Singolo
Imballi

Single Pack KLF4.0CND 220-240V 50Hz CSIR

Codice Imballo Singolo: **195B4797**

Posizione	Titolo	Codice	Quantità
1	Compressor KLF4.0CND	106H2405	1
2	Starting relay (QLZ-4.6A, overload protector T1189/L6)	117U7073	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5001	1
4	KL accessories	103N1060	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
KLF4.0CND

Sales code:
106H2405

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**200g / 7.05oz**
Weight	**8.95 kg / 19.73lbs**
Displacement	**4.00 cm3 / 0.24cu.in**
Compressors on pallet	**100**

General – Configurations With KLF4.0CND

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	RSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, CCC	VDE, 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

- Housing with dip-tray fixture (omega bracket).
- Housing with dip-tray fixture (omega bracket).
- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
KLF4.0CND

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Compressor Design

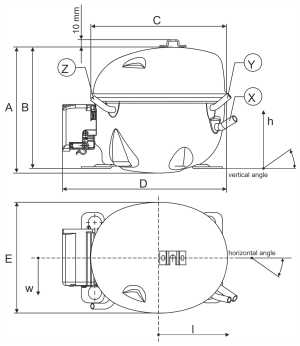
Oil type	**POE**	Winding resistance main	**13.1 Ohm**
Oil viscosity	**9,7cSt**	Winding resistance aux	**25.3 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,630 cm3 / 55.12fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

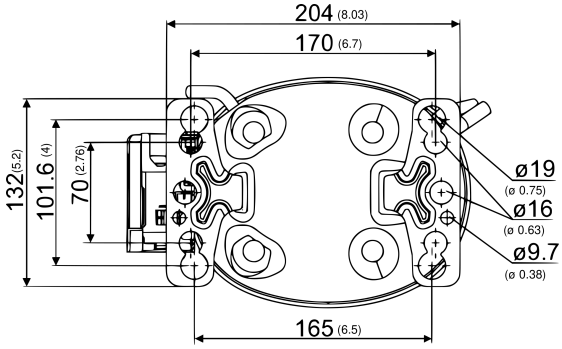
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



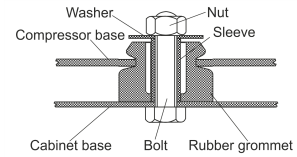
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

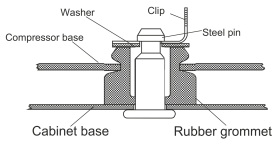


Dimensions in mm [in]

