Model
KLE5.6GFHX

Sales code:
106G6613

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**5.60 cm3 / 0.34cu.in**
Compressors on pallet	**100**

General – Configurations With KLE5.6GFHX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-140 V	95-140 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	LBP+MBP+HBP	LBP+MBP+HBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Electrical equipment is included and pre-assembled to compressor.
- 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 103-140 V/60 Hz
- Good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

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Compressor Design

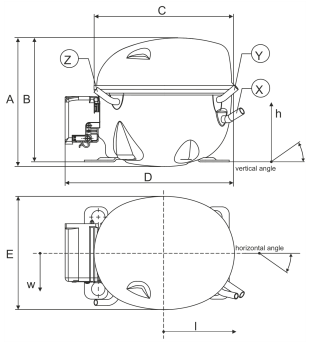
Oil type	**POE**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**17 Ohm**
Oil quantity	**200 cm3 / 6.76fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,605 cm3 / 54.27fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

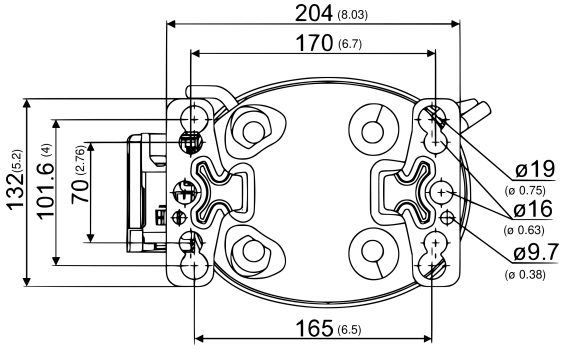
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



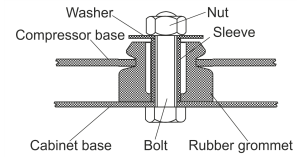
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

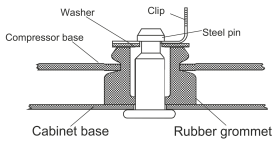


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
KLE5.6GFHX Configuration 1

Sales code:
106G6613

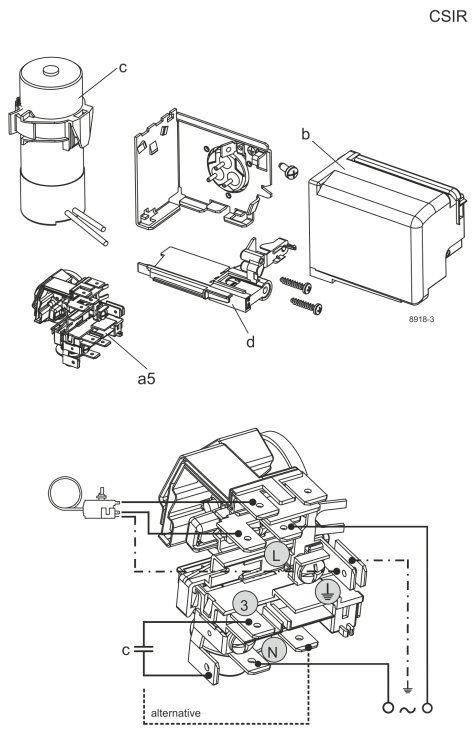
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**31.1 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**31.5 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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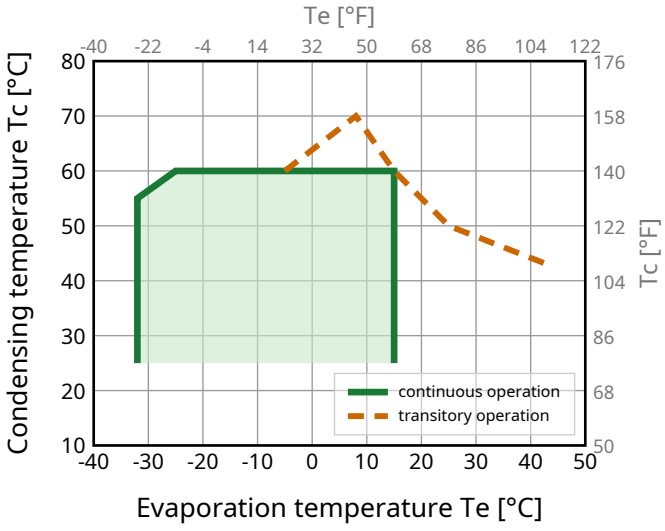
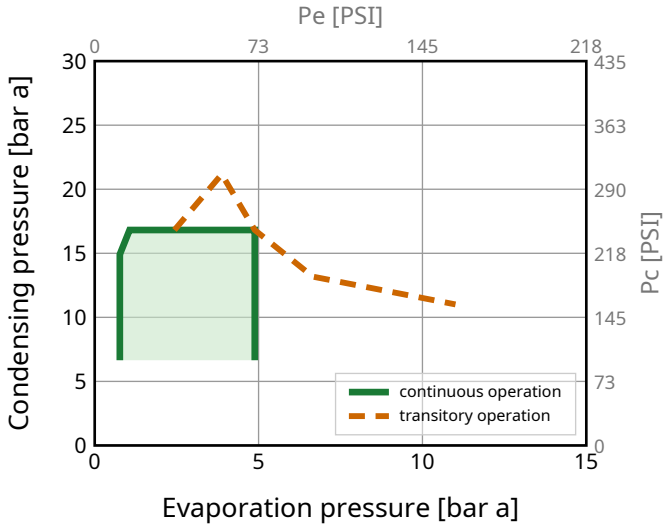
Components (already pre-assembled)
a5 current relay (T1248/L6) 117U7083
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE5.6GFHX Configuration 1

