

Model			
Designation	KLE4.8GFHX	115-127V/60Hz 1~	Sales code: 106G6503

Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	4,8cm³ / 0,29cu.in
Oil quantity	200cm³ / 6,8fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	1615cm³ / 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	Recommanded voltage range for HBP is 103-140V/60Hz

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

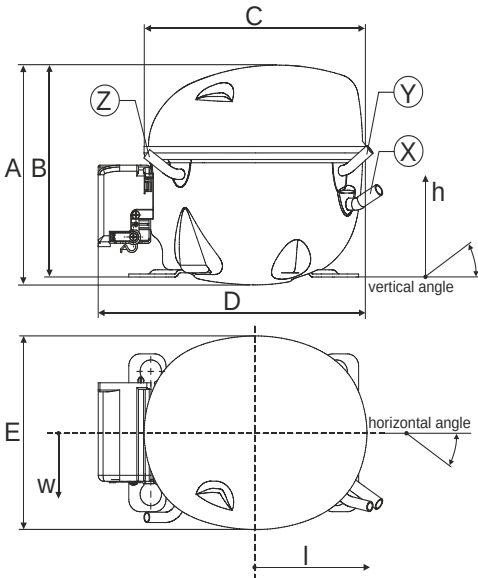
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	
RLA (rated load amps / 1s/ U(N))	
Cut in current (U(N))	

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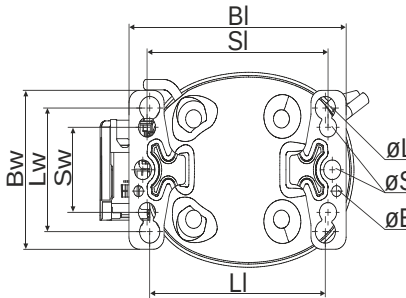
Compressor dimensions

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	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

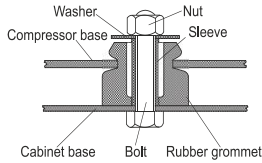


Compressor fixation

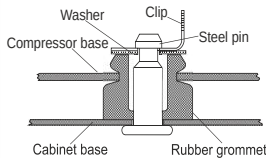


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

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

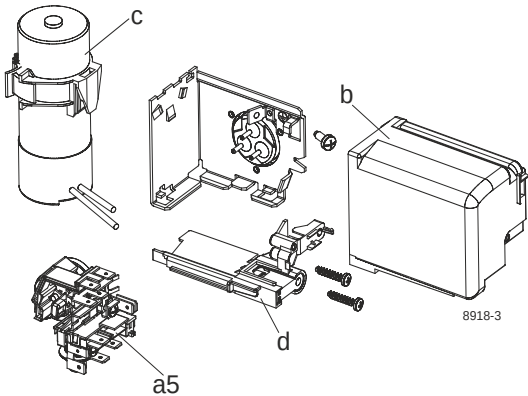
Application notes

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

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

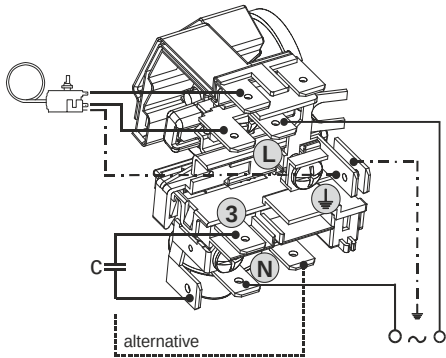
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	115-127V/60Hz 1~				
Refrigerant	R134a				
Application	LBP+MBP+HBP				
Voltage range	95-140V				
Starting torque	HST				
Approvals	UL				

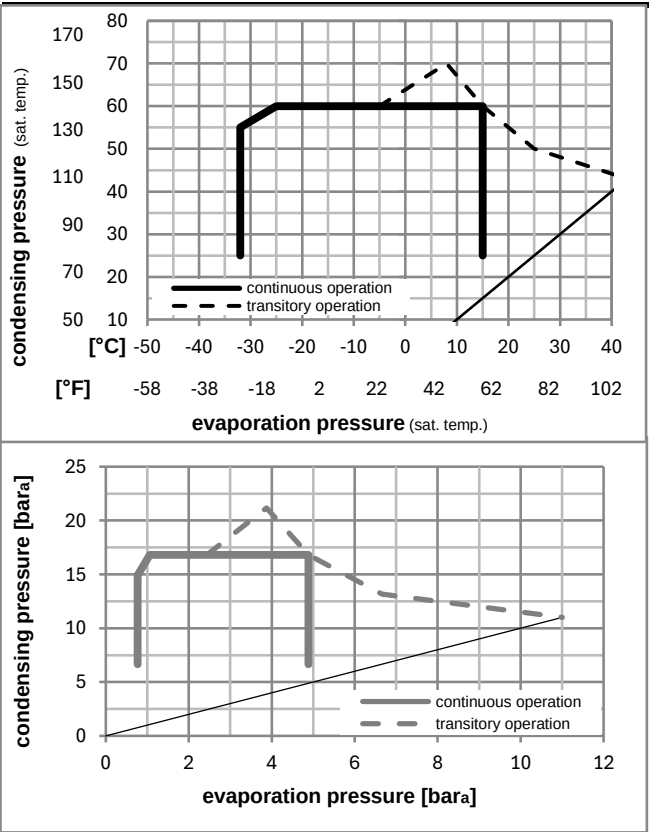


Ambient/ machine room temperatures minimum /maximum

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

a5	current relay (T1248/L6)	117U7082
c	start capacitor (240μF)	117U5002
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

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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	Ref. mass flow										
													Liquid temp.		
	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m						
	[°C]	[°F]					[W]	[A]	[kg/h]						
	-23	54	32	32	161,8	553	139,3	1,30	4,43	1,12	124,9	2,02	3,14	ASHRAE LBP	
	-10	130	90	90											
	-7	54	35	46	340,3	1162	292,9	1,88	6,41	1,61	181,5	2,34	7,43	ASHRAE MBP	
	20	130	95	115											
	7,2	54	35	46	618,7	2113	532,5	2,71	9,25	2,33	228,5	2,66	13,73	ASHRAE HBP	
	45	130	95	115											
	-35	40	20	40	81,5	278	70,1	0,88	2,99	0,75	92,9	1,89	1,79	EN12900 LBP	
	-31	104	68	104											
	-10	45	20	45	295,8	1010	254,6	1,88	6,44	1,62	156,9	2,19	6,92	EN12900 MBP	
	14	113	68	113											
	5	50	20	50	526,1	1797	452,7	2,51	8,58	2,16	209,5	2,53	13,26	EN12900 HBP	
	41	122	68	122											

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