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
KLF4.0CND Configuration 1

Sales code:
106H2405

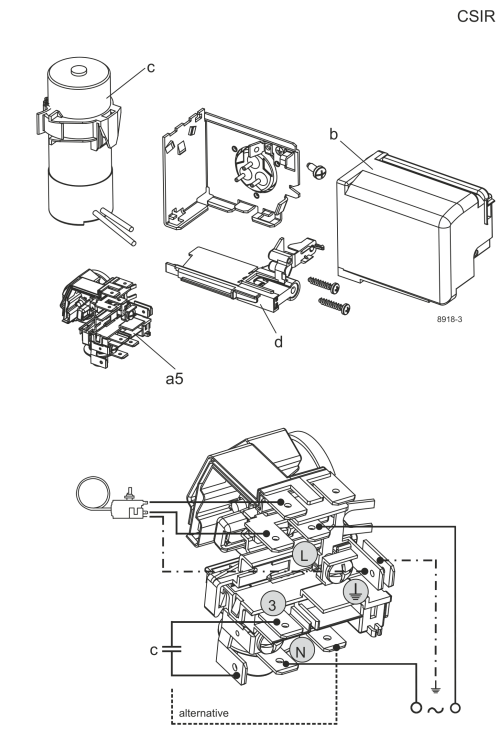
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.2 A**
RLA (rated load amps / 1s/ U(N))	**1.4 A**
Cut in current (U(N))	**12.65 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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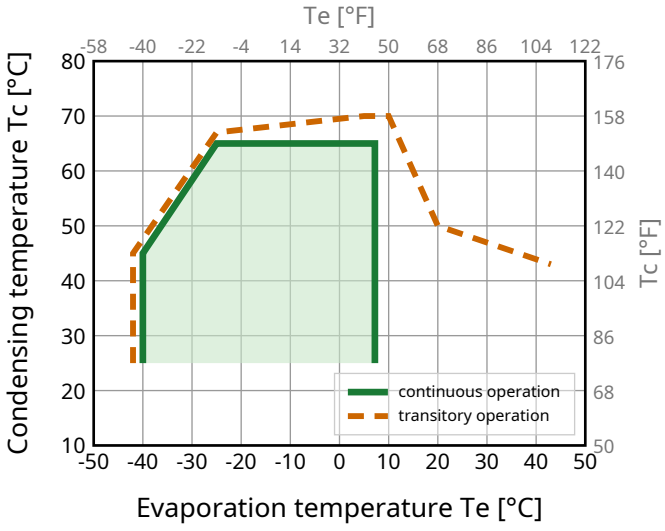
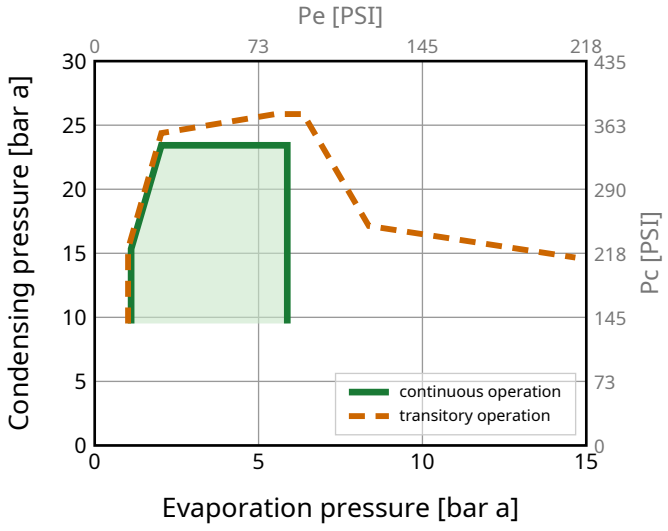
Components
a5 current relay (T1189/L6-S3) 117U7073
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF4.0CND Configuration 1

Sales code:
106H2405

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	**184**	627	158	**1.48**	5.06	124	0.99	1.87	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**136**	463	117	**1.13**	3.84	121	0.99	1.70	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**100**	342	86	**1.14**	3.88	88	0.91	1.15	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**336**	1145	289	**2.08**	7.10	161	1.10	3.84	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**265**	905	228	**1.71**	5.85	155	1.08	3.37	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**300**	1022	258	**2.14**	7.31	140	1.03	3.69	**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]
-40	-40	**67**	229	58	**0.80**	2.72	84	0.91	0.76
-30	-22	**127**	434	109	**1.25**	4.28	102	0.94	1.44
-20	-4	**206**	703	177	**1.71**	5.82	121	0.99	2.34
-10	14	**311**	1062	268	**2.23**	7.60	140	1.03	3.58
0	32	**451**	1540	388	**2.89**	9.87	156	1.08	5.25
7.2	45	**578**	1972	497	**3.51**	11.98	165	1.11	6.80

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

-40	-40	**48**	164	41	**0.52**	1.78	92	0.92	0.60
-30	-22	**103**	352	89	**0.94**	3.20	110	0.96	1.29
-20	-4	**173**	590	149	**1.31**	4.48	132	1.01	2.18
-10	14	**265**	905	228	**1.71**	5.85	155	1.08	3.37
0	32	**388**	1323	334	**2.19**	7.49	177	1.15	5.00
7.2	45	**500**	1704	430	**2.62**	8.94	191	1.20	6.53

