

Model
KLF5.6CND

Sales code:
106H2605

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 KLF5.6CND

-	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

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Compressor Design

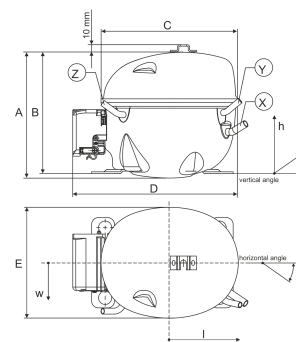
Oil type	POE	Winding resistance main	10.700 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	17.00 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,605 cm ³ / 54.27fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

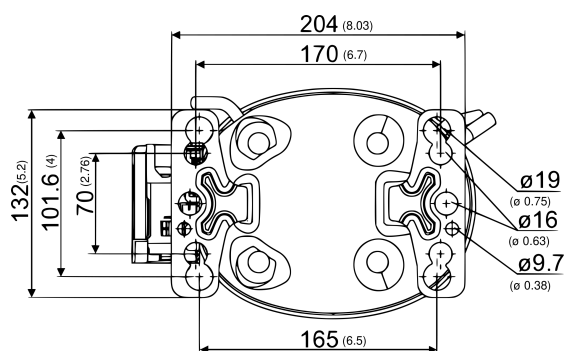
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

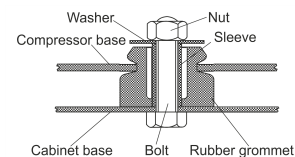


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

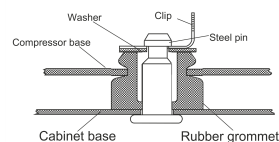
Mounting Accessories



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

Model

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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))	11.4 A
RLA (rated load amps / 1s/ U(N))	1.6 A
Cut in current (U(N))	10.7 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 (T0089/L6-S2) 117U7070

c start capacitor (80µF, 6.3mm) 117U5001

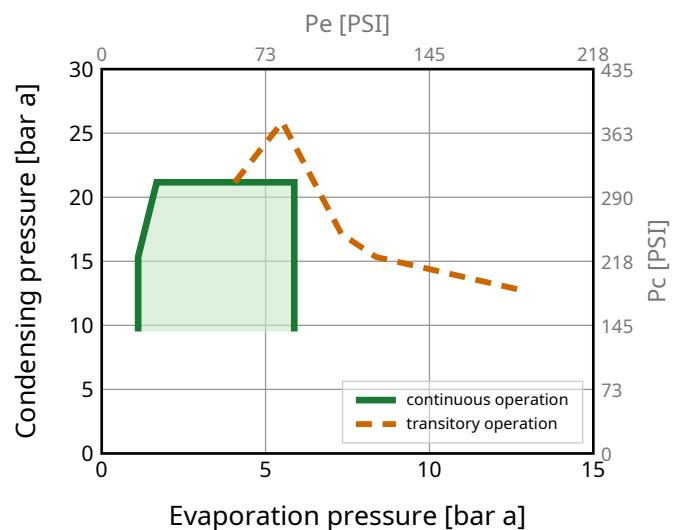
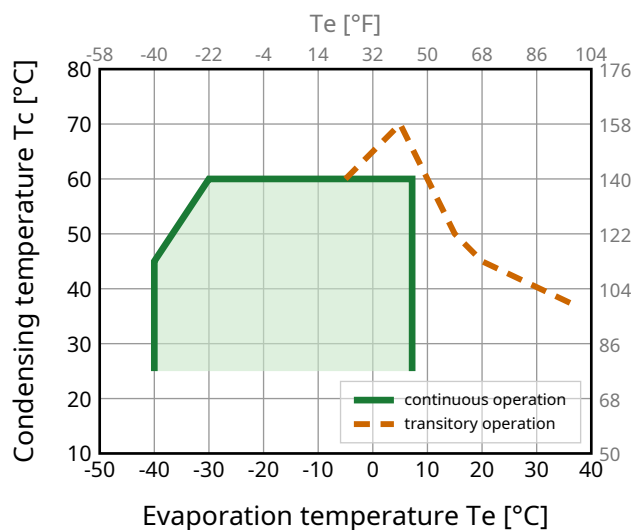
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	275	939	237	1.55	5.30	177	1.22	2.79	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	204	695	175	1.19	4.07	171	1.20	2.55	CECOMAF LBP
-35 -31	40 104	20 68	40 104	149	509	128	1.21	4.12	123	1.07	1.71	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	495	1688	425	2.07	7.07	239	1.43	5.66	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	392	1338	337	1.72	5.86	228	1.39	4.99	CECOMAF MBP
-10 14	45 113	20 68	45 113	436	1487	375	2.10	7.15	208	1.32	5.36	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	113	384	97	0.97	3.31	116	1.06	1.27
-30	-22	191	651	164	1.30	4.45	146	1.13	2.15
-20	-4	301	1026	259	1.69	5.76	178	1.22	3.42
-10	14	453	1545	389	2.18	7.43	208	1.32	5.20
0	32	658	2246	566	2.84	9.68	232	1.40	7.65
7.2	45	845	2882	727	3.47	11.84	244	1.45	9.94

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

-40	-40	76	259	65	0.66	2.23	116	1.06	0.94
-30	-22	156	533	134	1.03	3.51	152	1.14	1.95
-20	-4	258	880	222	1.35	4.62	190	1.26	3.25
-10	14	392	1338	337	1.72	5.86	228	1.39	4.99
0	32	569	1943	490	2.18	7.43	262	1.52	7.34
7.2	45	730	2489	627	2.60	8.87	280	1.59	9.53

