

Model
KLF6.6CND

Sales code:
106H2700

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 KLF6.6CND

-	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

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

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Compressor Design

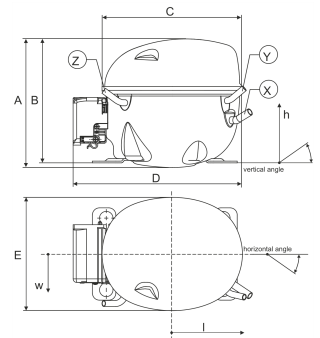
Oil type	POE	Winding resistance main	8.400 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	11.90 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,583 cm ³ / 53.53fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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



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))	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) 117U5001

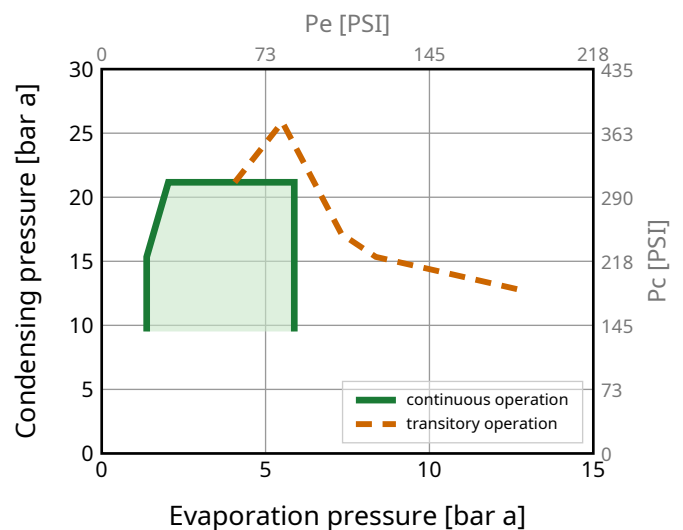
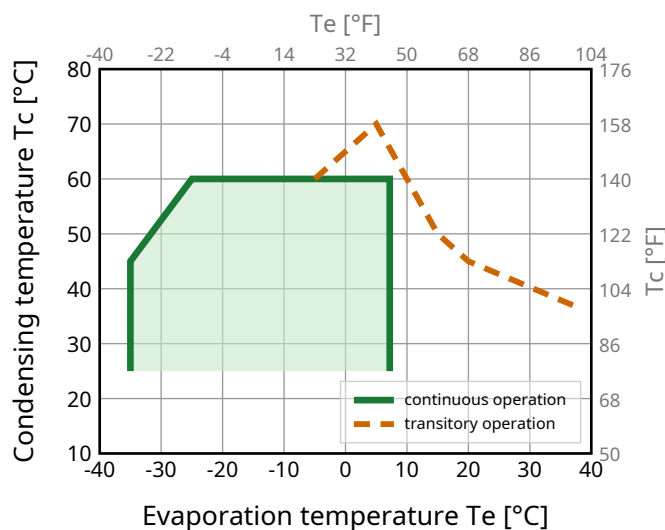
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	339	1155	291	1.51	5.17	224	1.59	3.44	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	252	858	216	1.17	3.98	216	1.57	3.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	188	642	162	1.20	4.11	156	1.42	2.16	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	596	2033	512	2.02	6.88	296	1.82	6.82	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	475	1621	409	1.67	5.69	285	1.78	6.04	CECOMAF MBP
-10 14	45 113	20 68	45 113	526	1795	452	2.05	6.98	257	1.69	6.47	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]
-35	-31	178	608	153	1.12	3.82	159	1.43	2.01
-30	-22	232	793	200	1.28	4.37	182	1.48	2.63
-20	-4	367	1253	316	1.65	5.63	222	1.58	4.18
-10	14	547	1866	470	2.13	7.26	257	1.69	6.28
0	32	783	2673	674	2.75	9.39	285	1.78	9.11
7.2	45	996	3398	856	3.32	11.33	300	1.83	11.71

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

-35	-31	140	477	120	0.86	2.95	162	1.44	1.74
-30	-22	193	658	166	1.02	3.48	189	1.50	2.41
-20	-4	317	1082	273	1.32	4.50	240	1.64	3.99
-10	14	475	1621	409	1.67	5.69	285	1.78	6.04
0	32	679	2317	584	2.12	7.22	321	1.91	8.76
7.2	45	861	2938	740	2.52	8.59	342	1.99	11.25

Model

KLF6.6CND

Configuration 2

Sales code:

106H2700

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))	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

