

Model

Designation	KLE6.6GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5704
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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	240cm ³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	250g / 8,8oz		
Free gas volume comp.	1510cm ³ / 51,1fl.oz		
Weight	9,5kg / 20,9lbs		
Motor protection	external		
Winding resistance main	8,4Ω (at 25°C)		
Winding resistance aux	11,9Ω (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 KLE6.6GFTX

	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240V/50Hz	208-230V/60Hz
Number of phases	1	1
Voltage range	187-254V	198-253V
Approvals	VDE, CB, UL	VDE, CB, UL
Starting torque	HST	HST
Note	- / -	

Applications with KLE6.6GFTX

	Conf. 1	Conf. 2
Refrigerant	R134a	R134a
Application	LBP+MBP+HBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Electrical data - Configurations with KLE6.6GFTX

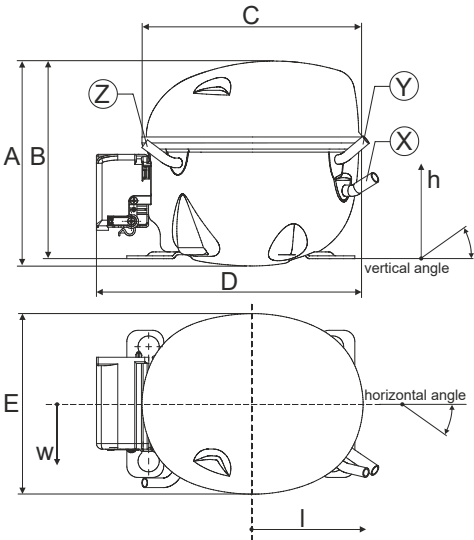
	Conf. 1	Conf. 2
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	80μF	80μF
LRA (locked rotor amps / 4s/ U(N))	13,4A	13,2A
RLA (rated load amps / 1s/ U(N))	1,8A	2A
Cut in current (U(N))	12,3A	12,3A

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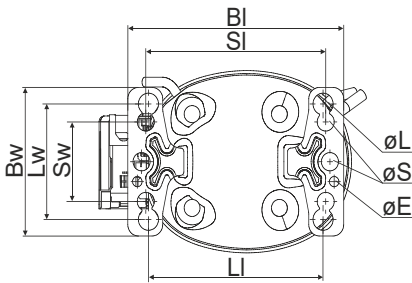
Compressor dimensions

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
	[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

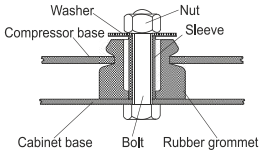


Compressor fixation

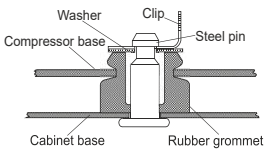


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

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

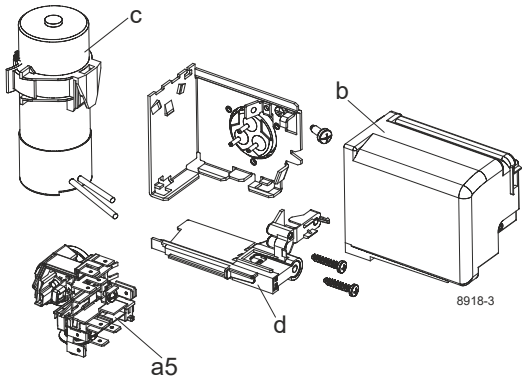
Application notes

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)

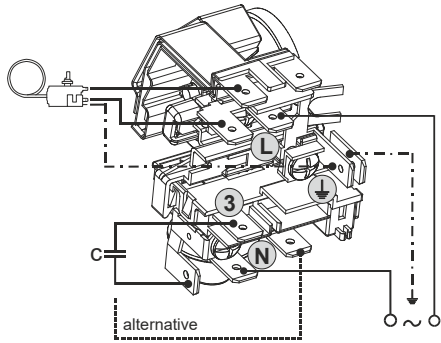
Model				
Designation	KLE6.6GFTX	220-240V/50Hz	Conf. 1	Sales code: 106G5704

