

Model
KLF6.6CNH

Sales code:
106H3700

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 KLF6.6CNH

-	Conf. 1	Conf. 2
Motor configuration	CSIR	RSCR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-140 V	95-140 V
Approvals	UL, CCC	UL, 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

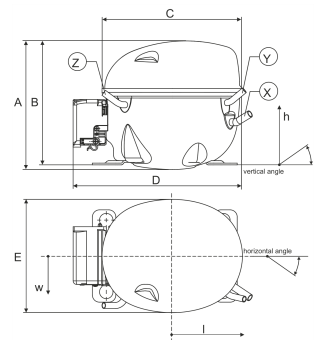
Oil type	POE	Winding resistance main	2.000 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	5.30 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,580 cm3 / 53.43fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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

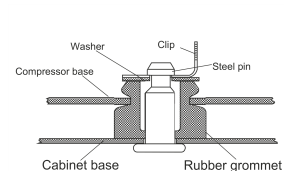
Mounting Accessories



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

Model
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Configuration 1

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Configuration

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

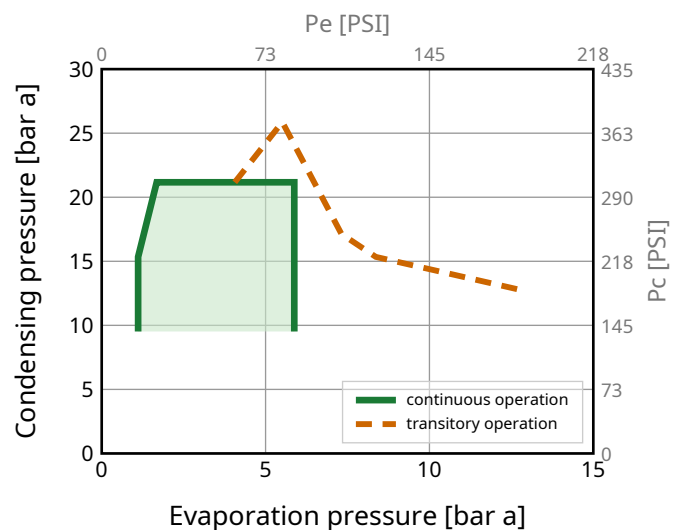
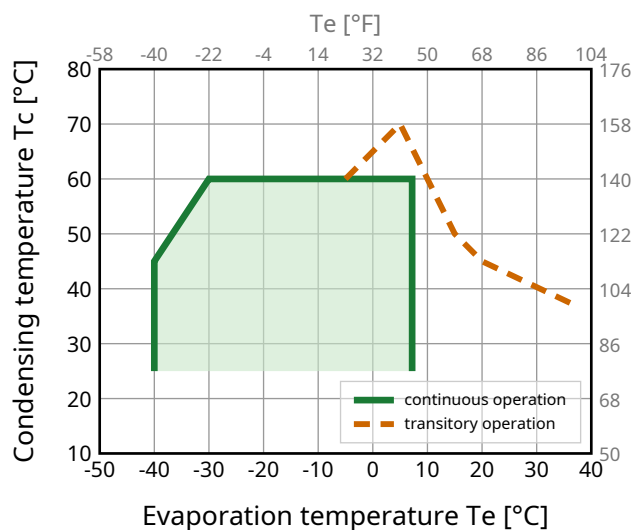
b, d cover + clamp + screws (5VA-compl.) 103N0600

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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Configuration 1

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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	399	1361	343	1.62	5.53	246	3.18	4.05	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	297	1014	256	1.26	4.30	236	3.13	3.73	CECOMAF LBP
-35 -31	40 104	20 68	40 104	224	766	193	1.20	4.11	186	2.89	2.58	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	718	2448	617	2.08	7.09	346	3.84	8.21	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	568	1938	488	1.73	5.90	328	3.72	7.22	CECOMAF MBP
-10 14	45 113	20 68	45 113	640	2184	551	2.06	7.02	311	3.60	7.88	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	162	552	139	0.99	3.37	164	2.80	1.82
-30	-22	278	947	239	1.32	4.51	210	2.99	3.13
-20	-4	442	1509	380	1.69	5.76	262	3.28	5.03
-10	14	666	2271	572	2.14	7.30	311	3.60	7.64
0	32	956	3263	823	2.74	9.34	349	3.87	11.12
7.2	45	1213	4139	1043	3.32	11.32	366	3.99	14.27

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

-40	-40	140	477	120	0.92	3.14	152	2.74	1.74
-30	-22	234	797	201	1.14	3.88	206	2.96	2.92
-20	-4	373	1274	321	1.40	4.77	267	3.31	4.70
-10	14	568	1938	488	1.73	5.90	328	3.72	7.22
0	32	827	2821	711	2.17	7.40	381	4.11	10.66
7.2	45	1058	3611	910	2.58	8.81	410	4.33	13.83

Model

KLF6.6CNH

Configuration 2

Sales code:

106H3700

Configuration

Motor configuration	RSCR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-140 V
Starting torque	LST
Approvals	UL, CCC
Starting device type	PTC
Run capacitor	15 μF
Start capacitor	-/-
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

