

Model

KLF4.0CND

Sales code:

106H2401

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

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

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Compressor Design

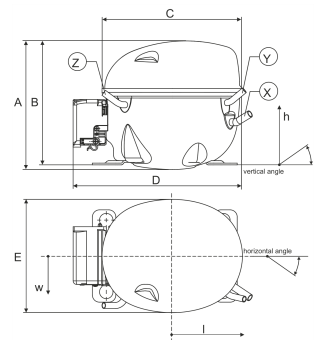
Oil type	POE	Winding resistance main	13.100 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	25.30 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,630 cm ³ / 55.12fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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

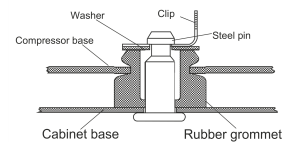
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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

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Configuration 1

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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

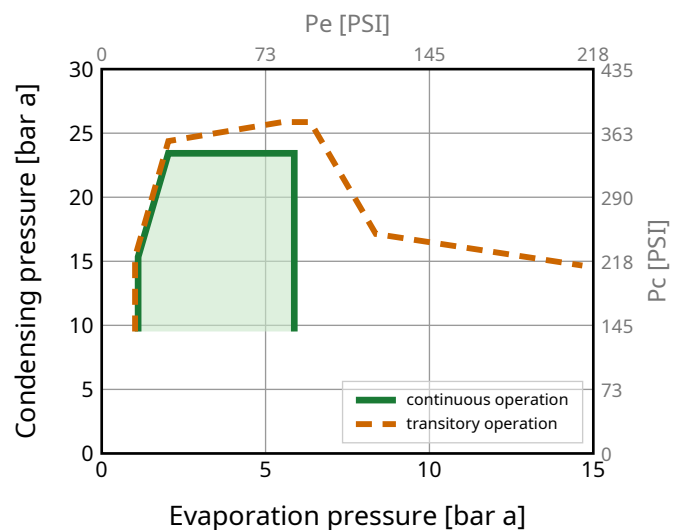
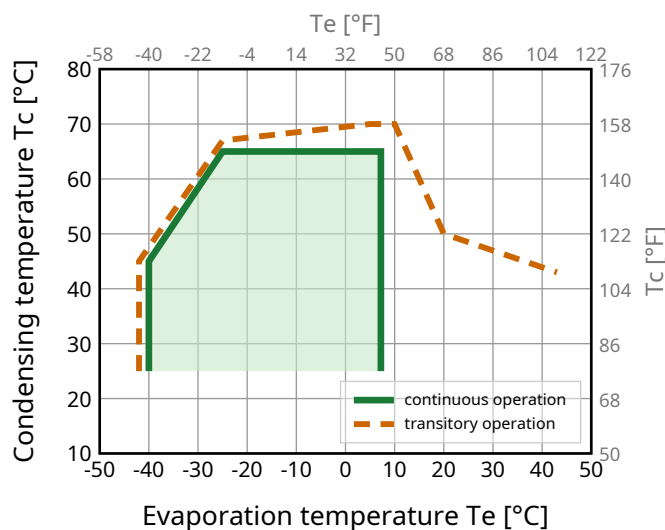
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components

b, d 100x cover + clamp + screws (5VA) 103N2060

b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range



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Configuration 1

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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	m
[°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

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Configuration 2

Sales code:
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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

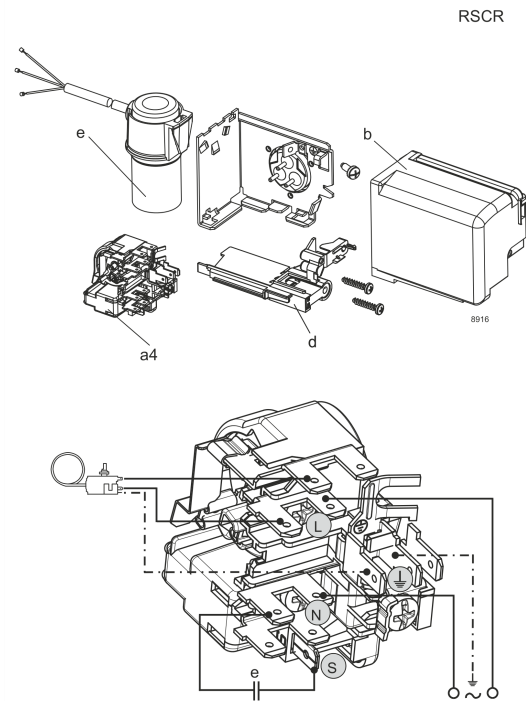
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a4 DAS3 (PTC,6.3mm, T1189/L6 - S3) 103N0254

e run capacitor (5 μ F, 6.3mm) 117-7191

b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components

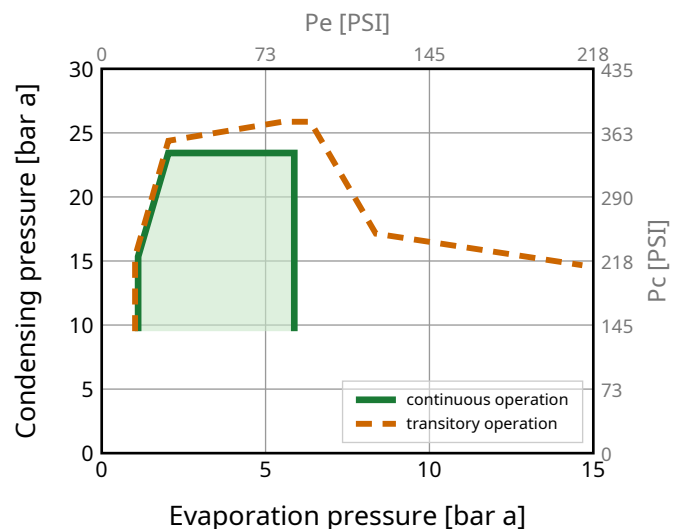
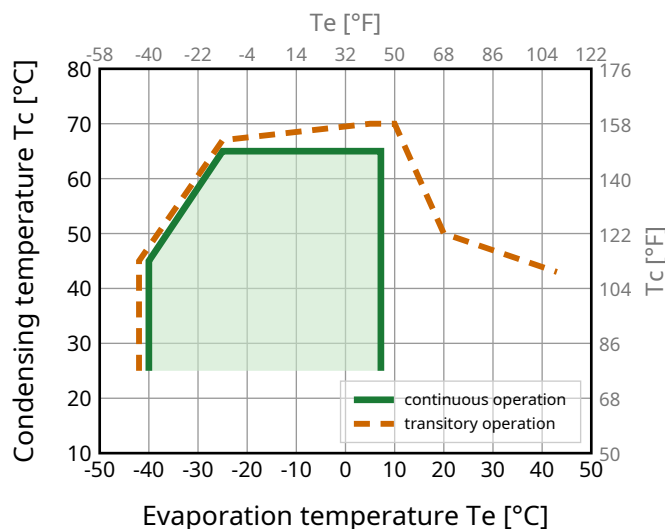
a4 ZAS3 (PTC,4.8mm, T1189/L6 - S3) 103N0255

e run capacitor (5 μ F, 4.8mm) 117-7190

b, d 100x cover + clamp + screws (5VA) 103N2060

b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range



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Configuration 2

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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	m
[°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