

Model
KLF5.6CNH

Sales code:
106H3601

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	200g / 7.05oz
Weight	9.50 kg / 20.94lbs
Displacement	5.60 cm3 / 0.34cu.in
Compressors on pallet	100



General – Configurations With KLF5.6CNH

-	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

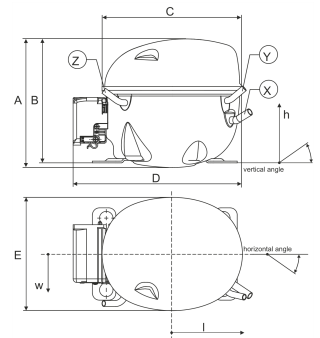
Oil type	POE	Winding resistance main	2 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	5.3 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,605 cm ³ / 54.27fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

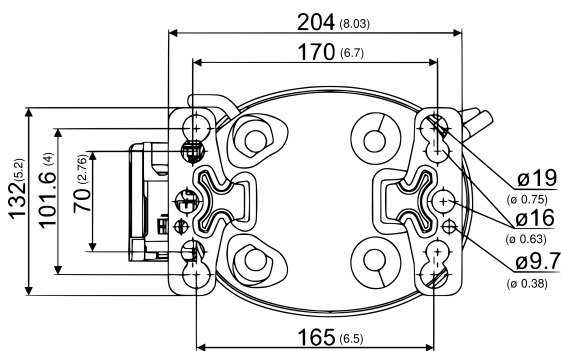
A Height	182mm / 7.17in
B Height	175mm / 6.89in
C Length shell	198mm / 7.80in
D Length w. cover	238mm / 9.37in
E Width	160mm / 6.30in

[Find 3D Model here](#)

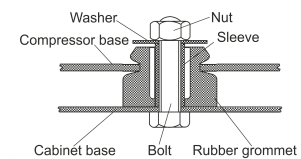


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

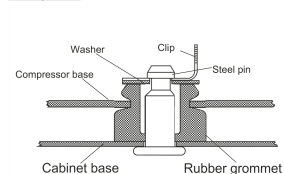
Mounting Accessories



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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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

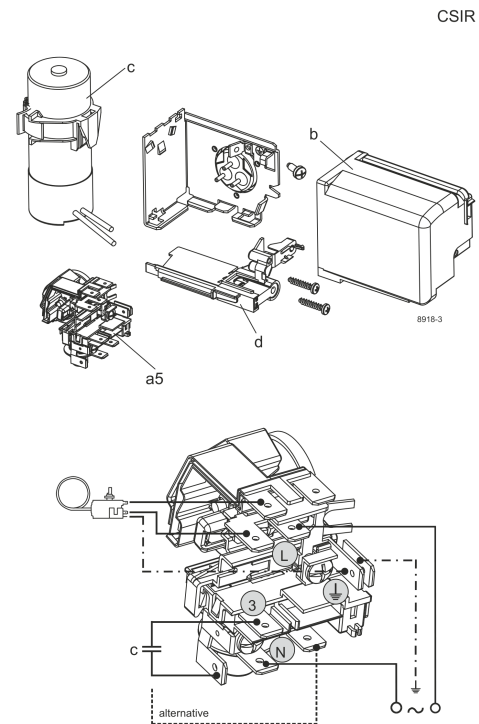
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a5 current relay (T1217/L6-S5) 117U7075

