

Model

Designation	KLF4.8GNH	115-127V/60Hz 1~	Sales code:	106H3501
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	10,4cSt	Displacement	4,8cm ³ / 0,29cu.in
Oil quantity	170cm ³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1615cm ³ / 54,6fl.oz		
Weight	9,4kg / 20,7lbs		
Motor protection	external		
Winding resistance main	2Ω (at 25°C)		
Winding resistance aux	8,5Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with KLF4.8GNH

	Conf. 1	Conf. 2
Motorconfiguration	CSIR	RSCR
Power supply (nominal)	115-127V/60Hz	115-127V/60Hz
Number of phases	1	1
Voltage range	103-135V	103-135V
Approvals	UL	UL
Starting torque	HST	LST
Note	- / -	

Applications with KLF4.8GNH

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

Electrical data - Configurations with KLF4.8GNH

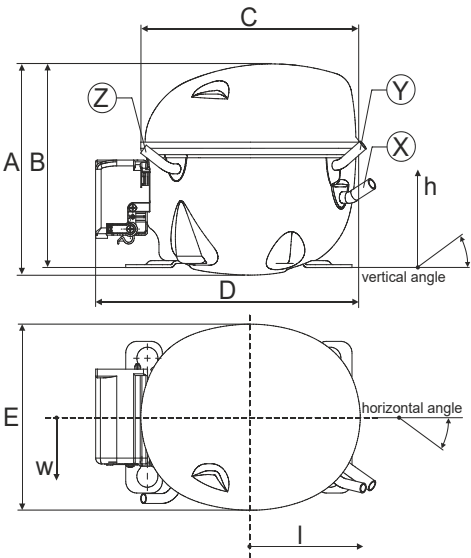
	Conf. 1	Conf. 2
Starting device type	relay	PTC
Run capacitor	-/-	15μF
Start capacitor	240μF	-/-
LRA (locked rotor amps / 4s/ U(N))	29,8A	29,8A
RLA (rated load amps / 1s/ U(N))	4,3A	4,3A
Cut in current (U(N))	27,5A	30,1A

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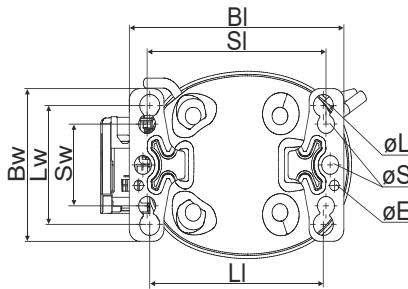
Compressor dimensions

Housing	A Height	160mm / 6,3in
	B Height	175mm / 6,89in
	C Length shell	182mm / 7,17in
	D Length w. cover	198mm / 7,8in
	E Width	240mm / 9,45in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6,51-6,69	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,26-0,26	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]	122/74/61	117/107/66	-88/101/71
[in]	4,8/2,9/2,4	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

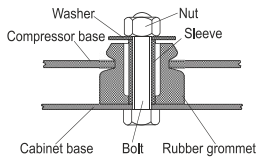


Compressor fixation

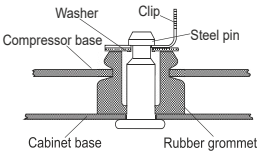


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63

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

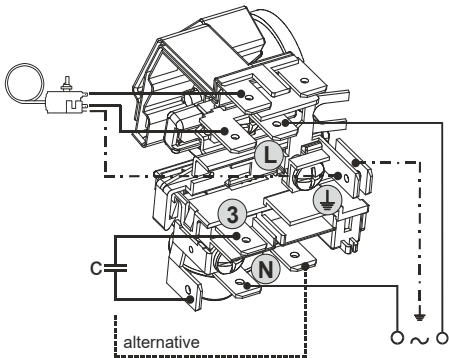
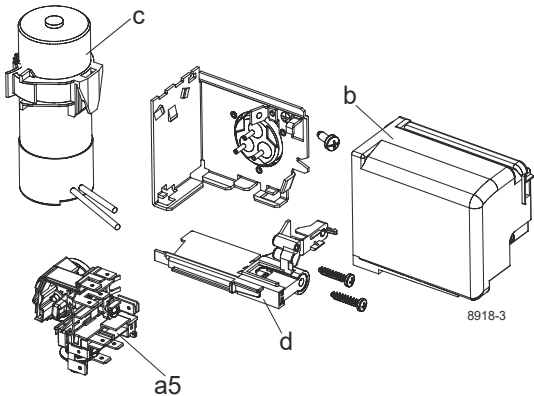
Provision for PE Grounding is located at the PE Stamp on the compressor

