

Model

Designation	KLF4.0CNH	115-127V/60Hz 1~	Sales code:	106H3411
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	10,4cSt	Displacement	4cm ³ / 0,24cu.in
Oil quantity	170cm ³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1630cm ³ / 55,1fl.oz		
Weight	8,3kg / 18,3lbs		
Motor protection	external		
Winding resistance main	3,4Ω (at 25°C)		
Winding resistance aux	8Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with KLF4.0CNH

Conf. 1

Motorconfiguration	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 KLF4.0CNH

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 KLF4.0CNH

Conf. 1

Starting device type	relay
Run capacitor	-/-
Start capacitor	240μF
LRA (locked rotor amps / 4s/ U(N))	21,2A
RLA (rated load amps / 1s/ U(N))	2,7A
Cut in current (U(N))	20,5A

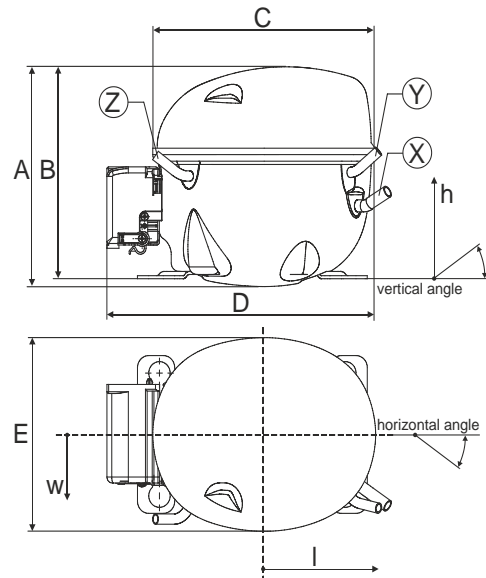
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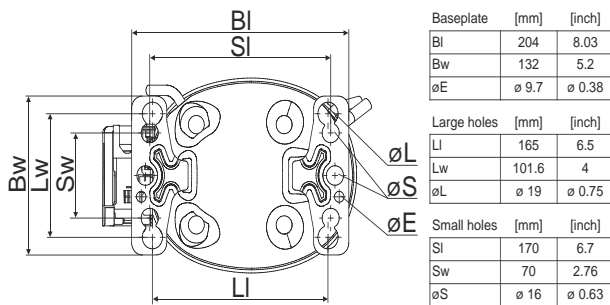
Compressor dimensions

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

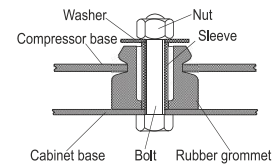
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	119/73/59	117/107/66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



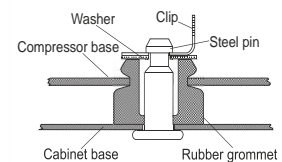
Compressor fixation



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

Operation possible until tilted up to 3 degrees

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

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Configuration

Motorconfiguration CSIR
 Power supply (nominal) 115-127V/60Hz 1~
 Refrigerant R290
 Application LBP+MBP
 Voltage range 95-140V
 Starting torque HST
 Approvals UL
 CCC

Electrical accessories / wiring diagram

CSIR



Ambient/ machine room temperatures minimum /maximum

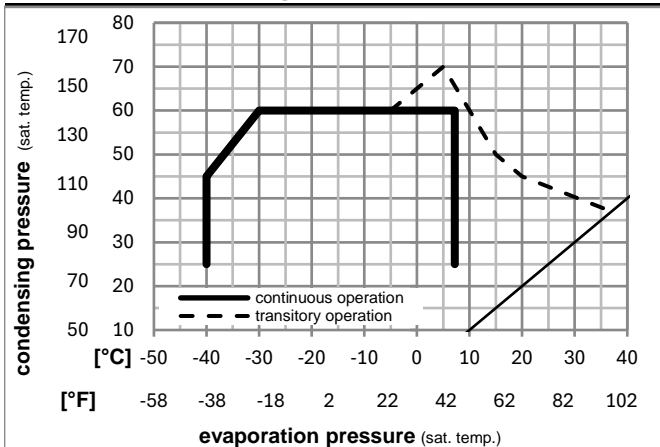
Ambient temperature range: 10 - 43°C / 50 - 110°F

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 (T1209/L6-S4)	117U7074
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

	pe	pc	RGT	Tliq	Cooling capacity		COP	EER		P1	I	Ref. mass flow	
	[°C]	[°C]	[°C]	[°C]	[W]	[Btu/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
Evaporating pressure (saturation temperature)	-23	54	32	32	228,0	779	1,49	5,08	1,28	153,2	1,92	2,31	ASHRAE LBP
Condensing pressure (saturation temperature)	-10	130	90	90									
Return gas temp.													
Liquid temp.													
	[°F]	[°F]	[°F]	[°F]									
	-25	55	32	55	169,4	579	1,14	3,89	0,98	148,7	1,89	2,11	cecomaf LBP
	-13	131	90	131									
	[°C]	[°C]	[°C]	[°C]									
	-35	40	20	40	127,2	434	1,05	3,58	0,90	121,3	1,73	1,45	EN12900 LBP
	-31	104	68	104									
	[°F]	[°F]	[°F]	[°F]									
	-7	54	35	46	418,6	1429	2,09	7,14	1,80	200,3	2,25	4,77	ASHRAE MBP
	20	130	95	115									
	[°C]	[°C]	[°C]	[°C]									
	-10	55	32	55	331,7	1133	1,72	5,88	1,48	192,8	2,20	4,20	cecomaf MBP
	14	131	90	131									
	[°F]	[°F]	[°F]	[°F]									
	-10	45	20	45	376,1	1284	2,14	7,30	1,84	175,9	2,07	4,62	EN12900 MBP
	14	113	68	113									
	[°C]	[°C]	[°C]	[°C]									
	[°F]	[°F]	[°F]	[°F]									

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	122,7	419	105,6	0,99	3,39	0,86	123,5	1,75	1,38
cond. pressure	-34	-30	122,7	419	105,6	0,99	3,39	0,86	123,5	1,75	1,38
pc= 45/113	-23	-10	222,9	761	191,8	1,52	5,20	1,31	146,3	1,88	2,52
return gas temp.	-15	5	320,7	1095	276,0	1,94	6,63	1,67	165,2	2,00	3,65
RGT= 32/90	-4	25	492,6	1682	423,9	2,63	8,98	2,26	187,3	2,15	5,68
liquid temp	0	32	566,1	1933	487,2	2,93	10,02	2,52	193,0	2,20	6,57
Tliq= 45/113	7,2	45	724,3	2473	623,3	3,63	12,41	3,13	199,4	2,24	8,51
[°C / °F]	-34	-30	92,9	317	80,0	0,76	2,59	0,65	122,6	1,74	1,15
cond. pressure	-34	-30	92,9	317	80,0	0,76	2,59	0,65	122,6	1,74	1,15
pc= 55/131	-23	-10	184,6	630	158,9	1,20	4,10	1,03	153,7	1,93	2,30
return gas temp	-15	5	270,4	924	232,7	1,51	5,17	1,30	178,6	2,09	3,40
RGT= 32/90	-4	25	418,8	1430	360,4	2,01	6,87	1,73	208,3	2,31	5,34
liquid temp	0	32	482,1	1646	414,9	2,23	7,60	1,92	216,6	2,37	6,19
Tliq= 55/131	7,2	45	618,4	2112	532,2	2,72	9,27	2,34	227,7	2,46	8,06