

Model
KLF6.6CNHS

Sales code:
106H3703

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 KLF6.6CNHS

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz
Number of phases	1
Voltage range	95-140 V
Approvals	UL, CCC
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Very good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

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Compressor Design

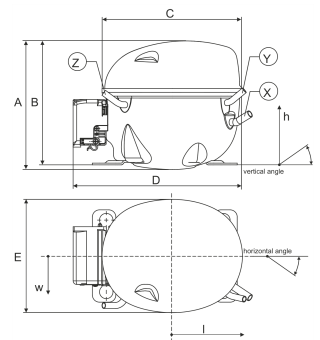
Oil type	POE	Winding resistance main	2.000 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	5.30 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,580 cm ³ / 53.43fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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](#)

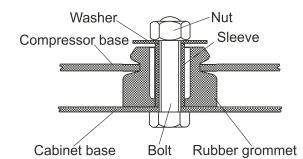


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

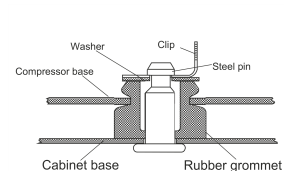
Mounting Accessories



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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Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-140 V
Starting torque	HST
Approvals	UL, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	31.1 A
RLA (rated load amps / 1s/ U(N))	4.3 A
Cut in current (U(N))	31.5 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 (T1141/L6-S6) 117U7076

c start capacitor (240µF) 117U5002

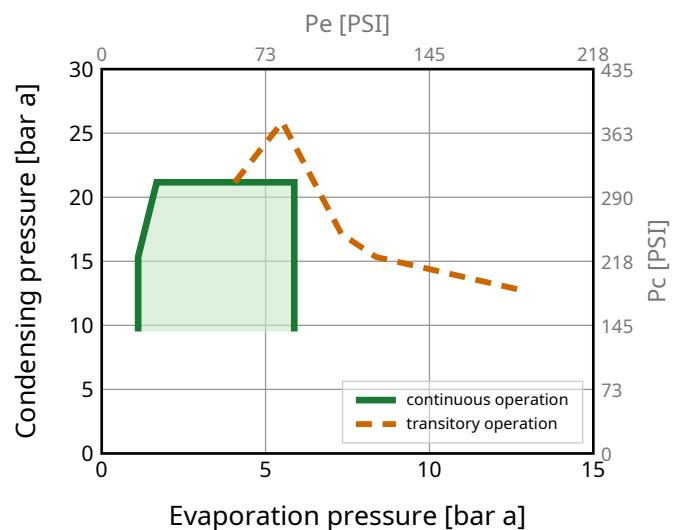
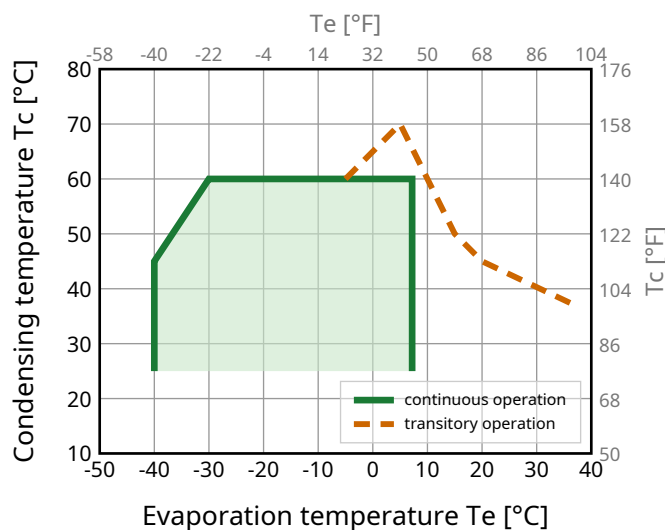
b, d cover + clamp + screws (5VA-compl.) 103N0600

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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Standard Conditions

R290, 115 V/60 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	385	1314	331	1.58	5.39	244	3.15	3.91	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	287	979	247	1.23	4.19	234	3.09	3.60	CECOMAF LBP
-35 -31	40 104	20 68	40 104	217	739	186	1.17	4.01	185	2.86	2.49	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	692	2362	595	2.02	6.91	342	3.80	7.93	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	548	1870	471	1.69	5.75	325	3.68	6.97	CECOMAF MBP
-10 14	45 113	20 68	45 113	618	2108	531	2.01	6.85	308	3.56	7.60	EN12900 MBP

Performance Tables

R290, 115 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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	156	533	134	0.96	3.29	162	2.77	1.75
-30	-22	268	913	230	1.29	4.39	208	2.96	3.02
-20	-4	427	1456	367	1.65	5.62	259	3.25	4.86
-10	14	642	2191	552	2.09	7.12	308	3.56	7.37
0	32	923	3149	794	2.67	9.11	346	3.83	10.73
7.2	45	1170	3993	1007	3.23	11.03	362	3.95	13.77

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

-40	-40	135	461	116	0.90	3.06	151	2.71	1.68
-30	-22	226	769	194	1.11	3.78	204	2.93	2.82
-20	-4	360	1229	310	1.36	4.65	264	3.28	4.53
-10	14	548	1870	471	1.69	5.75	325	3.68	6.97
0	32	798	2722	686	2.11	7.21	377	4.07	10.29
7.2	45	1021	3484	878	2.52	8.59	405	4.29	13.34