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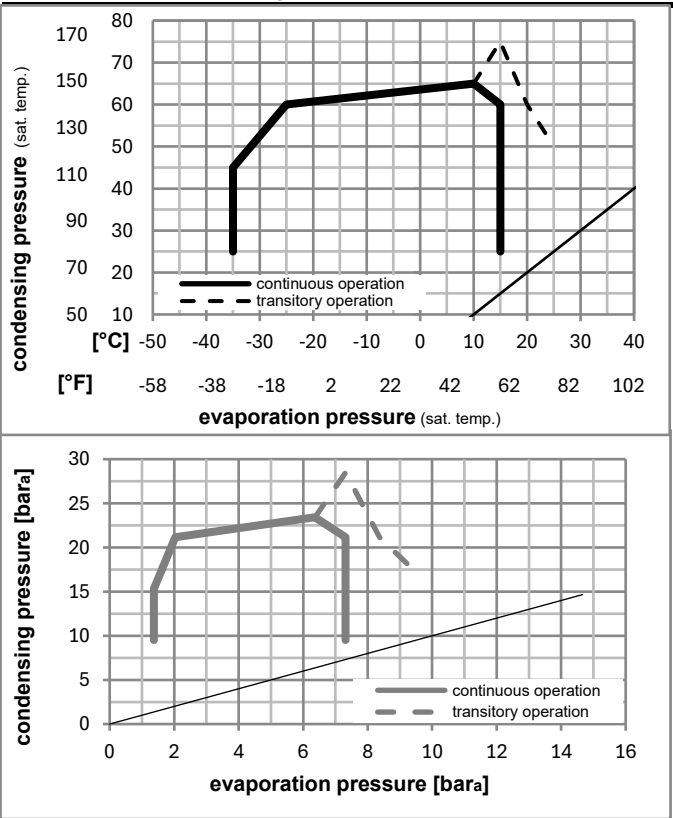
Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	CSIR	CSIR		
Power supply (nominal)	115-127V/60Hz 1~			
Refrigerant	R290			
Application	LBP+MBP+HBP			
Voltage range	103-135V			
Starting torque	HST			
Approvals	UL			

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

a5	current relay (T1217/L6-S5)	117U7072
c	start capacitor (240µF)	117U5005
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative components

b, d	100x cover + clamp + screws(5VA)	103N2060
b, d	cover + clamp + screws(5VA) in bag	103N1060

Model

Designation **KLF4.8GNH** **115-127V/60Hz** Conf. 1 Sales code: **106H3501**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)										Power consumption				
Condensing pressure (saturation temperature)										Current consumption				
Return gas temp.										Ref. mass flow				
Liquid temp.														
Cooling capacity														
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	COP	EER		P1	I	m	
[°C]	-23	54	32	32										
[°F]	-10	130	90	90	282,1	963	242,7	1,60	5,45	1,37	176,8	2,19	2,86	ASHRAE LBP
[°C]	-7	54	35	46										
[°F]	20	130	95	115	506,5	1730	435,9	2,12	7,25	1,83	238,7	2,52	5,78	ASHRAE MBP
[°C]	7,2	54	35	46										
[°F]	45	130	95	115	821,5	2806	707,0	2,76	9,42	2,37	297,9	2,90	9,58	ASHRAE HBP
[°C]	-35	40	20	40										
[°F]	-31	104	68	104	153,7	525	132,2	1,17	4,01	1,01	130,9	2,02	1,76	EN12900 LBP
[°C]	-10	45	20	45										
[°F]	14	113	68	113	443,7	1515	381,8	2,10	7,19	1,81	210,8	2,37	5,45	EN12900 MBP
[°C]	5	50	20	50										
[°F]	41	122	68	122	700,0	2391	602,4	2,52	8,60	2,17	278,0	2,77	9,32	EN12900 HBP

