

Model

Designation	KLF5.6CNH	115-127V/60Hz 1~	Sales code:	106H3615
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	10,4cSt	Displacement	5,6cm ³ / 0,34cu.in
Oil quantity	170cm ³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1605cm ³ / 54,3fl.oz		
Weight	9,5kg / 20,9lbs		
Motor protection	external		
Winding resistance main	2Ω (at 25°C)		
Winding resistance aux	5,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with KLF5.6CNH

Conf. 1

Motor configuration	CSIR
Power supply (nominal)	115-127V/60Hz
Number of phases	1
Voltage range	95-140V
Approvals	UL, CCC
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with KLF5.6CNH

Conf. 1

Refrigerant	R290
Application	LBP+MBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with KLF5.6CNH

Conf. 1

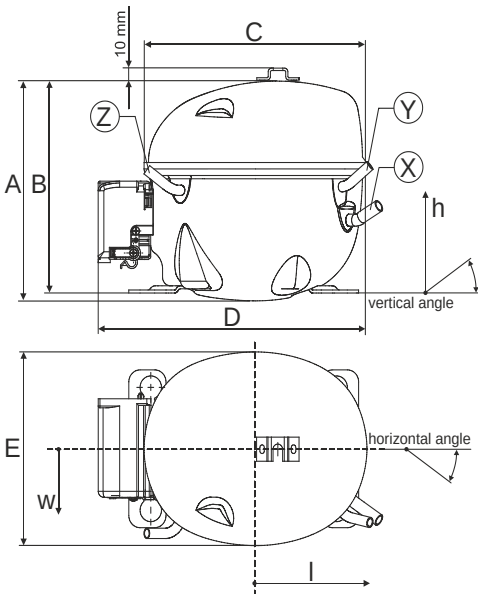
Starting device type	relay
Run capacitor	-/-
Start capacitor	240μF
LRA (locked rotor amps / 4s/ U(N))	31,1A
RLA (rated load amps / 1s/ U(N))	4,3A
Cut in current (U(N))	27,8A

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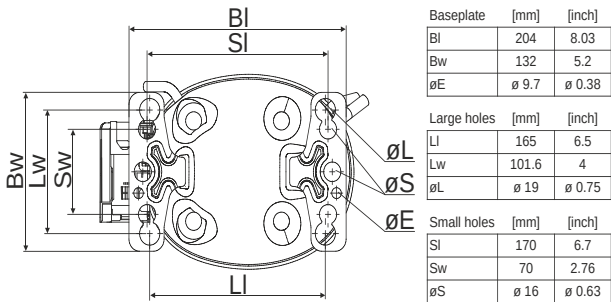
Compressor dimensions

Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	198mm / 7,8in
	D Length w. cover	238mm / 9,37in
	E Width	160mm / 6,3in

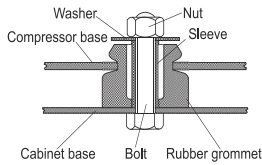
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59	117/107/66	-88/101/71
[in]	4,7/2,9/2,3	4,6/4,2/2,6	-3,5/4/2,8
Straight tube l. [mm]	14	14	14
[in]	0,5	0,5	0,5



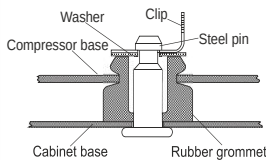
Compressor fixation



Bolt joint



Snap-on



Mounting accessories	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

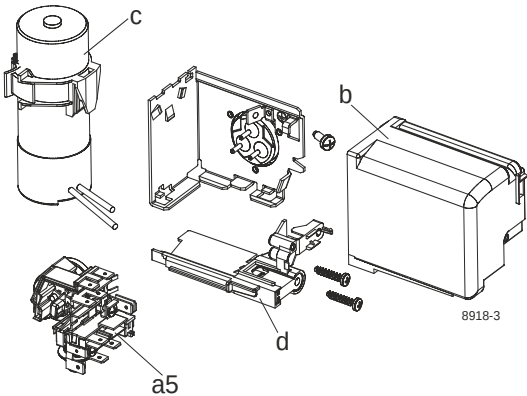
Application notes

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

Housing with dip-tray fixture (omega bracket).

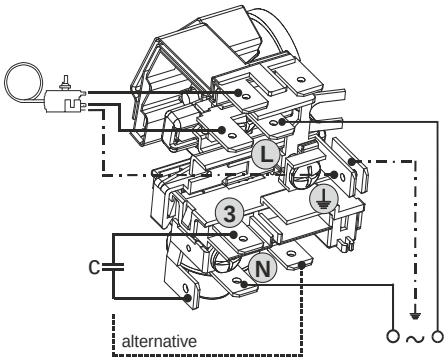
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	115-127V/60Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	95-140V				
Starting torque	HST				
Approvals	UL				
	CCC				

