

## Model

Designation	<b>KLF6.6CNH</b>	115-127V/60Hz 1~	Sales code:	<b>106H3710</b>
-------------	------------------	------------------	-------------	-----------------

## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R290</b>
Oil viscosity	10,4cSt	Displacement	6,6cm <sup>3</sup> / 0,4cu.in
Oil quantity	170cm <sup>3</sup> / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1580cm <sup>3</sup> / 53,4fl.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 KLF6.6CNH

### 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 KLF6.6CNH

### 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 KLF6.6CNH

### 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

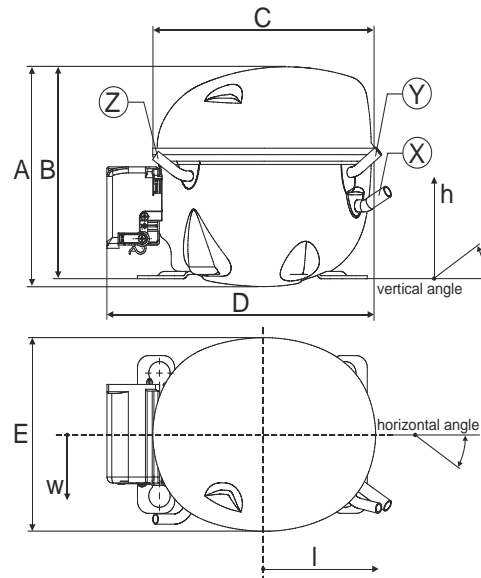
## Model

Designation	<b>KLF6.6CNH</b>	115-127V/60Hz 1~	Sales code:	<b>106H3710</b>
-------------	------------------	------------------	-------------	-----------------

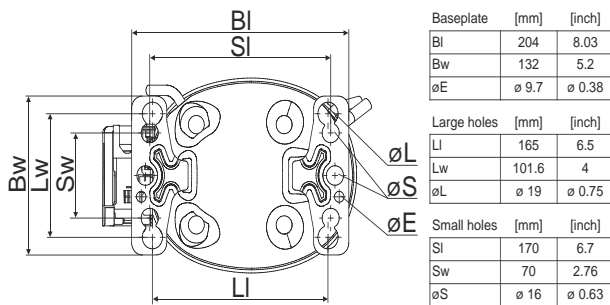
## Compressor dimensions

<b>Housing</b>	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

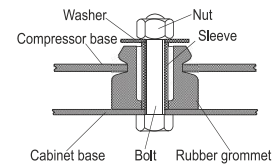
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	119/73/59	117/107/66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



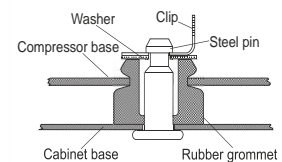
## Compressor fixation



### 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

## Model

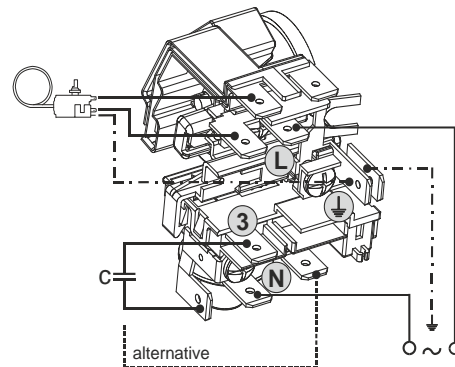
Designation **KLF6.6CNH** **115-127V/60Hz** Conf. 1 Sales code: **106H3710**

## 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



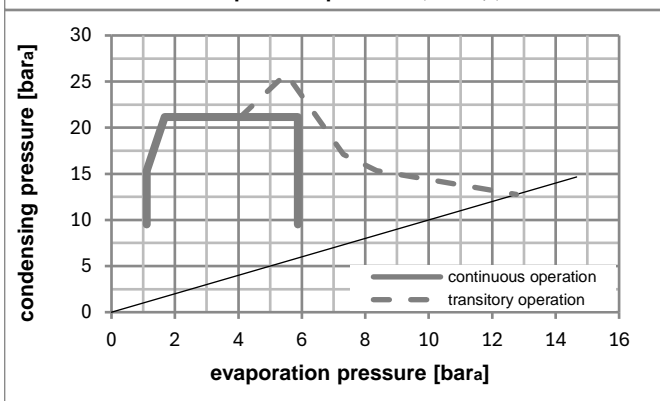
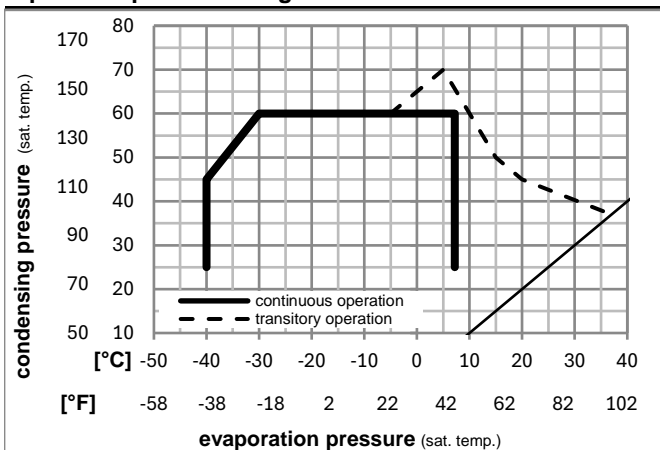
## Ambient/ machine room temperatures minimum /maximum