Configuration		Electrical accessories / wiring diagram	
Motor configuration	CSIR	CSIR	
Power supply (nominal)	220-240V/50Hz 1~		
Refrigerant	R134a		
Application	LBP+MBP+HBP		
Voltage range	187-254V		
Starting torque	HST		
Approvals	VDE		
	CB		
	UL		

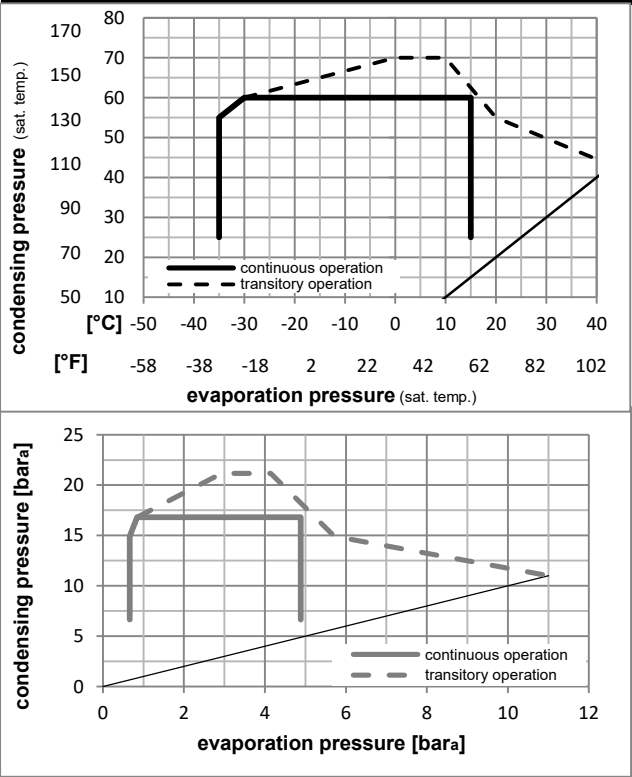


Ambient/ machine room temperatures minimum /maximum

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 (T0377/L6-S1)	117U7071
c	start capacitor (80µF, 6.3mm)	117U5001
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 **KLE6.6GFTX** **220-240V/50Hz** Conf. 1 Sales code: **106G5704**

Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, 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				m																																																				
pe					pc					RGT					Tliq					[W]					[Btu/h]					[kcal/h]					[W/W]					[Btu/Wh]					[kcal/Wh]					[W]					[A]					[kg/h]																			
[°C]		-23		54		32		32		188,9					645					162,6					1,29					4,40					1,11					146,5					1,29					3,67					ASHRAE LBP																								
[°F]		-10		130		90		90																																																																							
[°C]		-7		54		35		46		401,3					1371					345,4					1,85					6,32					1,59					216,8					1,52					8,76					ASHRAE MBP																								
[°F]		20		130		95		115																																																																							
[°C]		7,2		54		35		46		716,7					2447					616,8					2,58					8,83					2,22					277,3					1,76					15,90					ASHRAE HBP																								
[°F]		45		130		95		115																																																																							
[°C]		-35		40		20		40		99,4					339					85,5					0,95					3,23					0,81					105,0					1,20					2,18					EN12900 LBP																								
[°F]		-31		104		68		104																																																																							
[°C]		-10		45		20		45		347,2					1186					298,8					1,87					6,40					1,61					185,2					1,41					8,13					EN12900 MBP																								
[°F]		14		113		68		113																																																																							
[°C]		5		50		20		50		611,9					2090					526,6					2,40					8,20					2,07					254,9					1,67					15,42					EN12900 HBP																								
[°F]		41		122		68		122																																																																							

