

## Model

Designation	<b>KLF5.6CNT</b>	200-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	<b>106H2612</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R290</b>
Oil viscosity	19,2cST	Displacement	5,6cm <sup>3</sup> / 0,34cu.in
Oil quantity	162cm <sup>3</sup> / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1605cm <sup>3</sup> / 54,3fl.oz		
Weight	9,4kg / 20,7lbs		
Motor protection	external		
Winding resistance main	10,7Ω (at 25°C)		
Winding resistance aux	17Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



## General - Configurations with KLF5.6CNT

	<b>Conf. 1</b>	<b>Conf. 2</b>
Motorconfiguration	CSIR	CSIR
Power supply (nominal)	200-240V/50Hz	208-230V/60Hz
Number of phases	1	1
Voltage range	187-254V	198-253V
Approvals	UL, CCC, CB	UL, CCC, CB
Starting torque	HST	HST
Note	Electrical equipment is included and pre-assembled to compressor.	

## Applications with KLF5.6CNT

	<b>Conf. 1</b>	<b>Conf. 2</b>
Refrigerant	R290	R290
Application	LBP+MBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	-/-

## Electrical data - Configurations with KLF5.6CNT

	<b>Conf. 1</b>	<b>Conf. 2</b>
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	80μF	80μF
LRA (locked rotor amps / 4s)	10,3A	10,3A
RLA (rated load amps / 1s)	1,7A	1,7A
Cut in current	10,3A	10,3A

## Model

Designation

**KLF5.6CNT**

200-240V/50Hz 1~ 208-230V/60Hz 1~

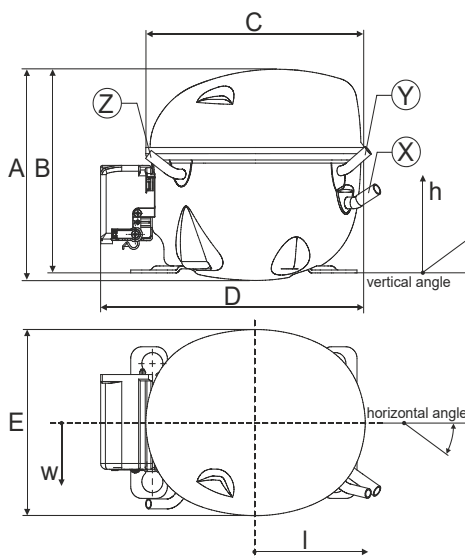
Sales code:

**106H2612**

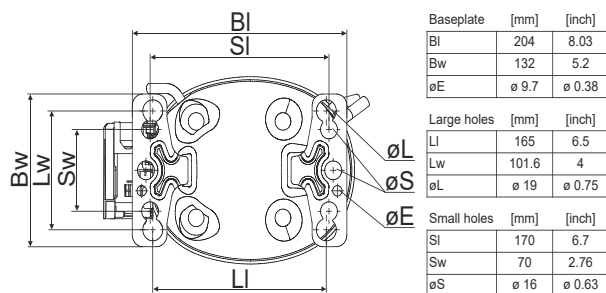
## Compressor dimensions

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 6,11-6,29	øi 6,11-6,29
	(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	120/72/57	112/106/81	-97/94/72
	[in]	4,7/2,8/2,2	4,4/4,2/3,2	-3,8/3,7/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5



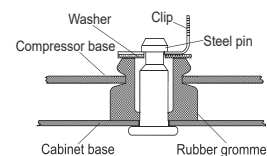
## Compressor fixation



### 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

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

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

## Model

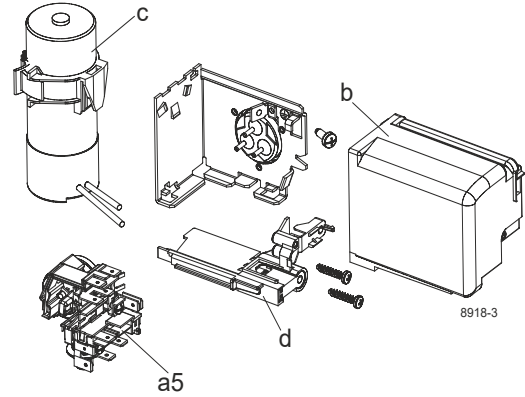
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## Configuration