Model
KLF4.0CND Configuration 2

Sales code:
106H2405

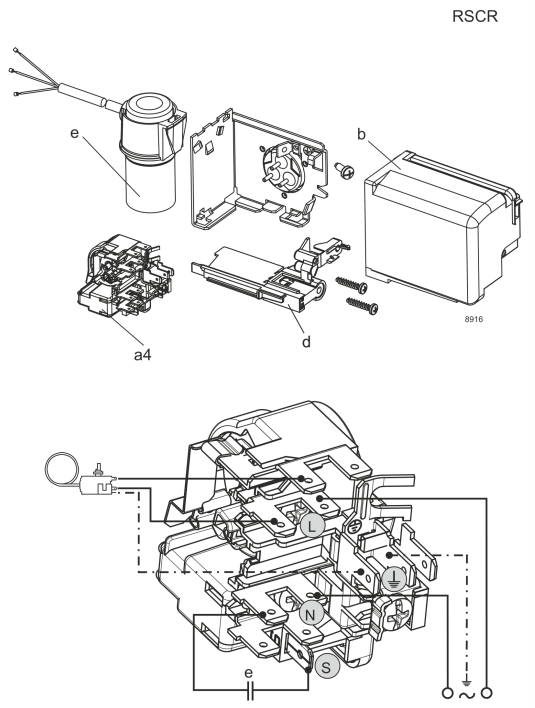
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE, CCC**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10.2 A**
RLA (rated load amps / 1s/ U(N))	**1.4 A**
Cut in current (U(N))	**12.65 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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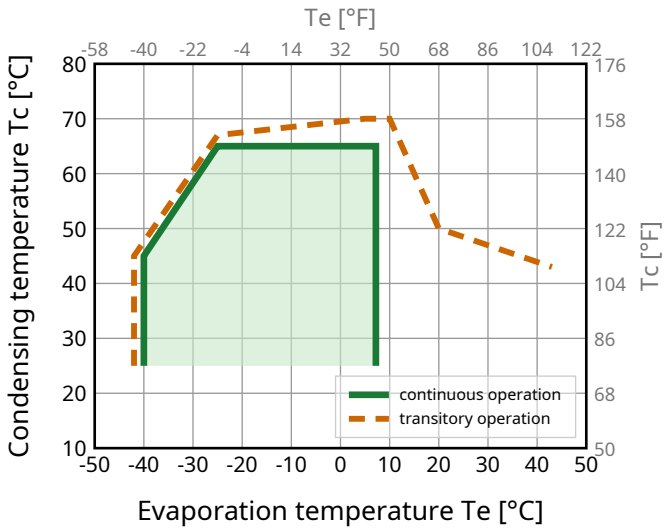
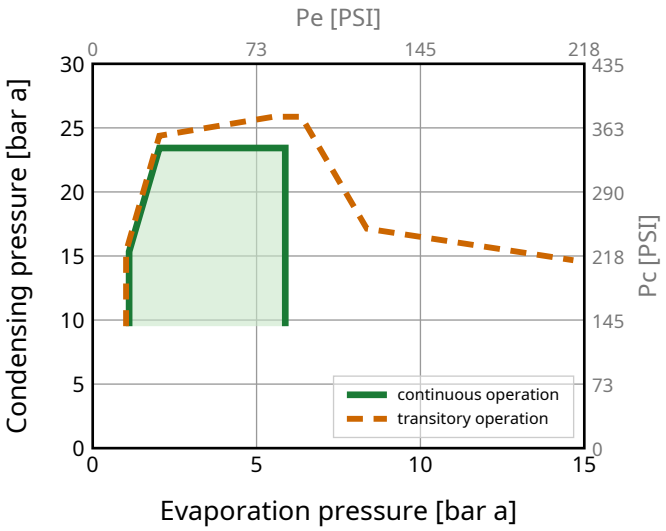
Components
a4 DAS3 (PTC,6.3mm, T1189/L6 - S3) 103N0254
e run capacitor (5µF, 6.3mm) 117-7191
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
a4 ZAS3 (PTC,4.8mm, T1189/L6 - S3) 103N0255
e run capacitor (5µF, 4.8mm) 117-7190
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model
KLF4.0CND Configuration 2

Sales code:
106H2405

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	**184**	629	158	**1.51**	5.15	122	0.68	1.87	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**136**	464	117	**1.14**	3.90	119	0.67	1.71	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**100**	343	86	**1.13**	3.85	89	0.57	1.15	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**336**	1148	289	**2.14**	7.31	157	0.82	3.85	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**266**	907	229	**1.76**	6.02	151	0.79	3.38	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**300**	1024	258	**2.19**	7.49	137	0.74	3.69	**EN12900 MBP**

Performance Tables

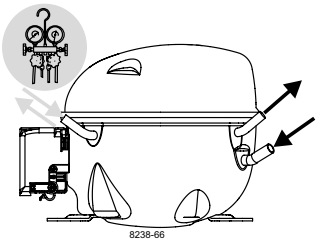
R290, 220 V/50 Hz, RSCR, fan 3m/s

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]
-40	-40	**67**	230	58	**0.79**	2.68	86	0.56	0.76
-30	-22	**127**	435	110	**1.26**	4.29	101	0.61	1.44
-20	-4	**206**	704	178	**1.73**	5.91	119	0.67	2.35
-10	14	**312**	1065	268	**2.28**	7.78	137	0.74	3.58
0	32	**452**	1544	389	**2.98**	10.16	152	0.80	5.26
7.2	45	**580**	1978	498	**3.62**	12.36	160	0.83	6.82

