

Customer specific model

Model

Designation	KLE6.6GFHX	115-127V/60Hz 1~	Sales code:	106G6711
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	6,6cm ³ / 0,4cu.in
Oil quantity	200cm ³ / 6,8fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	1580cm ³ / 53,4fl.oz		
Weight	9,5kg / 20,9lbs		
Motor protection	external		
Winding resistance main	2Ω (at 25°C)		
Winding resistance aux	5,3Ω (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 KLE6.6GFHX

	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 KLE6.6GFHX

	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 KLE6.6GFHX

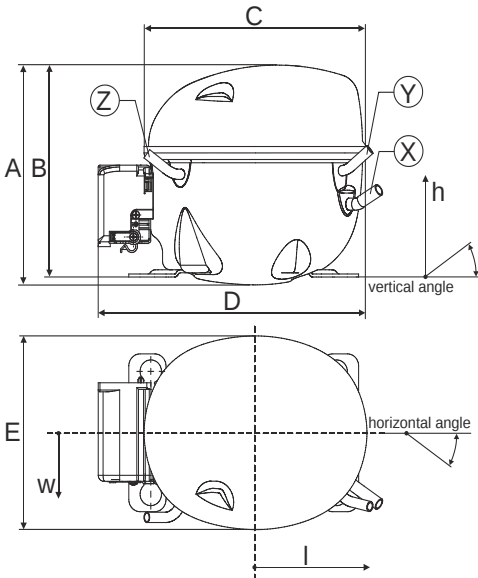
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	240μF
LRA (locked rotor amps / 4s/ U(N))	31,1A
RLA (rated load amps / 1s/ U(N))	4,3A
Cut in current (U(N))	27,8A

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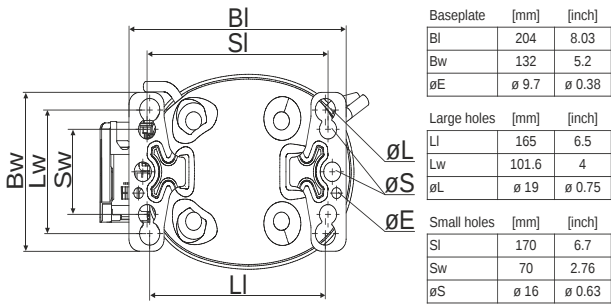
Compressor dimensions

Housing	A Height	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

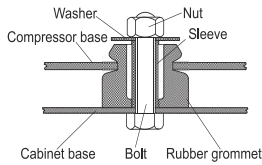
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 6,51-6,69	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,26-0,26	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	122/74/61	117/107/66	-88/101/71
[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



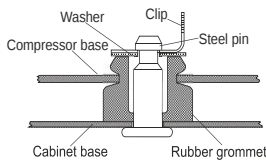
Compressor fixation



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

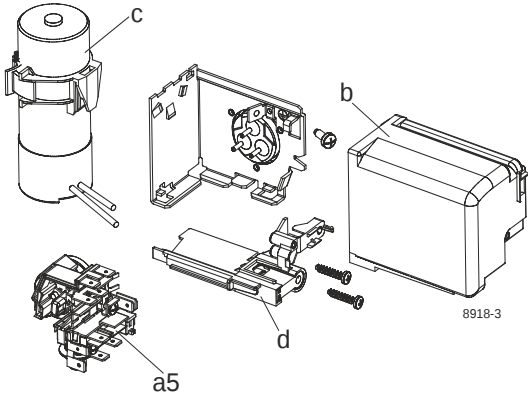
Provision for PE Grounding is located at the PE Stamp on the compressor

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

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

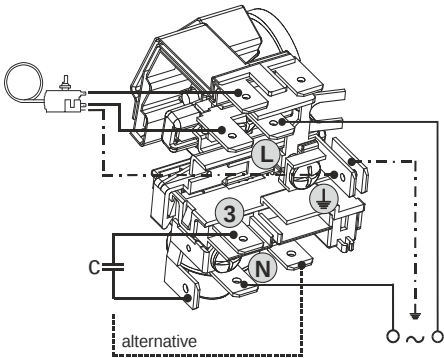
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	115-127V/60Hz 1~				
Refrigerant	R134a				
Application	LBP+MBP+HBP				
Voltage range	95-140V				
Starting torque	HST				
Approvals	UL				

