

Model

Designation	KLF7.7CNHS	115-127V/60Hz 1~	Sales code:	106H3813
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	19,2cSt	Displacement	7,7cm ³ / 0,47cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1575cm ³ / 53,3fl.oz		
Weight	9,7kg / 21,4lbs		
Motor protection	external		
Winding resistance main	1,4Ω (at 25°C)		
Winding resistance aux	5,9Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		
Additional note	Very good robustness against liquid intake. Ice-cube maker optimization - indirect suction intake.		



General - Configurations with KLF7.7CNHS

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

Applications with KLF7.7CNHS

	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 KLF7.7CNHS

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	240μF
LRA (locked rotor amps / 4s/ U(N))	35,6A
RLA (rated load amps / 1s/ U(N))	4,9A
Cut in current (U(N))	

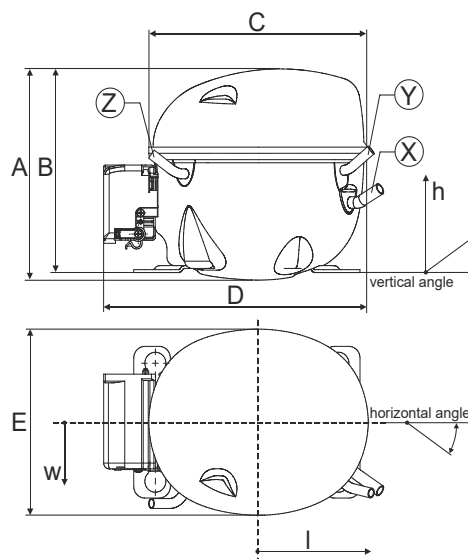
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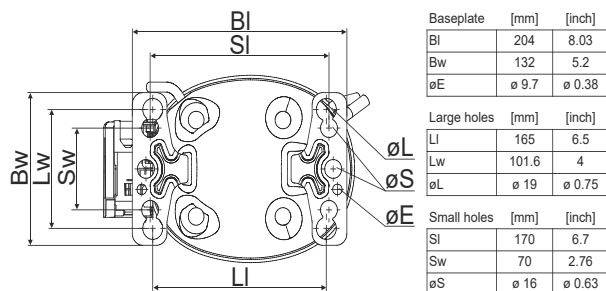
Compressor dimensions

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

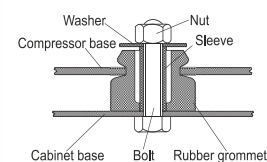
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	119/73/59	117/107/66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



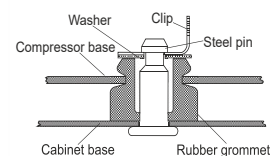
Compressor fixation



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

Compressor comes on a wooden pallet

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Configuration

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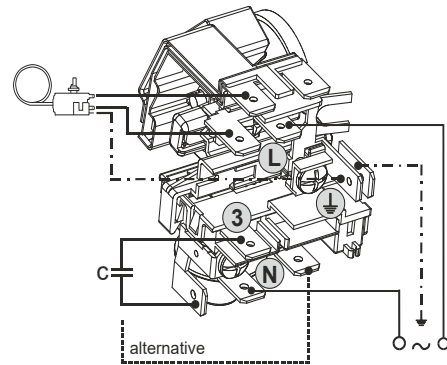
Electrical accessories / wiring diagram