Motorconfiguration	CSIR
Power supply (nominal)	200-240V/50Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	187-254V
Starting torque	HST
Approvals	UL
	CCC
	CB

## Electrical accessories / wiring diagram

CSIR

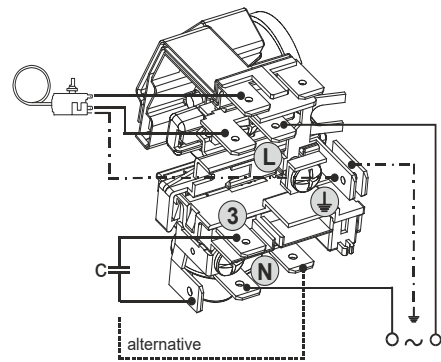


## Ambient/ machine room temperatures minimum /maximum

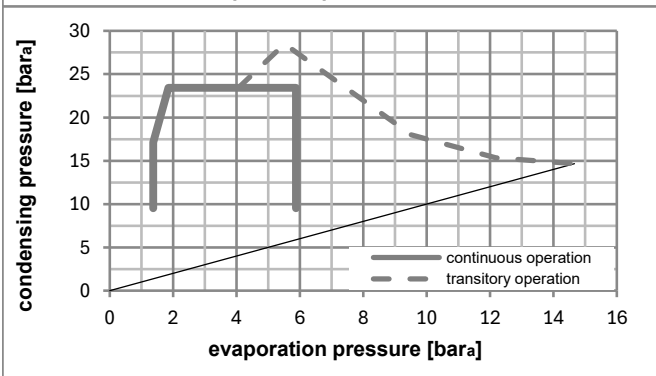
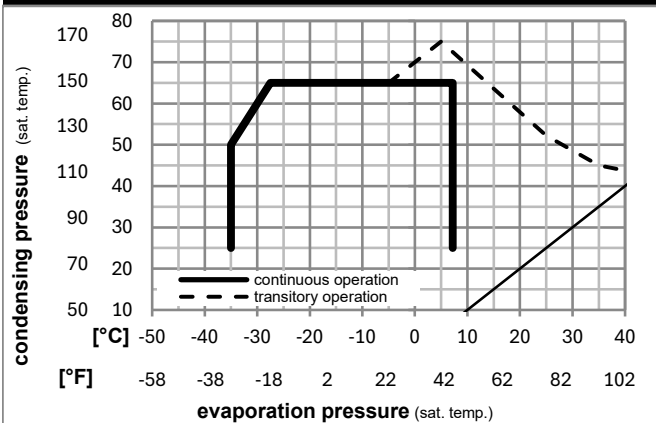
Ambient temperature range: 10 - 43°C / 50 - 110°F

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 (1218/L6 - S7)	117U7077
c	start capacitor (80µF, 6.3mm)	117U5003
b	cover terminal board	10636401
.	screw uni en iso 4757	10641201

### Alternative comp. (already pre-assembled)

.	cable clamp (screws not included)	16058100
.	screw - uni6954	10636000
.	screw - uni6954	10636200

### Model

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### Optimization + standard conditions

R290, 220V/50Hz, CSIR, fan 3m/s, UL, CCC, CB

	Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER	P1	Power consumption		ASHRAE LBP	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]				I	m		
	[°C]	[°F]	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
	-23	54	32	32	270,9	925	233,2	1,54	5,26	1,33	175,9	1,22	2,74	ASHRAE LBP
	-10	130	90	90										
	-25	55	32	55	201,7	689	173,6	1,19	4,06	1,02	169,6	1,20	2,51	cecomaf LBP
	-13	131	90	131										
	-35	40	20	40	147,6	504	127,0	1,20	4,11	1,04	122,5	1,07	1,69	EN12900 LBP
	-31	104	68	104										
	-7	54	35	46	489,9	1673	421,6	2,06	7,03	1,77	238,1	1,43	5,59	ASHRAE MBP
	20	130	95	115										
	-10	55	32	55	388,3	1326	334,2	1,71	5,83	1,47	227,4	1,39	4,91	cecomaf MBP
	14	131	90	131										
	-10	45	20	45	430,8	1471	370,7	2,08	7,10	1,79	207,2	1,32	5,29	EN12900 MBP
	14	113	68	113										

