

Model

Designation	KLE4.8GFHX	115-127V/60Hz 1~	Sales code:	106G6513
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	4,8cm ³ / 0,29cu.in
Oil quantity	200cm ³ / 6,8fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	300g / 10,6oz		
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		
Additional note	Good robustness against liquid intake. Ice-cube maker optimization - indirect suction intake.		



General - Configurations with KLE4.8GFHX

Conf. 1

Motor configuration	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 KLE4.8GFHX

Conf. 1

Refrigerant	R134a
Application	LBP+MBP+HBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with KLE4.8GFHX

Conf. 1

Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	
RLA (rated load amps / 1s/ U(N))	
Cut in current (U(N))	

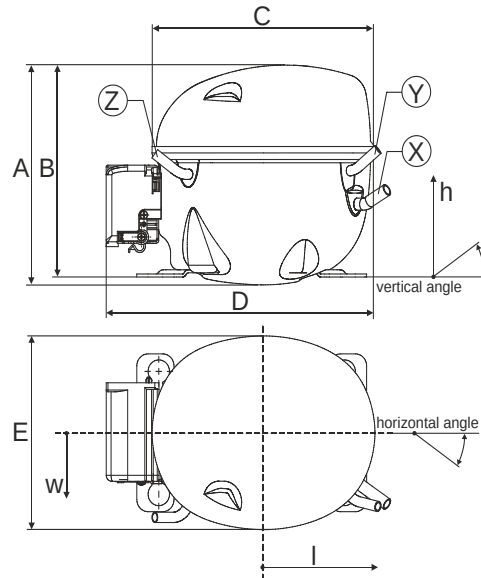
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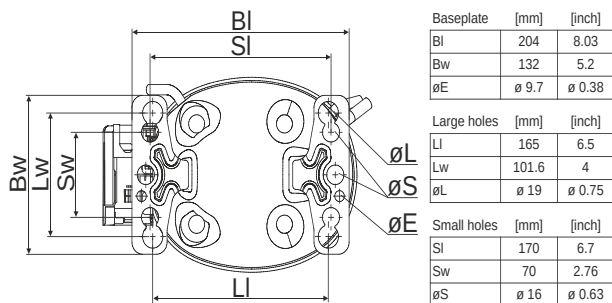
Compressor dimensions

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

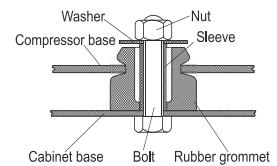
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59	117/107/66	-88/101/71
[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



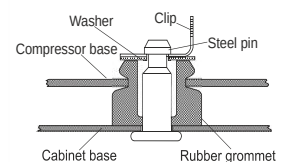
Compressor fixation



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

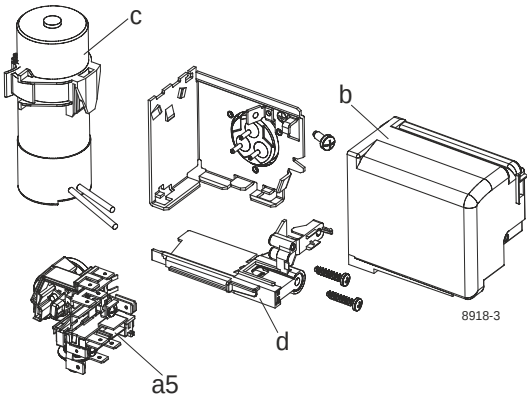
Provision for PE Grounding is located at the PE Stamp on the compressor

Suctiongas connector and Process connector can be switched (minor loss of cooling capacity)

Recommended voltage range for HBP is 103-140V/60Hz

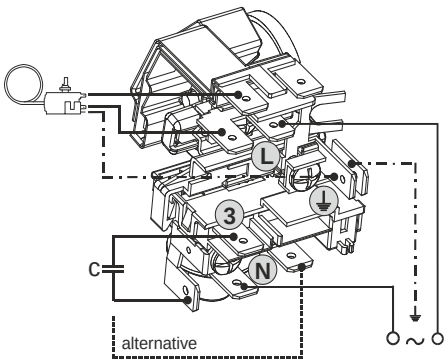
Model					
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	115-127V/60Hz 1~				
Refrigerant	R134a				
Application	LBP+MBP+HBP				
Voltage range	95-140V				
Starting torque	HST				
Approvals	UL				