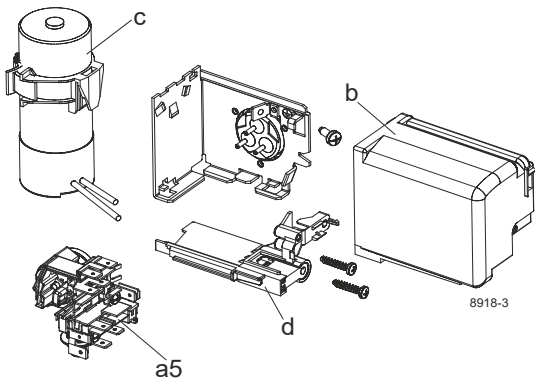
Performance tables

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, 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]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	93,8	320	80,7	0,88	3,02	0,76	106,0	1,20	2,02									
cond. pressure	-25	-13	163,5	558	140,7	1,22	4,15	1,05	134,6	1,25	3,54									
pc= 45/113	-15	5	281,3	961	242,1	1,68	5,73	1,44	167,5	1,35	6,13									
return gas temp.	-10	14	360,2	1230	310,0	1,94	6,64	1,67	185,2	1,41	7,88									
RGT= 32/90	0	32	562,0	1919	483,6	2,53	8,65	2,18	221,8	1,54	12,43									
liquid temp	5	41	686,5	2344	590,8	2,86	9,76	2,46	240,3	1,61	15,28									
Tliq= 45/113	15	59	986,7	3370	849,2	3,56	12,17	3,07	276,9	1,76	22,35									
[°C / °F]	-35	-31	75,9	259	65,3	0,74	2,54	0,64	102,0	1,18	1,81									
cond. pressure	-25	-13	138,6	473	119,3	0,99	3,38	0,85	139,9	1,27	3,31									
pc= 55/131	-15	5	241,4	824	207,8	1,33	4,54	1,14	181,5	1,40	5,81									
return gas temp	-10	14	309,9	1058	266,7	1,53	5,21	1,31	203,2	1,47	7,49									
RGT= 32/90	0	32	485,0	1656	417,4	1,96	6,70	1,69	247,2	1,64	11,86									
liquid temp	5	41	593,2	2026	510,5	2,20	7,52	1,90	269,3	1,73	14,62									
Tliq= 55/131	15	59	855,0	2920	735,8	2,74	9,35	2,36	312,3	1,92	21,48									

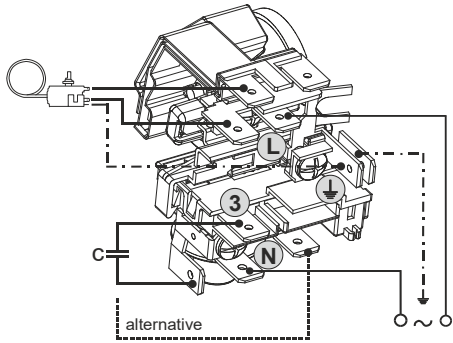
Model				
Designation	KLE6.6GFTX	208-230V/60Hz	Conf. 2	Sales code: 106G5704

Configuration		Electrical accessories / wiring diagram	
Motor configuration	CSIR	CSIR	
Power supply (nominal)	208-230V/60Hz 1~		
Refrigerant	R134a		
Application	LBP+MBP		
Voltage range	198-253V		
Starting torque	HST		
Approvals	VDE		
	CB		
	UL		