### Performance tables

R290, 220V/50Hz, CSIR, fan 3m/s, UL, CCC, CB

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]		[Btu/Wh]	[kcal/Wh]			
[°C / °F]	-35	-31	146,9	502	126,4	1,13	3,87	0,97	129,7	1,09	1,65
cond. pressure	-25	-13	238,6	815	205,4	1,48	5,06	1,27	161,1	1,17	2,69
pc= 45/113	-15	5	367,1	1254	316,0	1,91	6,51	1,64	192,6	1,27	4,18
return gas temp.	-10	14	448,4	1532	385,9	2,16	7,39	1,86	207,2	1,32	5,13
RGT= 32/90	-5	23	542,9	1854	467,2	2,46	8,42	2,12	220,3	1,36	6,25
liquid temp	0	32	651,7	2226	560,9	2,82	9,61	2,42	231,5	1,40	7,56
Tliq= 45/113	7,2	45	836,4	2856	719,8	3,44	11,74	2,96	243,3	1,45	9,83
[°C / °F]	-35	-31	112,9	386	97,2	0,85	2,92	0,74	132,1	1,09	1,40
cond. pressure	-25	-13	201,7	689	173,6	1,19	4,06	1,02	169,6	1,20	2,51
pc= 55/131	-15	5	317,2	1083	273,0	1,52	5,19	1,31	208,6	1,32	3,99
return gas temp	-10	14	388,3	1326	334,2	1,71	5,83	1,47	227,4	1,39	4,91
RGT= 32/90	-5	23	470,1	1605	404,5	1,92	6,55	1,65	245,1	1,45	5,99
liquid temp	0	32	563,7	1925	485,1	2,16	7,37	1,86	261,1	1,51	7,24
Tliq= 55/131	7,2	45	722,2	2466	621,5	2,57	8,79	2,22	280,5	1,59	9,41

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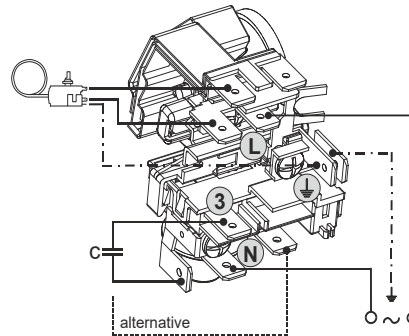
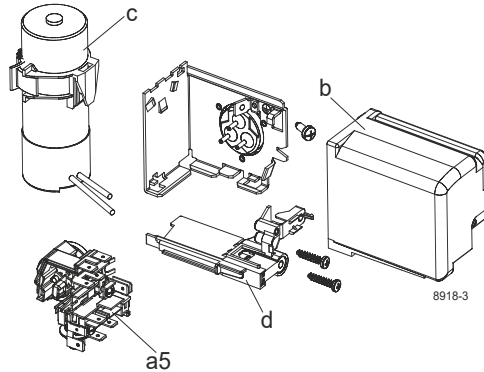
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## Configuration

Motorconfiguration	CSIR
Power supply (nominal)	208-230V/60Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	198-253V
Starting torque	HST
Approvals	UL
	CCC
	CB