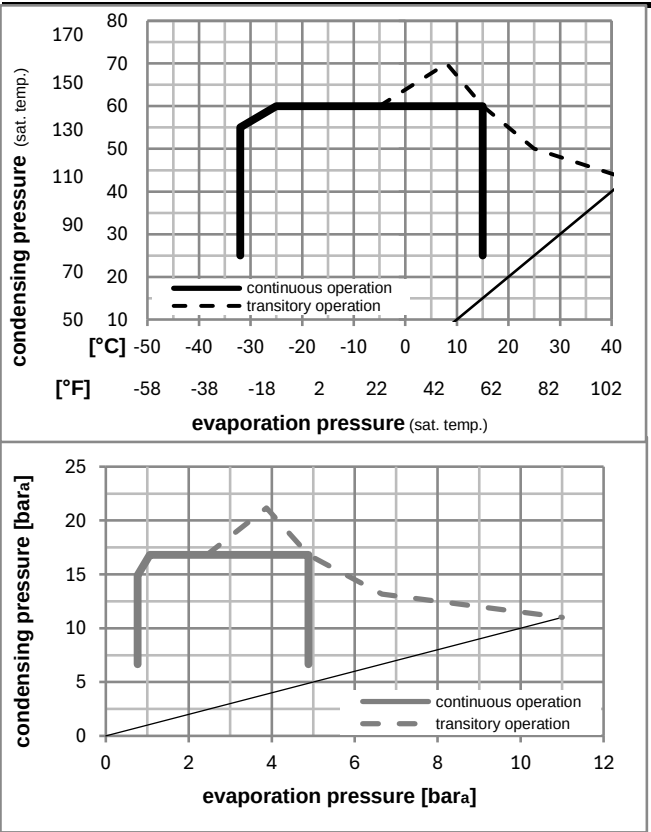


Ambient/ machine room temperatures minimum /maximum

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 (incl. and pre. assembl.)

a5	current relay (T1248/L6)	117U7082
c	start capacitor (240μF)	117U5002
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative comp.

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

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Optimization + standard conditions			R134a, 120V/60Hz, CSIR, fan 3m/s, UL		

	Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)					Power consumption				
	pe	pc	Return gas temp.			Cooling capacity					COP	EER	Current consumption		
			RGT	Tliq	Liquid temp.								P1	I	Ref. mass flow
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]					

Performance tables							R134a, 120V/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	155,2	530	133,5	1,27	4,33	1,09	122,5	2,01	3,36
cond. pressure	-23	-10	155,2	530	133,5	1,27	4,33	1,09	122,5	2,01	3,36
pc= 45/113	-15	5	240,9	823	207,4	1,67	5,72	1,44	143,9	2,11	5,25
return gas temp.	-9	15	315,0	1076	271,1	1,99	6,79	1,71	158,4	2,20	6,90
RGT= 32/90	0	32	478,6	1635	411,9	2,60	8,89	2,24	183,9	2,35	10,58
liquid temp	7,2	45	641,6	2191	552,1	3,13	10,70	2,70	204,8	2,50	14,33
Tliq= 45/113	15	59	859,6	2936	739,8	3,75	12,80	3,23	229,3	2,67	19,47
[°C / °F]	-23	-10	131,0	447	112,7	1,05	3,58	0,90	124,9	2,02	3,13
cond. pressure	-23	-10	131,0	447	112,7	1,05	3,58	0,90	124,9	2,02	3,13
pc= 55/131	-15	5	205,4	701	176,7	1,33	4,55	1,15	154,0	2,17	4,94
return gas temp	-9	15	269,8	921	232,2	1,56	5,33	1,34	173,0	2,28	6,53
RGT= 32/90	0	32	413,3	1411	355,7	2,02	6,88	1,73	205,1	2,49	10,11
liquid temp	7,2	45	557,6	1904	479,9	2,42	8,28	2,09	230,1	2,67	13,79
Tliq= 55/131	15	59	752,6	2570	647,7	2,92	9,96	2,51	258,0	2,89	18,90