Model
KLF6.6MFT

Sales code:
106G2701

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**9.40 kg / 20.72lbs**
Displacement	**6.60 cm3 / 0.40cu.in**
Compressors on pallet	**100**

General – Configurations With KLF6.6MFT

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	RSCR	CSIR	RSCR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz	208-230 V/60 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	170-254 V	170-254 V	198-253 V	198-253 V
Approvals	VDE, UL, CCC	VDE, UL, CCC	VDE, UL, CCC	VDE, UL, CCC
Starting torque	HST	LST	HST	LST
Refrigerant	R134a	R134a	R134a	R134a
Application	MBP	MBP	MBP	MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

Application Notes

- Compressor can operate safely in LBP, no official third-party approval yet
- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
KLF6.6MFT

Sales code:
106G2701

Compressor Design

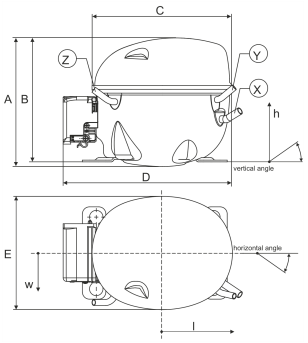
Oil type	**POE**	Winding resistance main	**8.4 Ohm**
Oil viscosity	**9,7cSt**	Winding resistance aux	**11.9 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,580 cm3 / 53.43fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

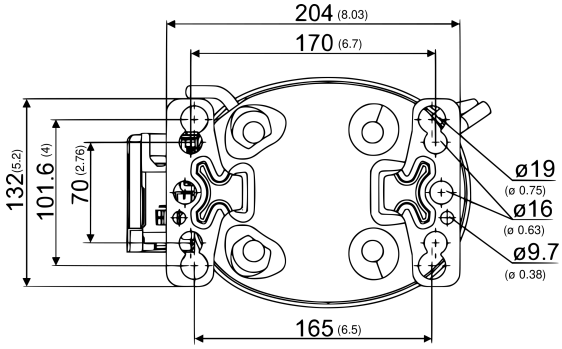
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



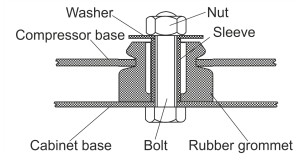
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

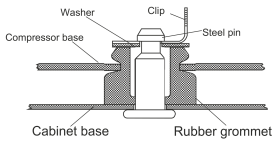


Dimensions in mm [in]