Sales code:
106G6613

Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**194**	661	167	**1.30**	4.42	150	2.44	3.76	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**400**	1365	344	**1.85**	6.32	216	2.85	8.71	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**713**	2432	613	**2.60**	8.89	274	3.27	15.78	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**91**	311	78	**0.85**	2.91	107	2.26	1.99	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**350**	1195	301	**1.83**	6.24	192	2.68	8.16	**EN12900 MBP**
5 41	50 122	20 68	50 122	**609**	2078	524	**2.42**	8.25	252	3.11	15.28	**EN12900 HBP**

Performance Tables

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

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-32	-26	**107**	366	92	**0.90**	3.05	120	2.31	2.31
-30	-22	**123**	421	106	**0.97**	3.31	127	2.34	2.66
-20	-4	**222**	757	191	**1.38**	4.71	161	2.50	4.81
-10	14	**363**	1238	312	**1.89**	6.46	192	2.68	7.92
0	32	**559**	1907	481	**2.51**	8.57	222	2.89	12.33
10	50	**824**	2811	709	**3.21**	10.97	256	3.14	18.44
15	59	**987**	3367	849	**3.58**	12.23	275	3.28	22.29

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-32	-26	**87**	297	75	**0.79**	2.69	110	2.26	2.07
-30	-22	**102**	346	87	**0.85**	2.89	120	2.30	2.42
-20	-4	**189**	645	163	**1.16**	3.96	163	2.52	4.52
-10	14	**312**	1063	268	**1.53**	5.22	204	2.76	7.51
0	32	**482**	1646	415	**1.98**	6.74	244	3.05	11.77
10	50	**716**	2442	615	**2.48**	8.47	288	3.38	17.73
15	59	**860**	2933	739	**2.75**	9.39	312	3.56	21.52

