Model
KLE7.7CFHX

Sales code:
106G6813

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**9.60 kg / 21.16lbs**
Displacement	**7.70 cm3 / 0.47cu.in**
Compressors on pallet	**100**

General – Configurations With KLE7.7CFHX

–	**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	LBP+MBP
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)
- Good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

Model
KLE7.7CFHX

Sales code:
106G6813

Compressor Design

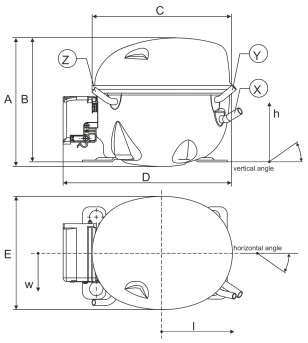
Oil type	**POE**	Winding resistance main	**2 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**5.3 Ohm**
Oil quantity	**200 cm3 / 6.76fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,575 cm3 / 53.26fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

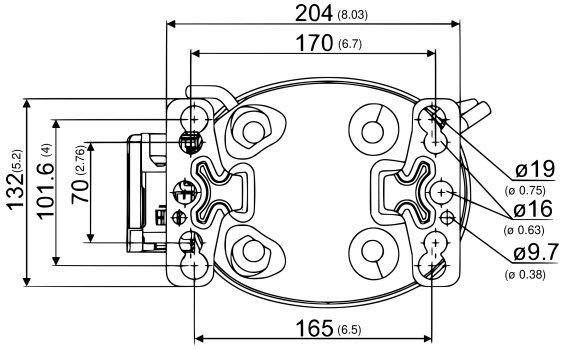
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



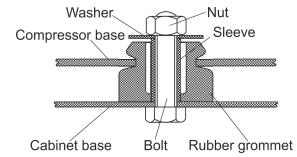
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

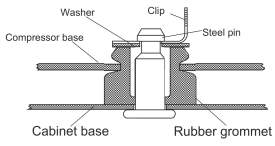


Dimensions in mm [in]

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
KLE7.7CFHX Configuration 1

Sales code:
106G6813

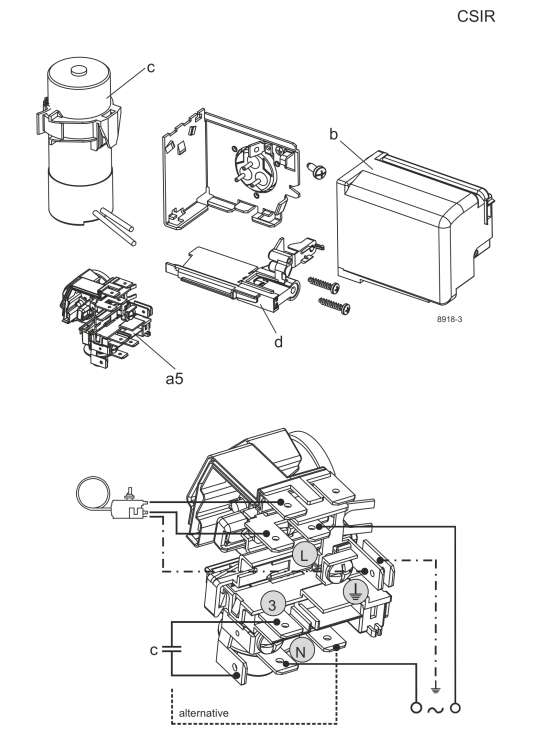
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
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