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
KLF6.6MFT Configuration 1

Sales code:
106G2701

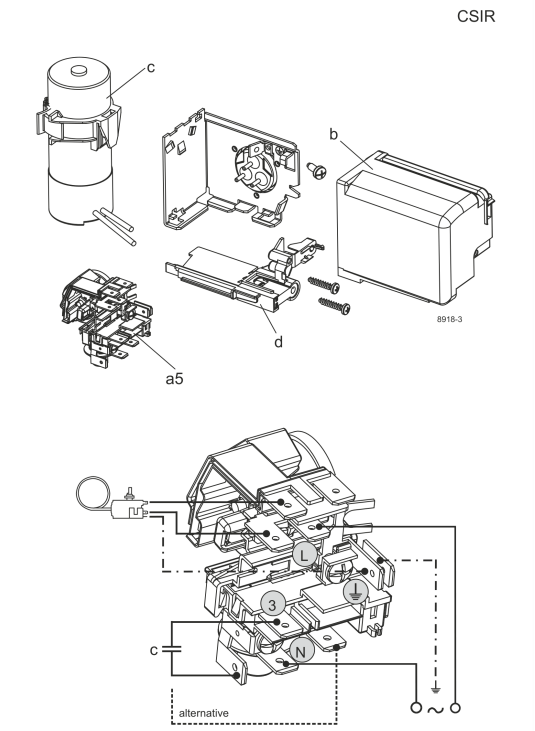
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**170-254 V**
Starting torque	**HST**
Approvals	**VDE, UL, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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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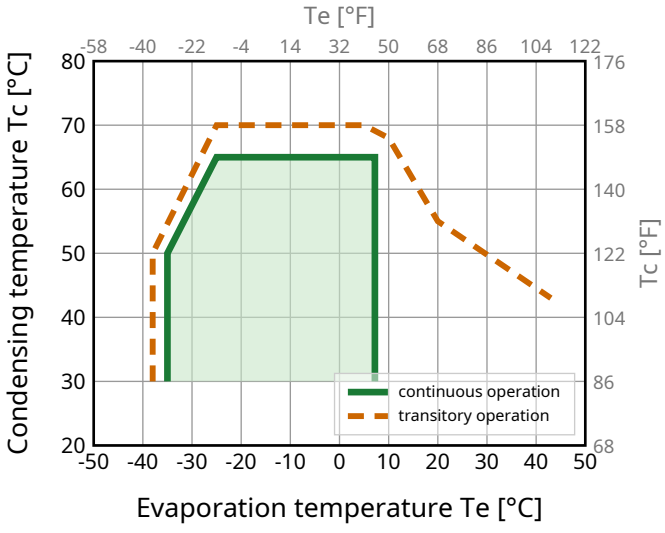
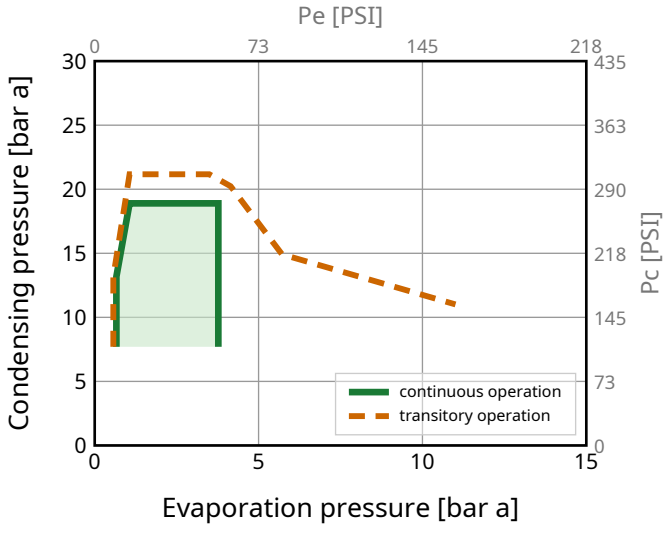
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model Sales code:

KLF6.6MFT Configuration 1 **106G2701**

Standard Conditions

R134a, 200 V/50 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	**187**	637	161	**1.35**	4.61	138	1.27	3.62	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**136**	466	117	**1.04**	3.57	131	1.25	3.25	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**93**	318	80	**1.02**	3.47	92	1.17	2.04	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**400**	1366	344	**1.92**	6.55	209	1.49	8.72	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**310**	1057	266	**1.58**	5.40	196	1.45	7.47	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**348**	1187	299	**1.95**	6.64	179	1.39	8.11	**EN12900 MBP**

Performance Tables

R134a, 200 V/50 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]
-30	-22	**119**	405	102	**1.09**	3.72	109	1.20	2.56
-20	-4	**215**	733	185	**1.49**	5.07	144	1.28	4.66
-10	14	**360**	1229	310	**2.02**	6.88	179	1.39	7.87
0	32	**563**	1920	484	**2.64**	9.01	213	1.51	12.42
7.2	45	**748**	2551	643	**3.13**	10.70	238	1.60	16.66

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

-30	-22	**99**	338	85	**0.92**	3.14	108	1.19	2.36
-20	-4	**183**	626	158	**1.20**	4.09	153	1.31	4.39
-10	14	**310**	1057	266	**1.58**	5.40	196	1.45	7.47
0	32	**486**	1657	418	**2.04**	6.98	238	1.60	11.84
7.2	45	**647**	2207	556	**2.42**	8.25	267	1.72	15.94