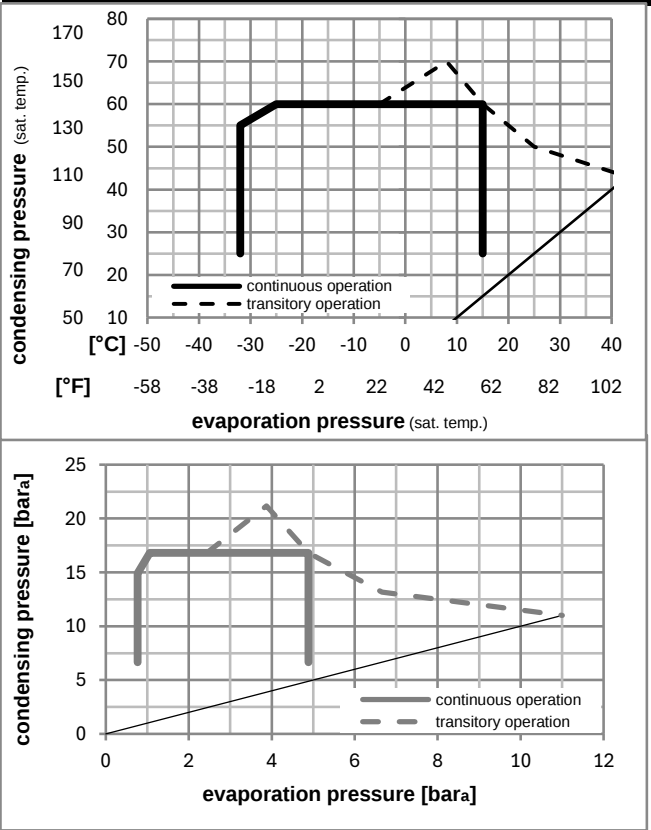


Ambient/ machine room temperatures minimum /maximum

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 (T1246/L6)	117U7080
c	start capacitor (240μF)	117U5005
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			
Return gas temp.					Current consumption						Ref. mass flow			
Liquid temp.														
Cooling capacity					COP		EER		P1		I		ṁ	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	234,4	801	201,7	1,34	4,57	1,15	175,1	2,59	4,55	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	482,6	1648	415,4	1,87	6,38	1,61	258,4	3,15	10,53	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	853,7	2916	734,7	2,57	8,79	2,21	331,7	3,73	18,94	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	117,8	402	101,3	0,96	3,26	0,82	123,3	2,33	2,58	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	417,9	1427	359,7	1,85	6,32	1,59	225,8	2,91	9,78	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	727,1	2483	625,8	2,37	8,11	2,04	306,4	3,52	18,32	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]
[°C / °F]	-23	-10	223,5	763	192,3	1,30	4,43	1,12	172,2	2,57	4,85
cond. pressure	-23	-10	223,5	763	192,3	1,30	4,43	1,12	172,2	2,57	4,85
pc= 45/113	-15	5	342,8	1171	295,0	1,67	5,69	1,43	205,7	2,77	7,47
return gas temp.	-9	15	444,7	1519	382,7	1,95	6,66	1,68	228,1	2,93	9,74
RGT= 32/90	0	32	667,5	2279	574,4	2,49	8,50	2,14	268,0	3,23	14,76
liquid temp	7,2	45	886,8	3029	763,2	2,94	10,05	2,53	301,3	3,48	19,81
Tliq= 45/113	15	59	1177,7	4022	1013,5	3,45	11,79	2,97	341,2	3,79	26,68
[°C / °F]	-23	-10	189,5	647	163,1	1,08	3,70	0,93	175,1	2,59	4,54
cond. pressure	-23	-10	189,5	647	163,1	1,08	3,70	0,93	175,1	2,59	4,54
pc= 55/131	-15	5	295,7	1010	254,5	1,36	4,65	1,17	217,3	2,86	7,12
return gas temp	-9	15	384,9	1315	331,3	1,57	5,36	1,35	245,3	3,05	9,31
RGT= 32/90	0	32	578,8	1977	498,1	1,97	6,72	1,69	294,0	3,42	14,16
liquid temp	7,2	45	769,8	2629	662,5	2,31	7,88	1,99	333,5	3,74	19,04
Tliq= 55/131	15	59	1024,2	3498	881,4	2,70	9,21	2,32	379,6	4,11	25,73