Performance tables

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

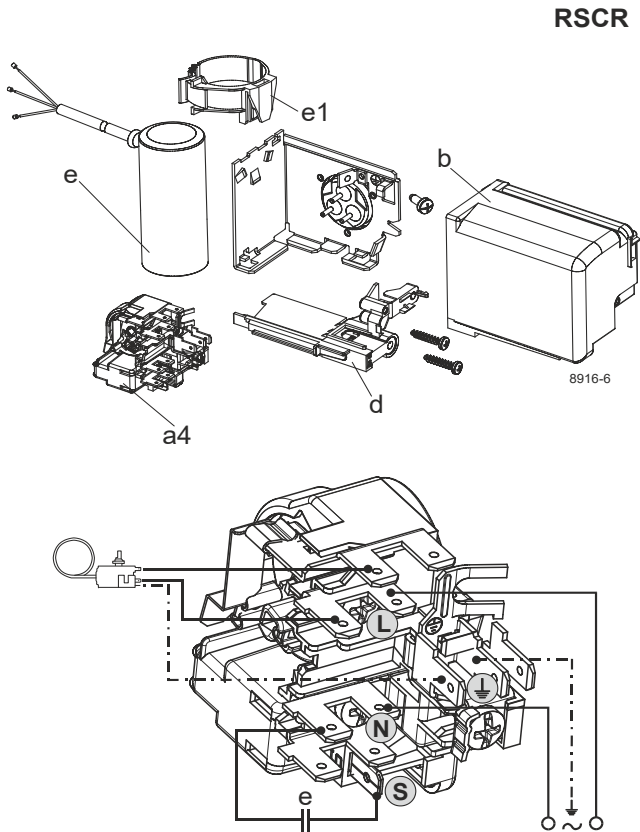
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-23	-10	267,4	913	230,2	1,61	5,50	1,39	166,1	2,14	3,02
cond. pressure	-23	-10	267,4	913	230,2	1,61	5,50	1,39	166,1	2,14	3,02
pc= 45/113	-15	5	380,6	1300	327,6	1,97	6,73	1,70	193,2	2,27	4,33
return gas temp.	-9	15	471,6	1611	405,9	2,22	7,57	1,91	212,8	2,38	5,40
RGT= 32/90	0	32	661,7	2260	569,4	2,68	9,15	2,31	246,9	2,58	7,67
liquid temp	4,4	40	769,0	2626	661,8	2,93	10,00	2,52	262,6	2,67	8,99
Tliq= 45/113	15	59	1077,8	3681	927,6	3,63	12,40	3,13	296,7	2,89	12,88
[°C / °F]	-23	-10	228,3	780	196,5	1,29	4,40	1,11	177,4	2,19	2,85
cond. pressure	-23	-10	228,3	780	196,5	1,29	4,40	1,11	177,4	2,19	2,85
pc= 55/131	-15	5	330,9	1130	284,7	1,60	5,48	1,38	206,2	2,34	4,16
return gas temp	-9	15	411,9	1407	354,5	1,81	6,17	1,55	228,0	2,46	5,21
RGT= 32/90	0	32	579,8	1980	499,0	2,16	7,39	1,86	267,9	2,70	7,45
liquid temp	4,4	40	674,5	2303	580,5	2,35	8,02	2,02	287,1	2,83	8,74
Tliq= 55/131	15	59	947,4	3236	815,3	2,85	9,74	2,45	332,1	3,13	12,58

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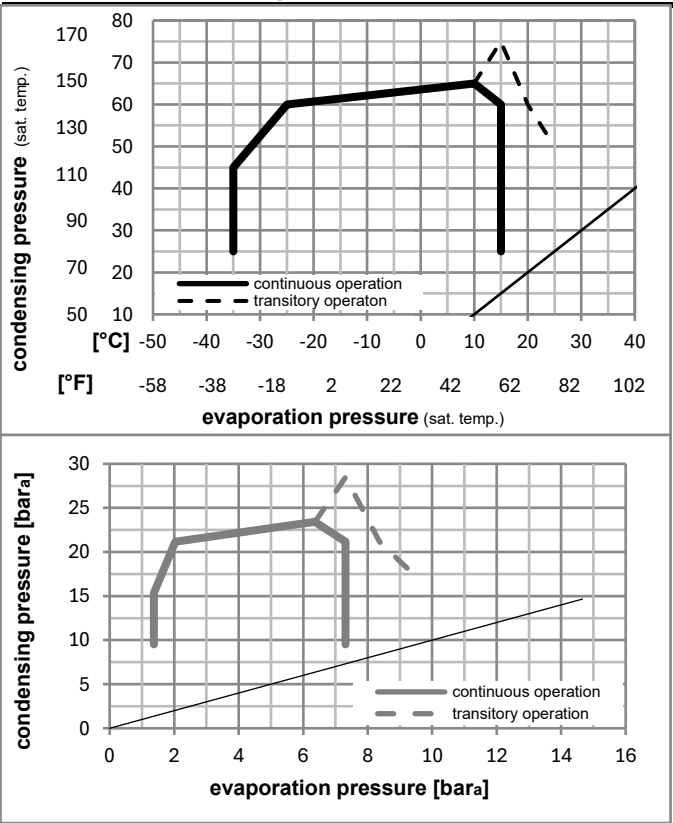
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Motorconfiguration	RSCR			
Power supply (nominal)	115-127V/60Hz 1~			
Refrigerant	R290			
Application	LBP+MBP+HBP			
Voltage range	103-135V			
Starting torque	LST			
Approvals	UL			

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		
a4	DLS5 (PTC,6.3mm, T1217/L6 - S5)	103N0212
e	run capacitor (15μF, 6,3mm)	117-7153
b, d	cover + clamp + screws(5VA-compl.)	103N0600
e1	retaining clamp	103N0535

Alternative components

b, d	100x cover + clamp + screws(5VA)	103N2060
b, d	cover + clamp + screws(5VA) in bag	103N1060

Model

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Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
											Current consumption			
											Ref. mass flow			