c start capacitor (240µF) 117U5002

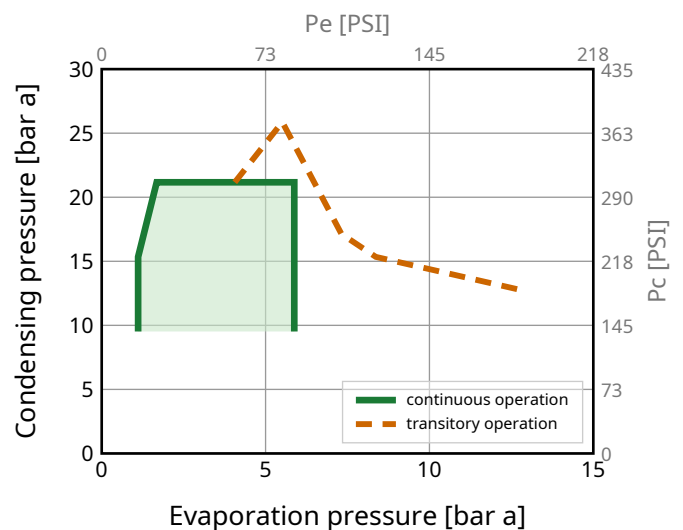
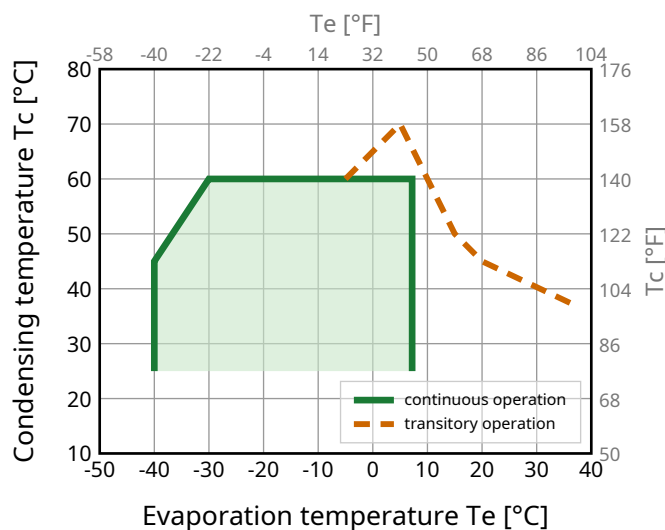
b, d cover + clamp + screws (5VA-compl.) 103N0600

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	341	1162	293	1.61	5.51	211	2.78	3.46	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	254	866	218	1.25	4.28	202	2.73	3.18	CECOMAF LBP
-35 -31	40 104	20 68	40 104	190	647	163	1.25	4.25	152	2.47	2.18	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	609	2078	524	2.11	7.20	289	3.28	6.97	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	484	1650	416	1.75	5.98	276	3.19	6.15	CECOMAF MBP
-10 14	45 113	20 68	45 113	539	1838	463	2.14	7.30	252	3.03	6.63	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	141	480	121	1.03	3.53	136	2.41	1.58
-30	-22	234	800	202	1.34	4.57	175	2.58	2.65
-20	-4	373	1272	321	1.73	5.91	215	2.80	4.24
-10	14	560	1910	482	2.23	7.59	252	3.03	6.43
0	32	799	2727	687	2.87	9.79	278	3.21	9.29
7.2	45	1006	3432	865	3.48	11.87	289	3.29	11.84

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

-40	-40	123	420	106	0.97	3.30	127	2.37	1.53
-30	-22	200	682	172	1.13	3.87	176	2.59	2.50
-20	-4	319	1088	274	1.40	4.77	228	2.88	4.01
-10	14	484	1650	416	1.75	5.98	276	3.19	6.15
0	32	698	2381	600	2.21	7.55	315	3.48	9.00
7.2	45	885	3019	761	2.64	9.00	335	3.63	11.56

Model

KLF5.6CNH

Configuration 2

Sales code:

106H3601

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

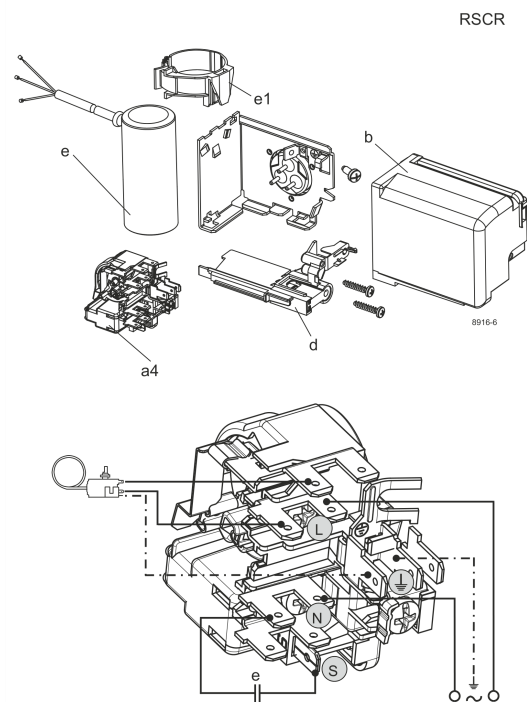
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a4 DLS5 (PTC,6.3mm, T1217/L6 - S5) 103N0212