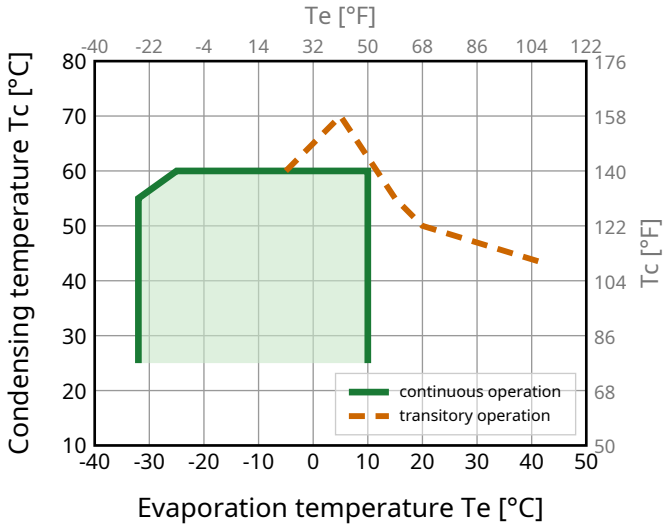


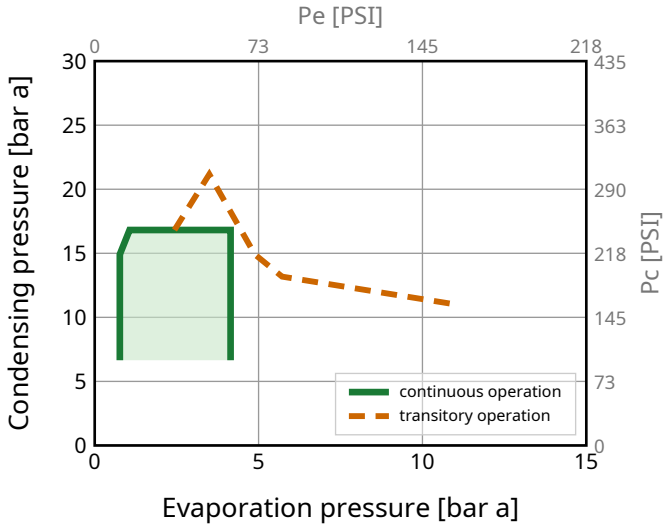
View full size

Components (already pre-assembled)
a5 current relay (T1217/L6-S5) 117U7075
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 Sales code:

KLE7.7CFHX Configuration 1 **106G6813**

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	**266**	909	229	**1.33**	4.55	200	2.74	5.17	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**196**	668	168	**1.02**	3.48	192	2.69	4.67	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**133**	455	115	**0.97**	3.32	137	2.38	2.92	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**542**	1849	466	**1.81**	6.18	299	3.46	11.80	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**423**	1442	363	**1.51**	5.16	280	3.31	10.19	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**468**	1596	402	**1.78**	6.08	262	3.18	10.91	**EN12900 MBP**

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	**153**	521	131	**1.04**	3.54	147	2.41	3.29
-30	-22	**172**	585	147	**1.09**	3.73	157	2.46	3.70
-20	-4	**297**	1014	256	**1.43**	4.88	208	2.79	6.44
-10	14	**484**	1653	417	**1.85**	6.30	262	3.18	10.58
0	32	**745**	2542	641	**2.33**	7.93	320	3.64	16.43
10	50	**1090**	3719	937	**2.85**	9.72	383	4.16	24.40

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

-32	-26	**127**	435	110	**0.82**	2.80	155	2.48	3.03
-30	-22	**145**	494	125	**0.88**	2.99	166	2.54	3.45
-20	-4	**258**	880	222	**1.17**	4.00	220	2.87	6.17
-10	14	**423**	1442	363	**1.51**	5.16	280	3.31	10.19
0	32	**650**	2219	559	**1.88**	6.42	345	3.84	15.86
10	50	**953**	3251	819	**2.28**	7.79	418	4.45	23.61

Model
KLE7.7CFHX Configuration 2

Sales code:
106G6813

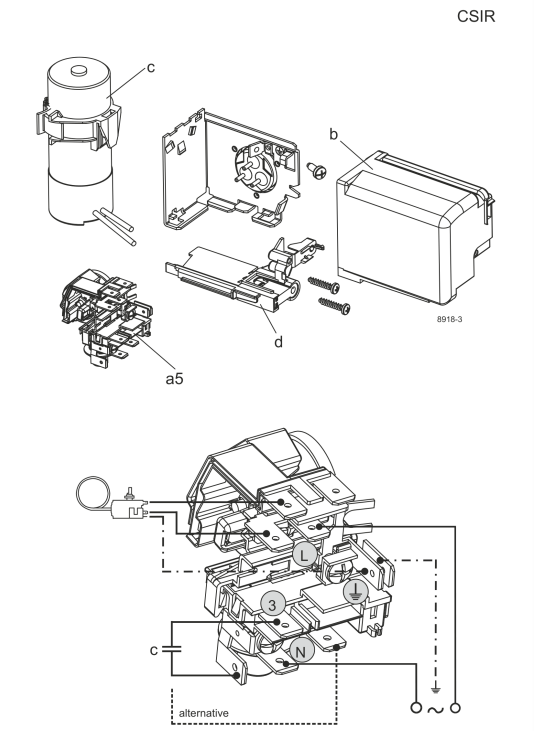
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
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