## Electrical accessories / wiring diagram

CSIR



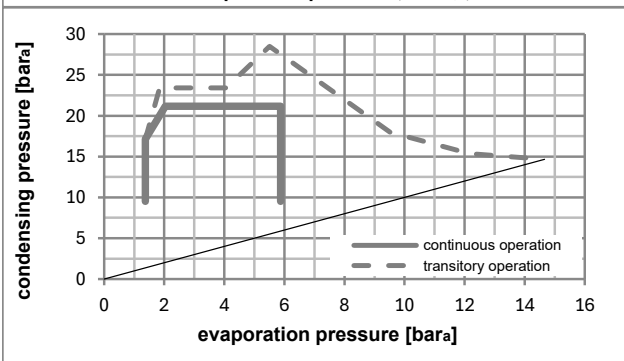
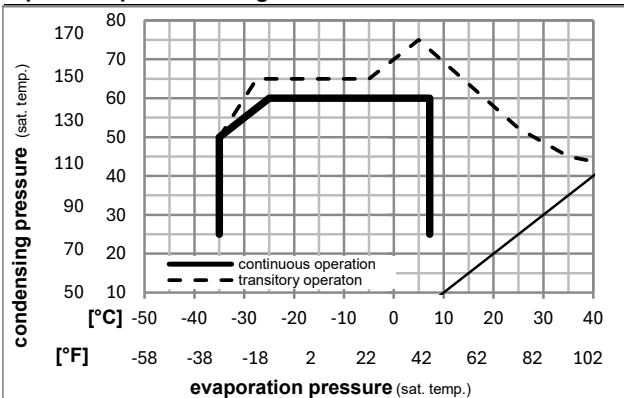
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### Optimization + standard conditions

R290, 230V/60Hz, CSIR, fan 3m/s, UL, CCC, CB

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.		Liquid temp.		Cooling capacity			COP	EER	Power consumption			ASHRAE LBP
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	[W]	[A]	[kg/h]	cecomaf LBP			
[°C]	[°F]	[°C]	[°C]	[°C]	[°C]																
-23	-10	54	32	32	331,7	1133	285,5	1,58	5,39	1,36	210,2	1,34	3,36								
-25	-13	55	32	55	248,5	849	213,9	1,23	4,21	1,06	201,8	1,32	3,09						cecomaf LBP		
-35	-31	40	20	40	188,7	645	162,4	1,21	4,13	1,04	156,2	1,19	2,16						EN12900 LBP		
-7	20	54	35	46	604,1	2063	519,9	2,07	7,06	1,78	292,4	1,62	6,89						ASHRAE MBP		
-10	14	55	32	55	478,0	1632	411,3	1,72	5,87	1,48	278,0	1,57	6,05						cecomaf MBP		
-10	14	45	20	45	538,2	1838	463,2	2,08	7,11	1,79	258,5	1,50	6,61						EN12900 MBP		

### Performance tables

R290, 230V/60Hz, CSIR, fan 3m/s, UL, CCC, CB

	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]	-35	-31	180,4	616	155,3	1,14	3,90	0,98	157,8	1,20	2,02	
cond. pressure	-25	-13	295,4	1009	254,3	1,49	5,09	1,28	198,3	1,31	3,33	
pc= 45/113	-15	5	459,3	1569	395,3	1,92	6,55	1,65	239,6	1,44	5,23	
return gas temp.	-10	14	560,3	1914	482,2	2,17	7,40	1,87	258,5	1,50	6,41	
RGT= 32/90	-5	23	674,4	2303	580,4	2,45	8,37	2,11	275,1	1,56	7,76	
liquid temp	0	32	801,9	2739	690,1	2,78	9,49	2,39	288,6	1,60	9,30	
Tliq= 45/113	7,2	45	1009,6	3448	868,9	3,36	11,46	2,89	300,8	1,65	11,86	
[°C / °F]	-35	-31	156,1	533	134,3	1,02	3,47	0,87	153,6	1,19	1,93	
cond. pressure	-25	-13	248,5	849	213,9	1,23	4,21	1,06	201,8	1,32	3,09	
pc= 55/131	-15	5	389,0	1328	334,8	1,54	5,25	1,32	253,2	1,48	4,89	
return gas temp	-10	14	478,0	1632	411,3	1,72	5,87	1,48	278,0	1,57	6,05	
RGT= 32/90	-5	23	579,8	1980	499,0	1,93	6,58	1,66	301,2	1,65	7,39	
liquid temp	0	32	694,9	2373	598,0	2,16	7,37	1,86	321,8	1,73	8,93	
Tliq= 55/131	7,2	45	884,3	3020	761,1	2,56	8,74	2,20	345,4	1,82	11,52	