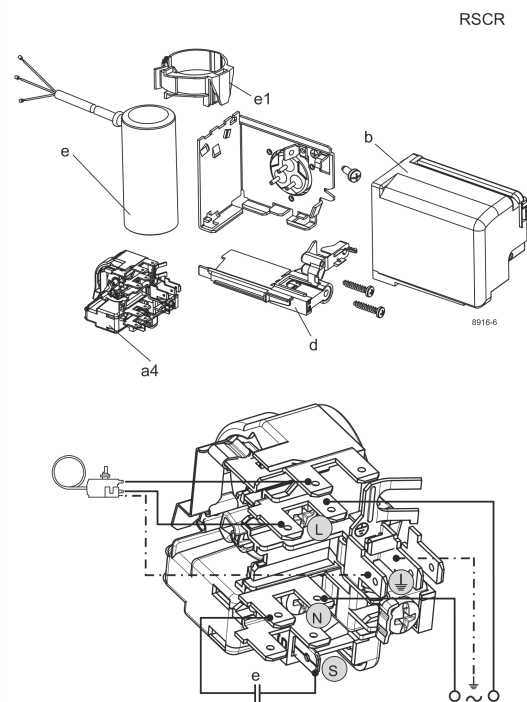
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a4 DLS 6 (PTC, 6.3mm, T1141/L6 - S6) 103N0214

e run capacitor (15 μ F, 6.3mm) 117-7153

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

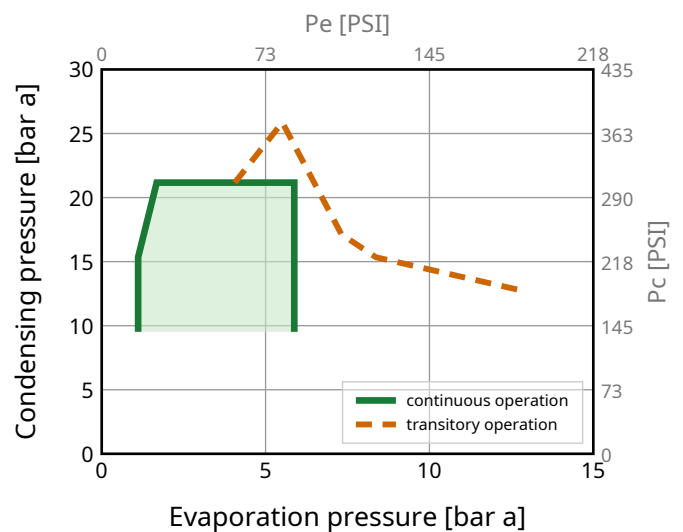
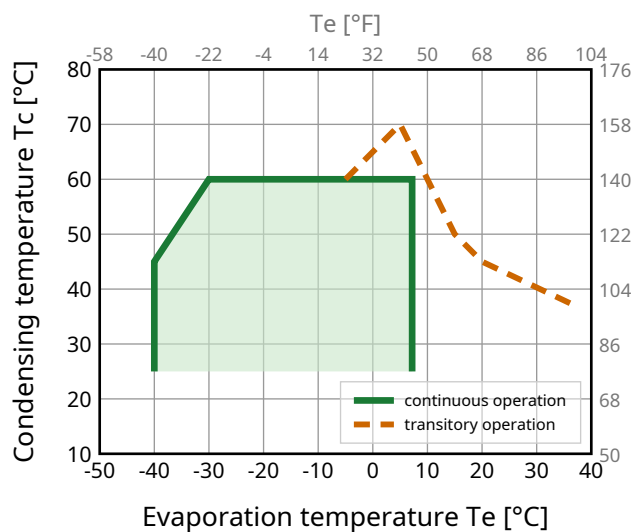
e1 retaining clamp 103N0535

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 2

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Standard Conditions

R290, 115 V/60 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	400	1367	344	1.73	5.91	231	2.14	4.07	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	298	1018	257	1.35	4.60	222	2.06	3.74	CECOMAF LBP
-35 -31	40 104	20 68	40 104	228	776	196	1.32	4.51	172	1.68	2.61	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	716	2443	616	2.21	7.54	324	2.92	8.20	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	568	1939	489	1.85	6.30	308	2.78	7.23	CECOMAF MBP
-10 14	45 113	20 68	45 113	638	2178	549	2.23	7.62	286	2.59	7.86	EN12900 MBP

Performance Tables

R290, 115 V/60 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	167	568	143	1.09	3.72	153	1.54	1.87
-30	-22	279	953	240	1.43	4.88	195	1.85	3.16
-20	-4	442	1510	381	1.83	6.24	242	2.23	5.03
-10	14	664	2264	571	2.32	7.92	286	2.59	7.62
0	32	950	3240	817	2.97	10.13	320	2.88	11.04
7.2	45	1200	4095	1032	3.59	12.24	335	3.01	14.12

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

-40	-40	139	476	120	0.97	3.33	143	1.45	1.73
-30	-22	234	800	202	1.21	4.14	193	1.83	2.93
-20	-4	375	1279	322	1.50	5.10	251	2.30	4.72
-10	14	568	1939	489	1.85	6.30	308	2.78	7.23
0	32	822	2805	707	2.30	7.83	358	3.21	10.60
7.2	45	1046	3570	900	2.71	9.25	386	3.45	13.67