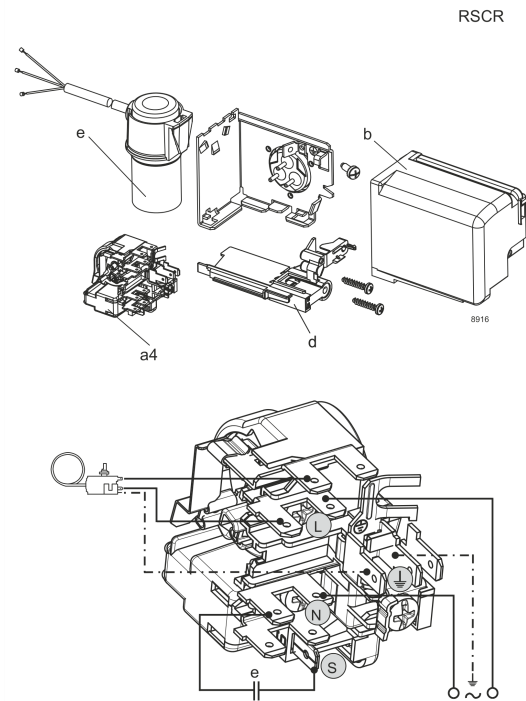
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a4 DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250

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

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

Alternative components

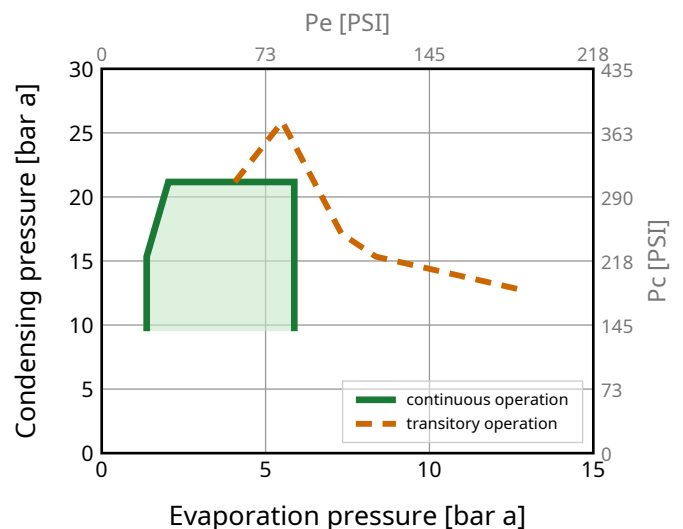
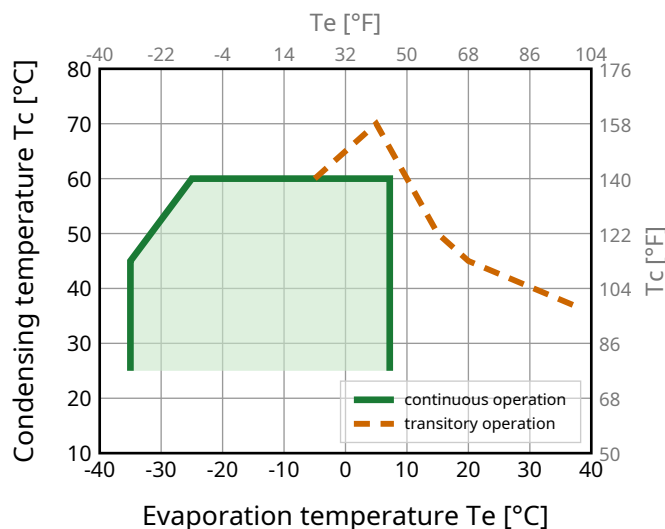
a4 ZAS1 (PTC,4.8mm, T0377/L6 - S1) 103N0252

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	339	1158	292	1.59	5.42	214	1.25	3.45	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	252	860	217	1.22	4.17	206	1.23	3.16	CECOMAF LBP
-35 -31	40 104	20 68	40 104	188	643	162	1.25	4.28	150	1.05	2.16	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	598	2039	514	2.12	7.24	282	1.51	6.84	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	476	1626	410	1.76	6.00	271	1.47	6.06	CECOMAF MBP
-10 14	45 113	20 68	45 113	527	1799	454	2.15	7.34	245	1.37	6.49	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]
-35	-31	178	608	153	1.17	3.98	153	1.06	2.01
-30	-22	233	794	200	1.34	4.56	174	1.12	2.63
-20	-4	368	1256	316	1.73	5.91	213	1.25	4.19
-10	14	548	1871	472	2.24	7.63	245	1.37	6.29
0	32	786	2681	676	2.90	9.88	271	1.47	9.14
7.2	45	999	3409	859	3.50	11.93	286	1.53	11.75

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

-35	-31	140	477	120	0.90	3.08	155	1.07	1.74
-30	-22	193	660	166	1.06	3.63	181	1.15	2.41
-20	-4	318	1085	273	1.38	4.72	230	1.31	4.00
-10	14	476	1626	410	1.76	6.00	271	1.47	6.06
0	32	681	2325	586	2.23	7.62	305	1.61	8.79
7.2	45	864	2949	743	2.66	9.07	325	1.69	11.29