

Model

Designation	KLE5.6GFHX	115-127V/60Hz 1~	Sales code:	106G6613
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	5,6cm ³ / 0,34cu.in
Oil quantity	200cm ³ / 6,8fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	1605cm ³ / 54,3fl.oz		
Weight	9,5kg / 20,9lbs		
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		
Additional note	Good robustness against liquid intake. Ice-cube maker optimization - indirect suction intake.		



General - Configurations with KLE5.6GFHX

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 KLE5.6GFHX

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 KLE5.6GFHX

Conf. 1

Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
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

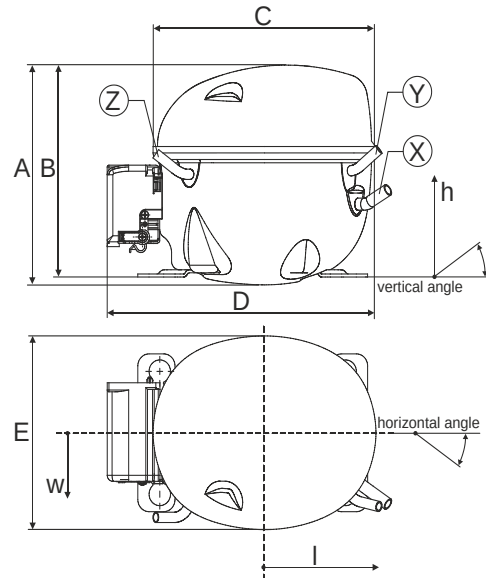
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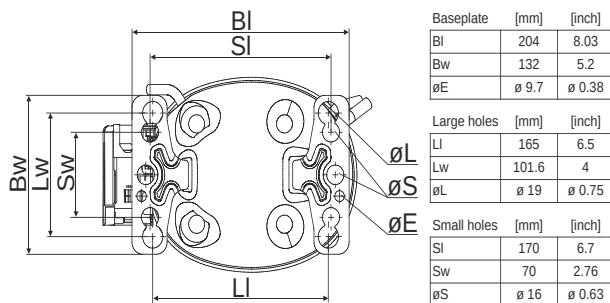
Compressor dimensions

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

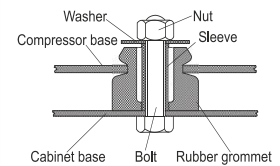
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59	117/107/66	-88/101/71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



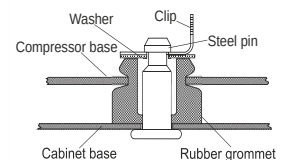
Compressor fixation



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

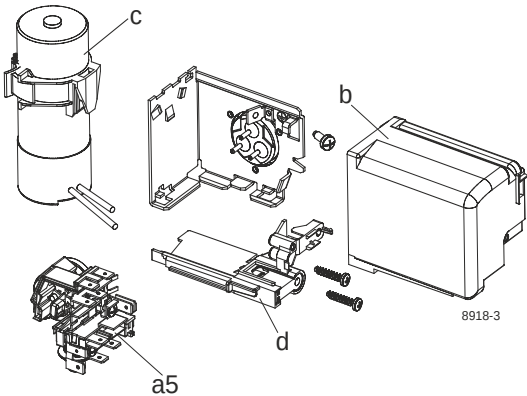
Provision for PE Grounding is located at the PE Stamp on the compressor

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

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

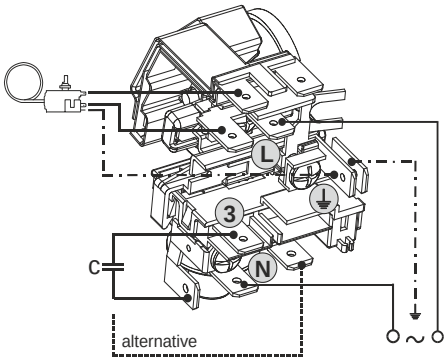
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	115-127V/60Hz 1~				
Refrigerant	R134a				
Application	LBP+MBP+HBP				
Voltage range	95-140V				
Starting torque	HST				
Approvals	UL				