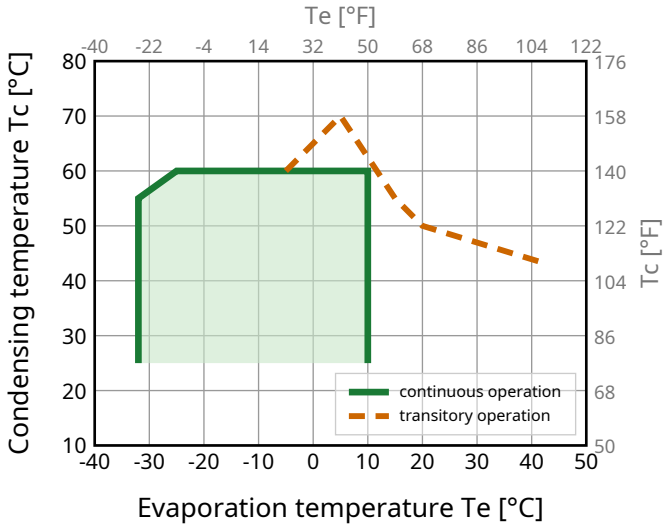


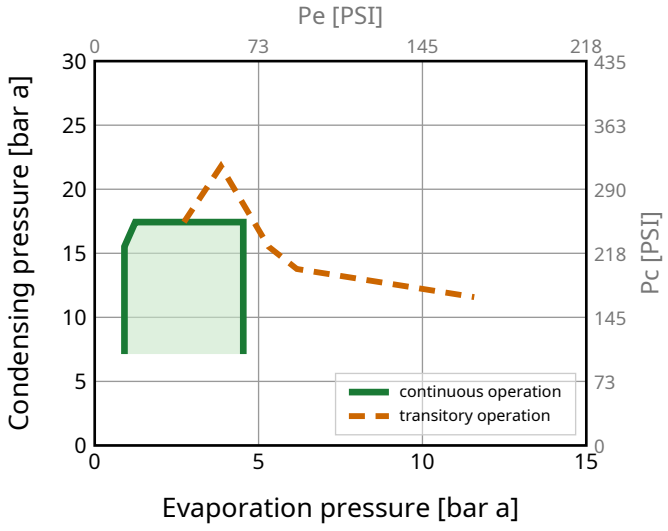
View full size

Components (already pre-assembled)
a5 current relay (T1217/L6-S5) 117U7075
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

KLE7.7CFHX Configuration 2

Sales code:

106G6813

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	**294**	1003	253	**1.35**	4.60	218	2.86	6.43	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**211**	719	181	**1.00**	3.41	211	2.82	5.84	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**147**	500	126	**0.93**	3.16	158	2.48	3.69	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**567**	1935	488	**1.79**	6.12	316	3.60	14.14	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**438**	1493	376	**1.47**	5.02	297	3.45	12.28	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**485**	1656	417	**1.72**	5.87	282	3.33	13.14	**EN12900 MBP**

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	**169**	577	145	**1.02**	3.49	165	2.51	4.17
-30	-22	**189**	646	163	**1.08**	3.69	175	2.57	4.67
-20	-4	**320**	1092	275	**1.41**	4.82	226	2.92	7.94
-10	14	**509**	1738	438	**1.81**	6.16	282	3.33	12.75
0	32	**770**	2628	662	**2.25**	7.68	342	3.81	19.51
10	50	**1116**	3807	960	**2.73**	9.32	408	4.37	28.74

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

-32	-26	**139**	475	120	**0.80**	2.73	174	2.58	3.84
-30	-22	**158**	539	136	**0.86**	2.92	184	2.64	4.36
-20	-4	**274**	935	236	**1.15**	3.92	238	3.01	7.62
-10	14	**438**	1493	376	**1.47**	5.02	297	3.45	12.28
0	32	**662**	2259	569	**1.83**	6.25	362	3.97	18.83
10	50	**961**	3278	826	**2.22**	7.58	432	4.59	27.83