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Configuration 2

Sales code:
106H2605

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))	11.4 A
RLA (rated load amps / 1s/ U(N))	1.6 A
Cut in current (U(N))	10.7 A

Ambient/ machine room temperatures minimum /maximum

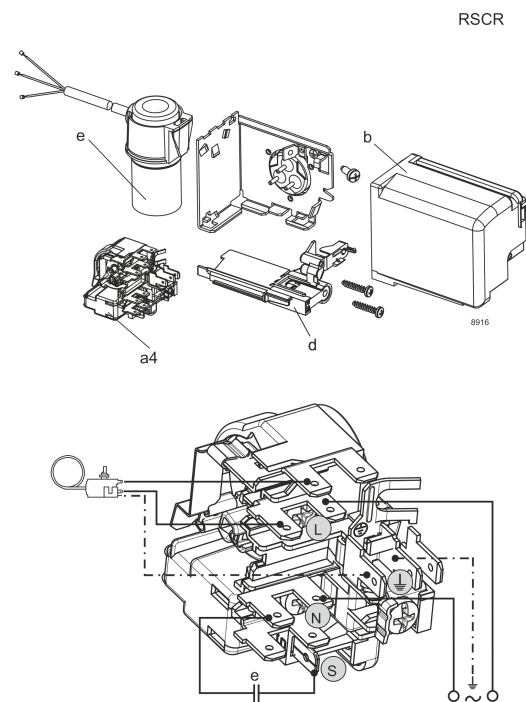
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a4 DAS2 (PTC,6.3mm, T0089/L6 - S2) 103N0251

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

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

Alternative components

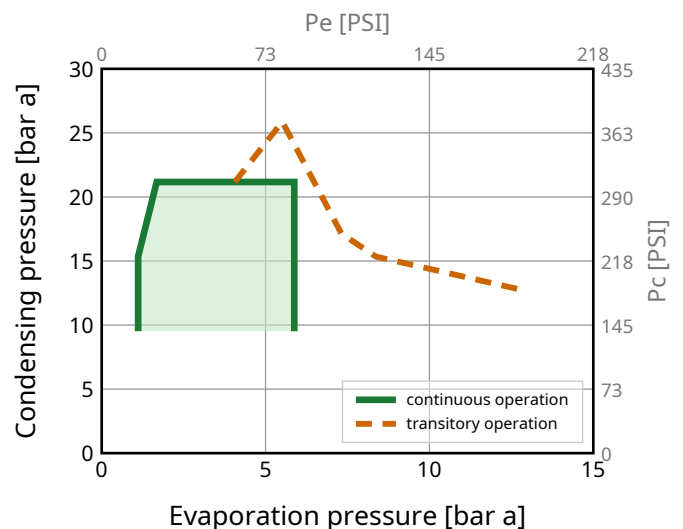
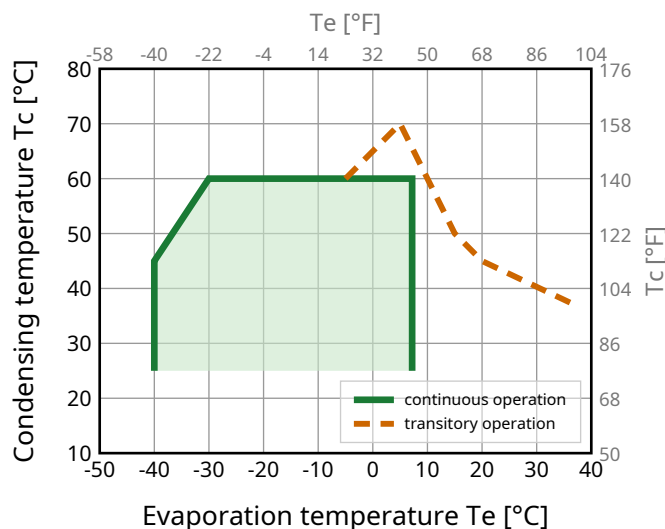
a4 ZAS2 (PTC,4.8mm, T0089/L6 - S2) 103N0253

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	278	950	239	1.62	5.54	171	0.92	2.83	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	206	703	177	1.25	4.25	165	0.90	2.58	CECOMAF LBP
-35 -31	40 104	20 68	40 104	151	515	130	1.26	4.29	120	0.73	1.73	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	501	1709	431	2.17	7.40	231	1.17	5.73	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	397	1355	341	1.80	6.13	221	1.13	5.05	CECOMAF MBP
-10 14	45 113	20 68	45 113	441	1504	379	2.19	7.47	202	1.05	5.43	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	114	389	98	1.01	3.44	113	0.71	1.28
-30	-22	193	658	166	1.36	4.65	142	0.81	2.18
-20	-4	304	1038	262	1.76	6.02	172	0.93	3.46
-10	14	458	1564	394	2.27	7.76	202	1.05	5.26
0	32	666	2273	573	2.96	10.10	225	1.15	7.75
7.2	45	855	2918	735	3.62	12.35	236	1.20	10.06

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

-40	-40	77	262	66	0.68	2.32	113	0.71	0.95
-30	-22	158	539	136	1.07	3.67	147	0.83	1.97
-20	-4	261	891	224	1.42	4.83	184	0.97	3.29
-10	14	397	1355	341	1.80	6.13	221	1.13	5.05
0	32	576	1967	496	2.28	7.77	253	1.27	7.43
7.2	45	739	2521	635	2.72	9.28	272	1.35	9.65