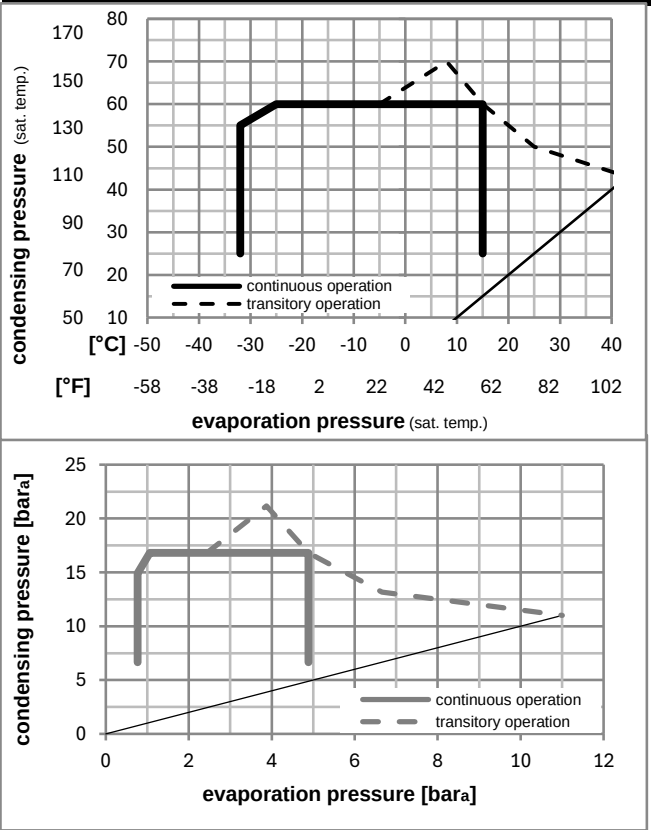


Ambient/ machine room temperatures minimum /maximum

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)	117U7083
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

Model

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Optimization + standard conditions

R134a, 120V/60Hz, CSIR, fan 3m/s, UL

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]	P1	I	m		
											[W]	[A]	[kg/h]		
°C	-23	54	32	32	193,7	662	166,7	1,30	4,43	1,12	149,4	2,44	3,76	ASHRAE LBP	
°F	-10	130	90	90											
°C	-7	54	35	46	401,3	1370	345,3	1,86	6,34	1,60	216,2	2,85	8,75	ASHRAE MBP	
°F	20	130	95	115											
°C	7,2	54	35	46	714,0	2438	614,4	2,61	8,91	2,24	273,8	3,27	15,84	ASHRAE HBP	
°F	45	130	95	115											
°C	-35	40	20	40	91,0	311	78,3	0,85	2,91	0,73	106,9	2,26	2,00	EN12900 LBP	
°F	-31	104	68	104											
°C	-10	45	20	45	349,6	1194	300,8	1,83	6,23	1,57	191,5	2,68	8,18	EN12900 MBP	
°F	14	113	68	113											
°C	5	50	20	50	608,0	2076	523,3	2,41	8,24	2,08	251,9	3,11	15,32	EN12900 HBP	
°F	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]	[W]	[A]	[kg/h]	[kg/h]
[°C / °F]	-23	-10	185,1	632	159,3	1,23	4,21	1,06	150,1	2,44	4,01				
cond. pressure	-23	-10	185,1	632	159,3	1,23	4,21	1,06	150,1	2,44	4,01				
pc= 45/113	-15	5	286,3	978	246,4	1,62	5,55	1,40	176,3	2,59	6,24				
return gas temp.	-9	15	372,0	1270	320,1	1,93	6,58	1,66	193,2	2,69	8,14				
RGT= 32/90	0	32	558,8	1908	480,9	2,51	8,58	2,16	222,4	2,89	12,36				
liquid temp	7,2	45	742,6	2536	639,1	3,01	10,29	2,59	246,4	3,06	16,59				
Tliq= 45/113	15	59	986,8	3370	849,2	3,59	12,24	3,09	275,2	3,28	22,35				
[°C / °F]	-23	-10	156,7	535	134,8	1,05	3,59	0,91	149,0	2,44	3,75				
cond. pressure	-23	-10	156,7	535	134,8	1,05	3,59	0,91	149,0	2,44	3,75				
pc= 55/131	-15	5	245,1	837	210,9	1,34	4,56	1,15	183,3	2,64	5,90				
return gas temp	-9	15	319,6	1092	275,1	1,55	5,31	1,34	205,7	2,78	7,73				
RGT= 32/90	0	32	482,5	1648	415,2	1,98	6,75	1,70	244,3	3,05	11,80				
liquid temp	7,2	45	643,8	2199	554,1	2,34	7,98	2,01	275,5	3,28	15,92				
Tliq= 55/131	15	59	859,7	2936	739,9	2,75	9,40	2,37	312,3	3,56	21,59				