e run capacitor (15 μ F, 6,3mm) 117-7153

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

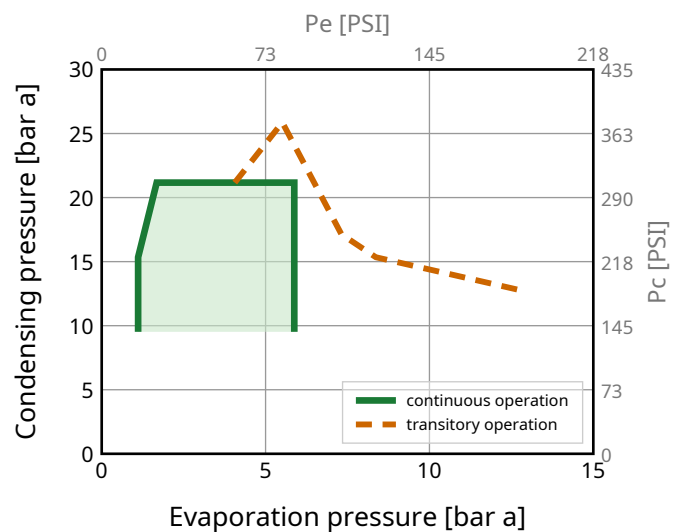
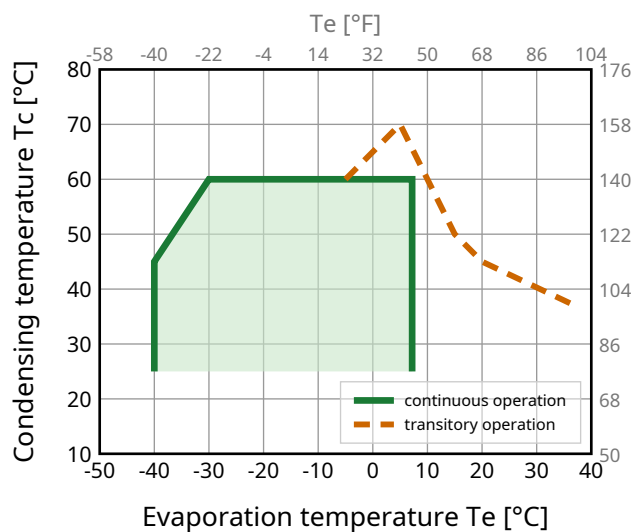
e1 retaining clamp 103N0535

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

Sales code:
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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	349	1189	300	1.70	5.80	205	2.07	3.54	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	260	888	224	1.32	4.51	197	2.00	3.26	CECOMAF LBP
-35 -31	40 104	20 68	40 104	190	647	163	1.28	4.38	148	1.65	2.17	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	613	2093	527	2.19	7.48	280	2.66	7.02	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	488	1664	419	1.82	6.22	268	2.56	6.20	CECOMAF MBP
-10 14	45 113	20 68	45 113	536	1828	461	2.21	7.54	243	2.35	6.59	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	140	478	120	1.06	3.62	132	1.55	1.57
-30	-22	237	808	204	1.39	4.75	170	1.80	2.68
-20	-4	373	1273	321	1.79	6.11	208	2.09	4.24
-10	14	557	1901	479	2.30	7.84	243	2.35	6.40
0	32	798	2722	686	2.96	10.11	269	2.57	9.28
7.2	45	1011	3450	869	3.59	12.24	282	2.68	11.89

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

-40	-40	122	416	105	0.98	3.36	124	1.47	1.51
-30	-22	206	702	177	1.20	4.08	172	1.82	2.57
-20	-4	325	1108	279	1.47	5.01	221	2.19	4.09
-10	14	488	1664	419	1.82	6.22	268	2.56	6.20
0	32	703	2398	604	2.29	7.82	307	2.88	9.06
7.2	45	895	3053	770	2.72	9.29	328	3.07	11.69