CSIR

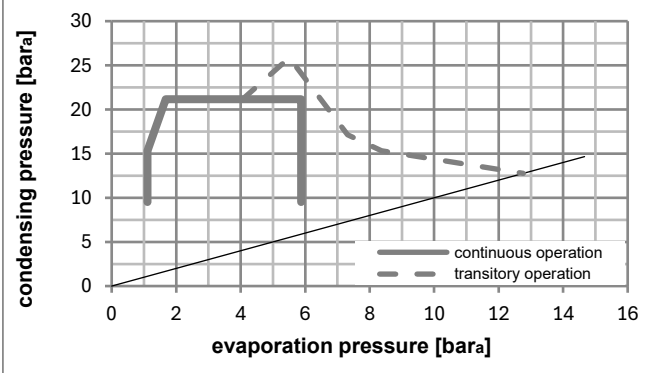
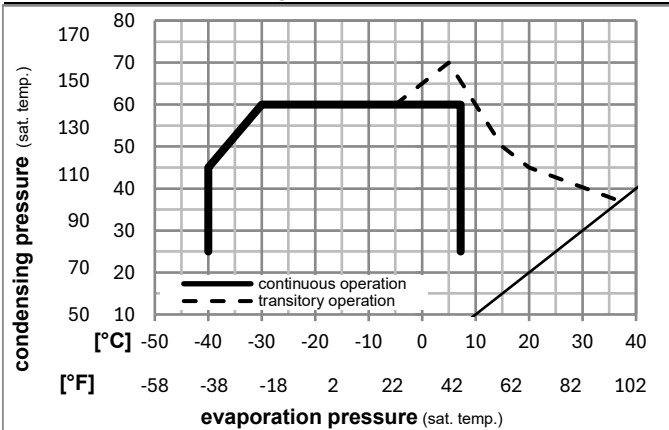


Ambient/ machine room temperatures minimum /maximum

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 (already pre-assembled)

a5	current relay (T1141/L6-S6)	117U7078
c	start capacitor (240µF)	117U5002
b, d	cover + clamp + screws(5VA) in bag	103N1060

Alternative comp. (already pre-assembled)

b, d	100x cover + clamp + screws(5VA)	103N2060
b, d	cover + clamp + screws(5VA-compl.)	103N0600

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Optimization + standard conditions

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

	pe	pc	RGT	Tliq	Cooling capacity	COP	EER	P1	I	Ref. mass flow	
	[°C]	[°C]	[°C]	[°C]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	[°F]	[°F]	[°F]	[°F]	[Btu/h]	[kcal/h]	[kcal/Wh]	[W]	[A]	[kg/h]	
ASHRAE LBP	-23	54	32	32	442,5	1,49	5,10	296,6	3,46	4,48	
cecomaf LBP	-25	55	32	55	333,5	1,16	3,98	286,5	3,39	4,15	
EN12900 LBP	-35	40	20	40	256,7	1,24	4,22	207,7	2,89	2,93	
ASHRAE MBP	-7	54	35	46	785,5	1,95	6,64	403,8	4,26	8,96	
cecomaf MBP	-10	55	32	55	624,0	1,61	5,51	386,5	4,13	7,89	
EN12900 MBP	-10	45	20	45	719,5	1,97	6,74	364,5	3,96	8,83	

Performance tables

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

	pe	Cooling capacity			COP	EER	P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-40	-40	174,5	596	1,00	3,43	173,9	2,69	1,95
cond. pressure	-34	-30	246,5	842	1,16	3,97	212,0	2,91	2,76
pc= 45/113	-23	-10	432,0	1475	1,51	5,15	286,4	3,39	4,88
return gas temp.	-15	5	616,3	2105	1,83	6,24	337,4	3,76	7,01
RGT= 32/90	-4	25	936,7	3199	2,38	8,14	393,1	4,18	10,80
liquid temp	0	32	1071,9	3661	2,63	8,97	408,1	4,30	12,43
Tliq= 45/113	7,2	45	1358,9	4641	3,17	10,84	428,2	4,46	15,97
[°C / °F]	-40	-40	154,6	528	0,86	2,94	179,7	2,72	1,91
cond. pressure	-34	-30	210,7	719	0,96	3,29	219,0	2,95	2,61
pc= 55/131	-23	-10	359,5	1228	1,21	4,12	298,3	3,47	4,48
return gas temp	-15	5	512,0	1749	1,44	4,93	355,0	3,89	6,44
RGT= 32/90	-4	25	784,5	2679	1,86	6,36	421,2	4,40	10,01
liquid temp	0	32	901,5	3079	2,05	6,99	440,7	4,56	11,58
Tliq= 55/131	7,2	45	1152,3	3935	2,45	8,37	470,2	4,80	15,01