Model
KLE5.6GFHX Configuration 2

Sales code:
106G6613

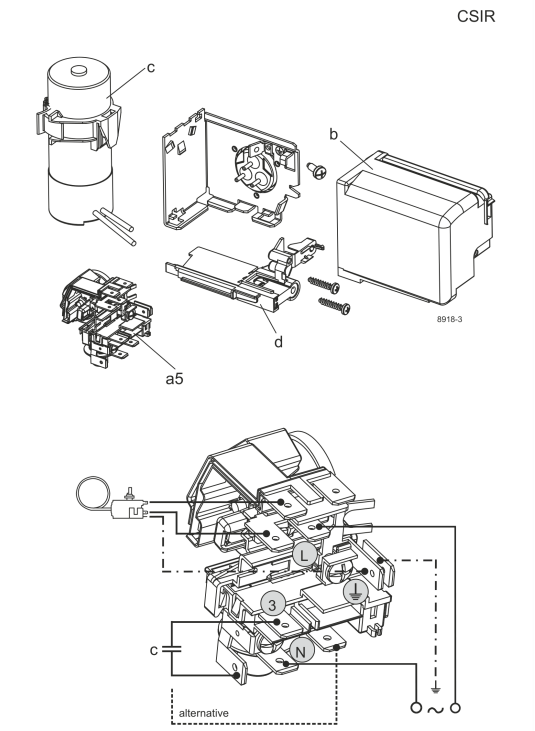
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**31.1 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**31.5 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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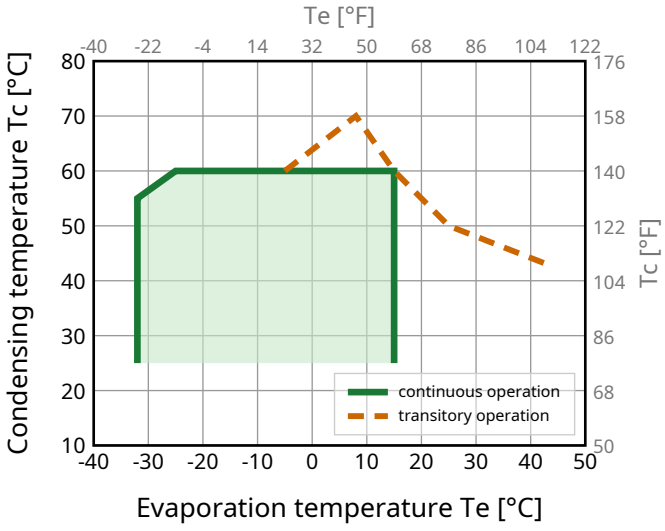
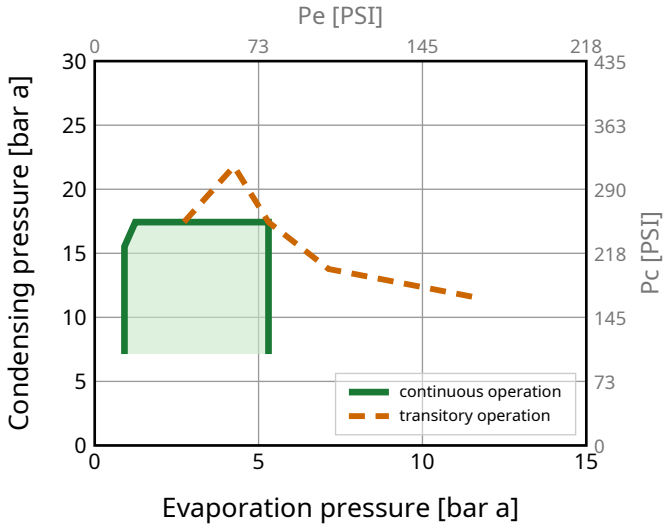
Components (already pre-assembled)
a5 current relay (T1248/L6) 117U7083
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE5.6GFHX Configuration 2

Sales code:
106G6613

Standard Conditions

R513A, 120 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**213**	728	184	**1.31**	4.49	162	2.51	4.67	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**420**	1432	361	**1.84**	6.27	228	2.94	10.46	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**733**	2502	631	**2.57**	8.76	286	3.36	18.63	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**101**	345	87	**0.87**	2.97	116	2.30	2.54	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**364**	1243	313	**1.80**	6.15	202	2.75	9.86	**EN12900 MBP**
5 41	50 122	20 68	50 122	**614**	2094	528	**2.34**	8.00	262	3.18	18.10	**EN12900 HBP**

Performance Tables

R513A, 120 V/60 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-32	-26	**119**	407	103	**0.91**	3.09	132	2.36	2.94
-30	-22	**136**	464	117	**0.98**	3.33	139	2.40	3.35
-20	-4	**238**	813	205	**1.38**	4.72	172	2.56	5.92
-10	14	**382**	1304	329	**1.89**	6.45	202	2.75	9.57
0	32	**580**	1979	499	**2.51**	8.55	231	2.96	14.69
10	50	**844**	2880	726	**3.21**	10.94	263	3.19	21.74
15	59	**1005**	3429	864	**3.57**	12.18	282	3.33	26.16

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-32	-26	**97**	330	83	**0.79**	2.69	123	2.31	2.67
-30	-22	**112**	380	96	**0.84**	2.88	132	2.35	3.08
-20	-4	**200**	683	172	**1.14**	3.89	176	2.59	5.57
-10	14	**323**	1102	278	**1.50**	5.10	216	2.85	9.06
0	32	**492**	1679	423	**1.92**	6.55	257	3.14	14.00
10	50	**721**	2459	620	**2.40**	8.18	300	3.47	20.88
15	59	**861**	2938	740	**2.65**	9.05	325	3.65	25.24