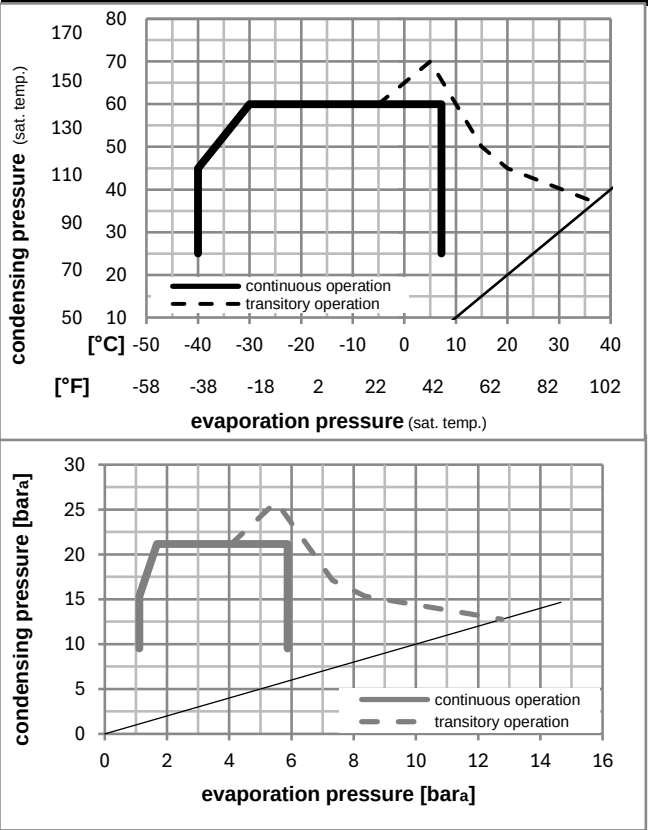


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



Components (incl. and pre. assembl.)		
a5	current relay (T1217/L6-S5)	117U7075
c	start capacitor (240μF)	117U5002
.	cable clamp	16058100
b	cover terminal board	10636401
.	screw uni en iso 4757	10641201
.	screw - uni6954	10636000

Alternative comp.

.	screw - uni6954	10636200
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Optimization + standard conditions			R290, 115V/60Hz, CSIR, fan 3m/s, UL, CCC		

Evaporating pressure (saturation temperature)															
Condensing pressure (saturation temperature)															
Return gas temp.															
Liquid temp.															
Cooling capacity															
COP															
EER															
Power consumption															
Current consumption															
Ref. mass flow															
pe		pc		RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]	-23	54	32	32		338,8	1157	291,6	1,61	5,49	1,38	210,8	2,78	3,43	ASHRAE LBP
[°F]	-10	130	90	90											
[°C]	-25	55	32	55		253,9	867	218,5	1,26	4,29	1,08	202,3	2,73	3,16	cecomaf LBP
[°F]	-13	131	90	131											
[°C]	-35	40	20	40		189,6	648	163,2	1,25	4,26	1,07	152,2	2,47	2,17	EN12900 LBP
[°F]	-31	104	68	104											
[°C]	-7	54	35	46		609,1	2080	524,2	2,11	7,20	1,81	289,1	3,28	6,95	ASHRAE MBP
[°F]	20	130	95	115											
[°C]	-10	55	32	55		483,5	1651	416,1	1,75	5,98	1,51	276,0	3,19	6,12	cecomaf MBP
[°F]	14	131	90	131											
[°C]	-10	45	20	45		537,8	1837	462,9	2,14	7,30	1,84	251,6	3,03	6,60	EN12900 MBP
[°F]	14	113	68	113											

Performance tables

R290, 115V/60Hz, CSIR, fan 3m/s, UL, CCC

	pe		Cooling capacity			COP		EER		P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]		[W]		[A]		[kg/h]	
[°C / °F]	-34	-30	187,4	640	161,3	1,19	4,07	1,03		157,1		2,49		2,10	
cond. pressure	-34	-30	187,4	640	161,3	1,19	4,07	1,03		157,1		2,49		2,10	
pc= 45/113	-23	-10	321,5	1098	276,7	1,59	5,44	1,37		202,0		2,72		3,63	
return gas temp.	-15	5	460,1	1571	396,0	1,96	6,71	1,69		234,3		2,91		5,23	
RGT= 32/90	-4	25	699,7	2390	602,2	2,60	8,87	2,23		269,5		3,15		8,07	
liquid temp	0	32	799,2	2729	687,8	2,87	9,80	2,47		278,5		3,21		9,27	
Tliq= 45/113	7,2	45	1006,7	3438	866,4	3,48	11,89	3,00		289,1		3,29		11,83	
[°C / °F]	-34	-30	160,9	549	138,5	1,04	3,57	0,90		154,1		2,48		1,99	
cond. pressure	-34	-30	160,9	549	138,5	1,04	3,57	0,90		154,1		2,48		1,99	
pc= 55/131	-23	-10	274,3	937	236,1	1,30	4,44	1,12		210,9		2,78		3,42	
return gas temp	-15	5	395,2	1350	340,1	1,56	5,34	1,35		252,7		3,04		4,97	
RGT= 32/90	-4	25	608,4	2078	523,6	2,02	6,89	1,74		301,4		3,37		7,76	
liquid temp	0	32	697,8	2383	600,6	2,21	7,56	1,90		315,4		3,48		8,96	
Tliq= 55/131	7,2	45	885,6	3024	762,1	2,64	9,02	2,27		335,3		3,63		11,54	