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 (T1141/L6-S6)	117U7076
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
---	-----------------	----------

## Model

Designation **KLF6.6CNH** **115-127V/60Hz** Conf. 1 Sales code: **106H3710**

## 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]	[W]	[A]	[kg/h]			P1	I	m				
[°C]	[°F]																						
-23	-10	54	130	32	90	396,9	1355	341,6	1,61	5,51	1,39	246,0	3,18	4,02								ASHRAE LBP	
54	130	32	90	32	90	396,9	1355	341,6	1,61	5,51	1,39	246,0	3,18	4,02								ASHRAE LBP	
-25	-13	55	131	32	90	297,2	1015	255,8	1,26	4,30	1,08	236,1	3,13	3,70								cecomaf LBP	
55	131	32	90	32	90	297,2	1015	255,8	1,26	4,30	1,08	236,1	3,13	3,70								cecomaf LBP	
-35	-31	40	104	20	68	224,4	766	193,1	1,20	4,11	1,04	186,5	2,89	2,56								EN12900 LBP	
40	104	20	68	20	68	224,4	766	193,1	1,20	4,11	1,04	186,5	2,89	2,56								EN12900 LBP	
-7	20	54	130	35	95	717,6	2451	617,6	2,08	7,09	1,79	345,8	3,84	8,19								ASHRAE MBP	
54	130	35	95	35	95	717,6	2451	617,6	2,08	7,09	1,79	345,8	3,84	8,19								ASHRAE MBP	
-10	14	55	131	32	90	567,9	1940	488,8	1,73	5,90	1,49	328,5	3,72	7,18								cecomaf MBP	
55	131	32	90	32	90	567,9	1940	488,8	1,73	5,90	1,49	328,5	3,72	7,18								cecomaf MBP	
-10	14	45	113	20	68	639,3	2183	550,2	2,06	7,02	1,77	311,0	3,60	7,85								EN12900 MBP	
45	113	20	68	20	68	639,3	2183	550,2	2,06	7,02	1,77	311,0	3,60	7,85								EN12900 MBP	

## 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	220,5	753	189,8	1,17	4,00	1,01	188,3	2,89	2,47
cond. pressure	-34	-30	220,5	753	189,8	1,17	4,00	1,01	188,3	2,89	2,47
pc= 45/113	-23	-10	381,3	1302	328,2	1,56	5,33	1,34	244,5	3,18	4,31
return gas temp.	-15	5	546,0	1865	469,9	1,90	6,49	1,64	287,3	3,44	6,21
RGT= 32/90	-4	25	834,7	2851	718,3	2,48	8,48	2,14	336,2	3,77	9,62
liquid temp	0	32	956,4	3266	823,1	2,74	9,35	2,36	349,3	3,87	11,09
Tliq= 45/113	7,2	45	1213,8	4145	1044,6	3,32	11,34	2,86	365,7	3,99	14,26
[°C / °F]	-34	-30	186,9	638	160,9	1,04	3,54	0,89	180,6	2,84	2,31
cond. pressure	-34	-30	186,9	638	160,9	1,04	3,54	0,89	180,6	2,84	2,31
pc= 55/131	-23	-10	321,1	1097	276,3	1,30	4,45	1,12	246,4	3,19	4,00
return gas temp	-15	5	463,1	1582	398,6	1,55	5,30	1,34	298,4	3,52	5,82
RGT= 32/90	-4	25	717,9	2452	617,9	1,98	6,77	1,71	362,3	3,97	9,16
liquid temp	0	32	826,9	2824	711,6	2,17	7,40	1,87	381,3	4,11	10,62
Tliq= 55/131	7,2	45	1059,1	3617	911,5	2,58	8,83	2,22	409,7	4,33	13,80