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

-40	-40	**48**	164	41	**0.52**	1.77	93	0.58	0.60
-30	-22	**104**	353	89	**0.95**	3.23	109	0.64	1.29
-20	-4	**173**	591	149	**1.34**	4.57	129	0.71	2.18
-10	14	**266**	907	229	**1.76**	6.02	151	0.79	3.38
0	32	**389**	1327	334	**2.27**	7.75	171	0.88	5.02
7.2	45	**501**	1709	431	**2.72**	9.28	184	0.93	6.54



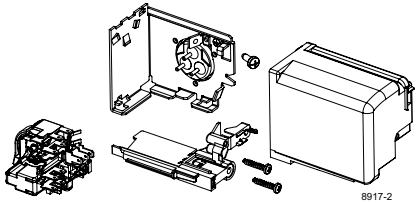
KL Compressors

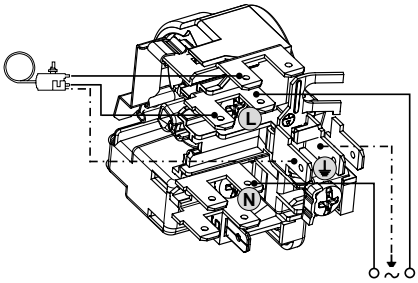
SECOP

Keep electrical equipment clear from oil, chemicals, and water

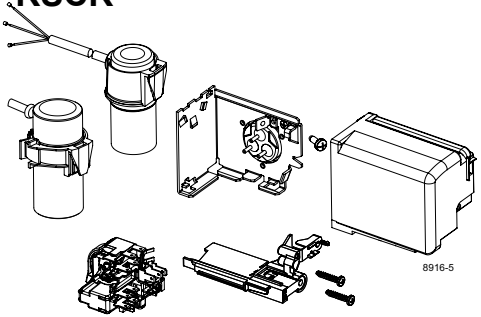
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

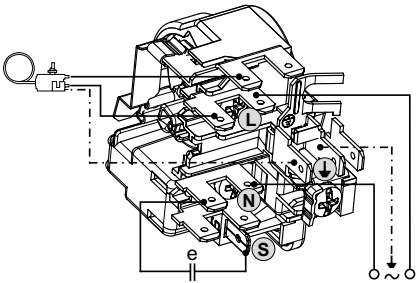
RSIR



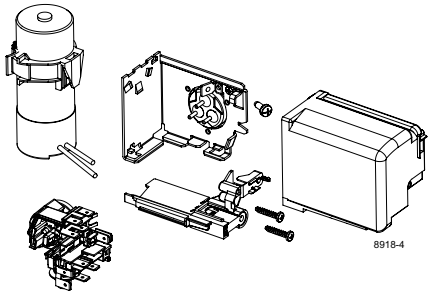


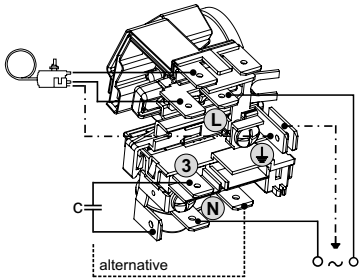
RSCR

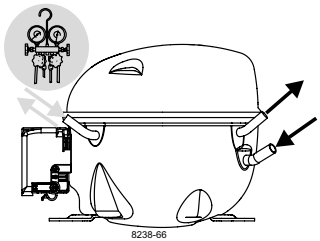




CSIR







KL Compressors

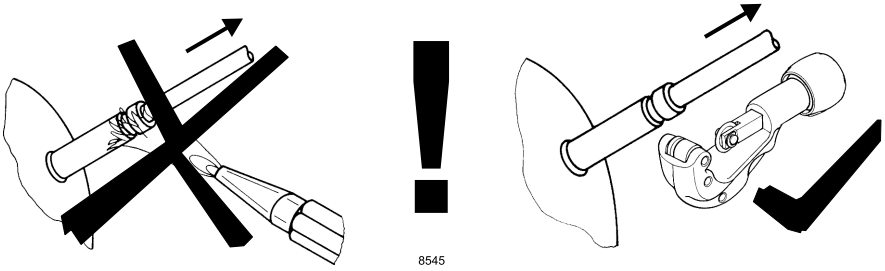
SECOP

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**