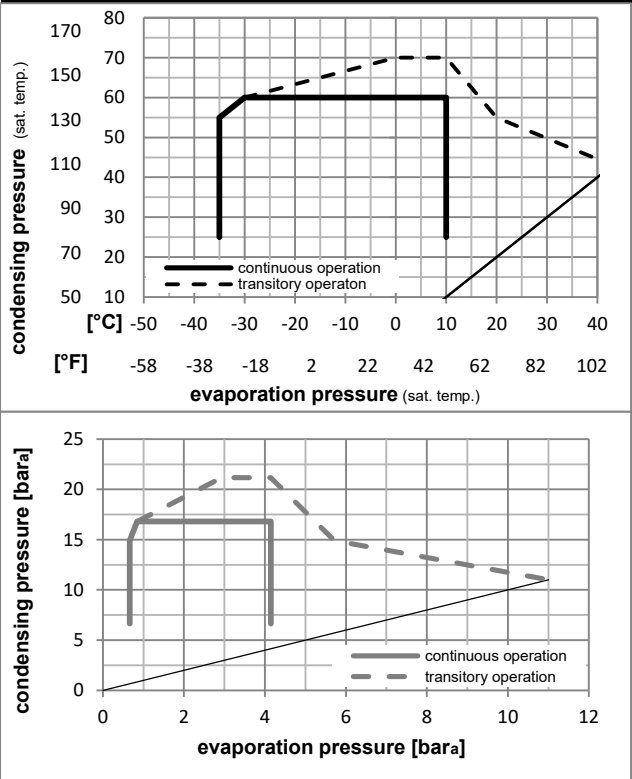


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Operation pressure range



Components		
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c	start capacitor (80µF, 6.3mm)	117U5001
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 **KLE6.6GFTX** **208-230V/60Hz** Conf. 2 Sales code: **106G5704**

Optimization + standard conditions

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, 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]	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]
[°C]	-23	54	32	32	228,9	782	197,0	1,37	4,68	1,18	166,9	1,25	4,45	ASHRAE LBP																
[°F]	-10	130	90	90																										
[°C]	-7	54	35	46	474,6	1621	408,5	1,91	6,53	1,64	248,3	1,50	10,35	ASHRAE MBP																
[°F]	20	130	95	115																										
[°C]	7,2	54	35	46	839,2	2866	722,3	2,63	8,97	2,26	319,5	1,75	18,62	ASHRAE HBP																
[°F]	45	130	95	115																										
[°C]	-35	40	20	40	118,4	404	101,9	1,09	3,72	0,94	108,7	1,11	2,60	EN12900 LBP																
[°F]	-31	104	68	104																										
[°C]	-10	45	20	45	407,9	1393	351,0	1,88	6,43	1,62	216,5	1,39	9,55	EN12900 MBP																
[°F]	14	113	68	113																										
[°C]	5	50	20	50	715,2	2443	615,5	2,40	8,21	2,07	297,6	1,67	18,02	EN12900 HBP																
[°F]	41	122	68	122																										

Performance tables

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, 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]	-35	-31	111,4	380	95,9	1,04	3,54	0,89	107,6	1,11	2,40				
cond. pressure	-25	-13	196,8	672	169,4	1,29	4,39	1,11	153,1	1,21	4,26				
pc= 45/113	-15	5	332,8	1137	286,4	1,70	5,81	1,47	195,5	1,32	7,25				
return gas temp.	-10	14	423,2	1445	364,2	1,95	6,67	1,68	216,5	1,39	9,26				
RGT= 32/90	0	32	655,6	2239	564,2	2,52	8,60	2,17	260,5	1,54	14,50				
liquid temp	5	41	800,4	2733	688,8	2,82	9,62	2,42	284,1	1,62	17,82				
Tliq= 45/113	15	59	1154,0	3941	993,2	3,43	11,70	2,95	336,9	1,81	26,14				
[°C / °F]	-35	-31	86,1	294	74,1	0,82	2,80	0,71	105,0	1,10	2,05				
cond. pressure	-25	-13	167,9	573	144,5	1,06	3,61	0,91	158,9	1,22	4,02				
pc= 55/131	-15	5	289,4	988	249,0	1,39	4,74	1,19	208,6	1,37	6,97				
return gas temp	-10	14	368,4	1258	317,1	1,58	5,40	1,36	233,0	1,44	8,91				
RGT= 32/90	0	32	570,0	1947	490,6	2,02	6,89	1,74	282,6	1,62	13,94				
liquid temp	5	41	695,3	2375	598,4	2,25	7,69	1,94	308,7	1,71	17,13				
Tliq= 55/131	15	59	1001,8	3421	862,1	2,74	9,36	2,36	365,7	1,93	25,16				