1.64**	5.60	252	1.56	4.20	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**309**	1055	266	**1.28**	4.36	242	1.53	3.88	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**219**	748	188	**1.28**	4.35	172	1.34	2.51	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**709**	2420	610	**2.09**	7.13	339	1.86	8.12	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**567**	1936	488	**1.74**	5.95	325	1.81	7.22	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**622**	2123	535	**2.11**	7.20	295	1.70	7.66	**EN12900 MBP**

Performance Tables

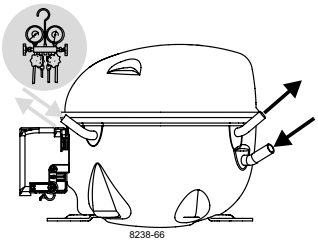
R290, 220 V/60 Hz, RSCR, fan 3m/s

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	**212**	724	182	**1.19**	4.06	178	1.36	2.39
-30	-22	**281**	957	241	**1.36**	4.63	207	1.43	3.17
-20	-4	**441**	1504	379	**1.72**	5.88	256	1.57	5.01
-10	14	**647**	2207	556	**2.19**	7.49	295	1.70	7.43
0	32	**917**	3130	789	**2.83**	9.65	324	1.80	10.67
7.2	45	**1162**	3966	1000	**3.42**	11.66	340	1.86	13.67

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

-35	-31	**179**	610	154	**1.01**	3.45	177	1.34	2.23
-30	-22	**241**	823	208	**1.15**	3.91	210	1.44	3.02
-20	-4	**385**	1313	331	**1.42**	4.83	272	1.62	4.84
-10	14	**567**	1936	488	**1.74**	5.95	325	1.81	7.22
0	32	**808**	2757	695	**2.17**	7.41	372	1.98	10.42
7.2	45	**1027**	3505	883	**2.56**	8.73	402	2.10	13.42



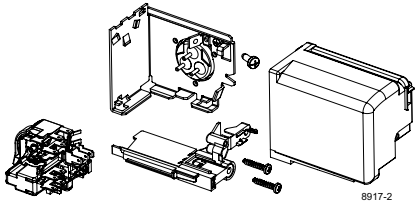
KL Compressors

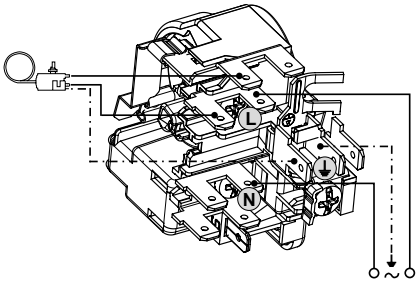
SECOP

Keep electrical equipment clear from oil, chemicals, and water

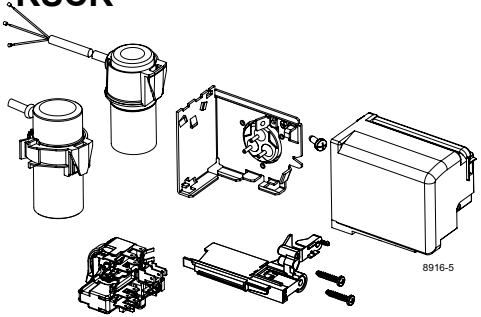
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

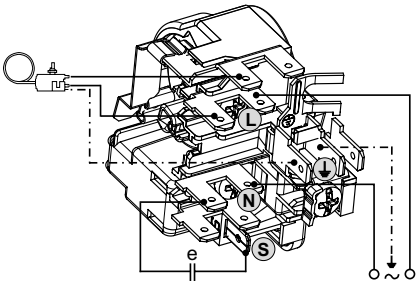
RSIR



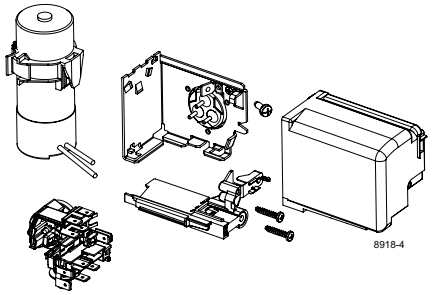


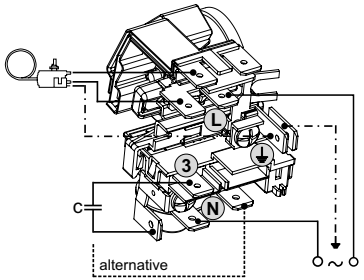
RSCR

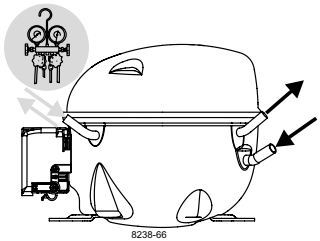




CSIR







KL Compressors

SECOP

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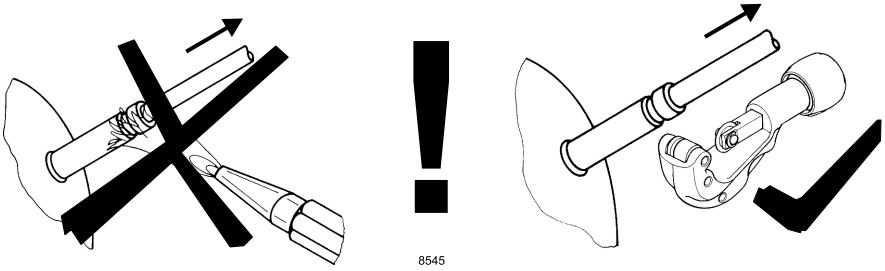
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**