Model
KLF6.6MFT Configuration 2

Sales code:
106G2701

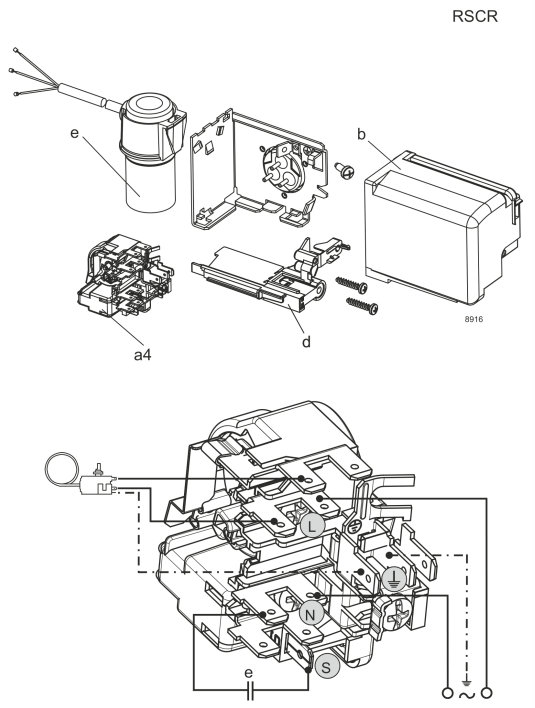
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**170-254 V**
Starting torque	**LST**
Approvals	**VDE, UL, CCC**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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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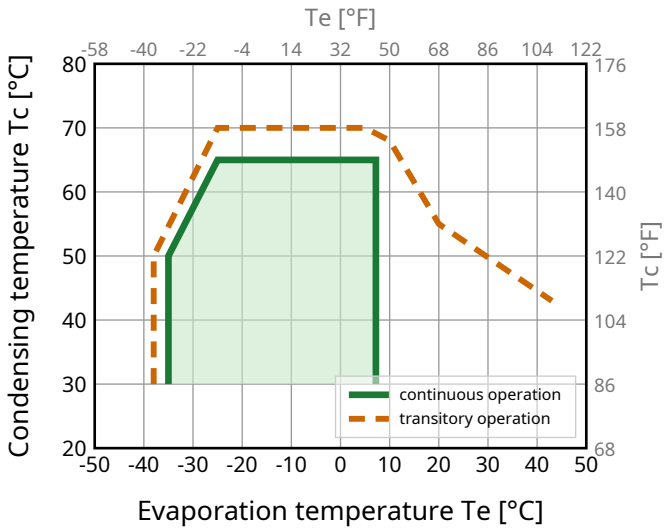
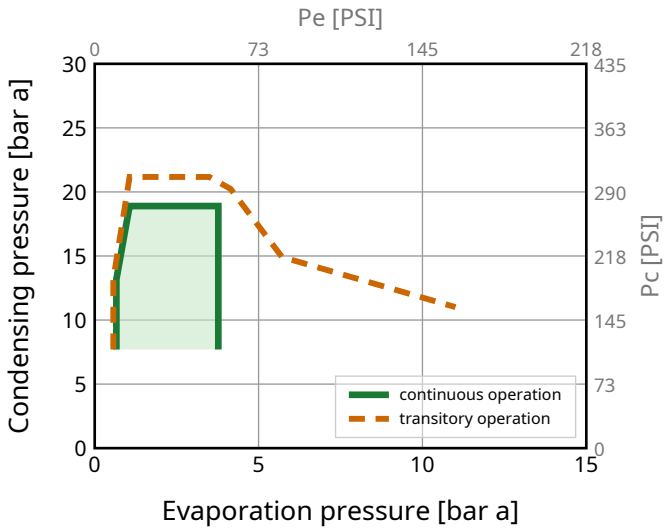
Components
a4 DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250
e run capacitor (5µF, 6.3mm) 117-7191
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
a4 ZAS1 (PTC,4.8mm, T0377/L6 - S1) 103N0252
e run capacitor (5µF, 4.8mm) 117-7190
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model

KLF6.6MFT Configuration 2

Sales code:

106G2701

Standard Conditions

R134a, 200 V/50 Hz, RSCR, 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	**187**	638	161	**1.42**	4.86	131	0.92	3.63	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**137**	466	118	**1.10**	3.76	124	0.90	3.26	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**93**	318	80	**1.08**	3.68	86	0.78	2.04	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**401**	1369	345	**2.02**	6.90	198	1.19	8.74	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**310**	1059	267	**1.67**	5.69	186	1.14	7.49	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**348**	1189	300	**2.05**	6.99	170	1.07	8.13	**EN12900 MBP**

Performance Tables

R134a, 200 V/50 Hz, RSCR, 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]
-30	-22	**119**	406	102	**1.15**	3.92	104	0.83	2.57
-20	-4	**215**	734	185	**1.56**	5.34	137	0.94	4.66
-10	14	**361**	1232	310	**2.12**	7.24	170	1.07	7.88
0	32	**564**	1925	485	**2.78**	9.50	203	1.21	12.45
7.2	45	**750**	2558	645	**3.31**	11.29	226	1.31	16.71

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

-30	-22	**99**	339	85	**0.97**	3.32	102	0.82	2.36
-20	-4	**184**	627	158	**1.26**	4.31	145	0.97	4.39
-10	14	**310**	1059	267	**1.67**	5.69	186	1.14	7.49
0	32	**487**	1661	419	**2.16**	7.36	226	1.31	11.87
7.2	45	**649**	2214	558	**2.56**	8.73	254	1.44	15.99

Model
KLF6.6MFT Configuration 3

Sales code:
106G2701

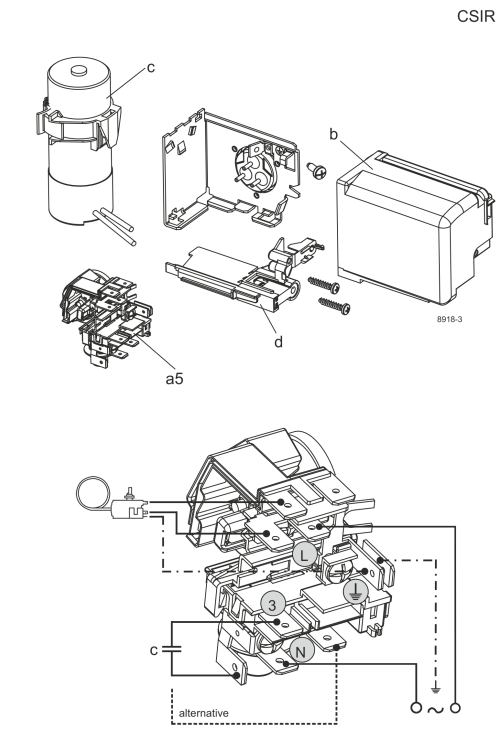
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**VDE, UL, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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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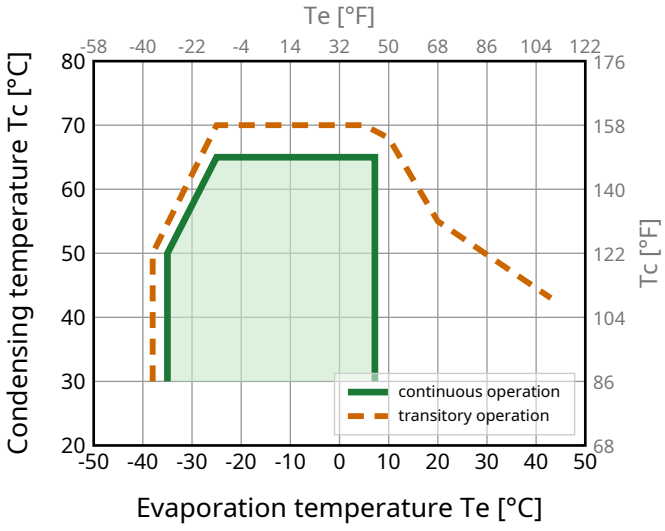
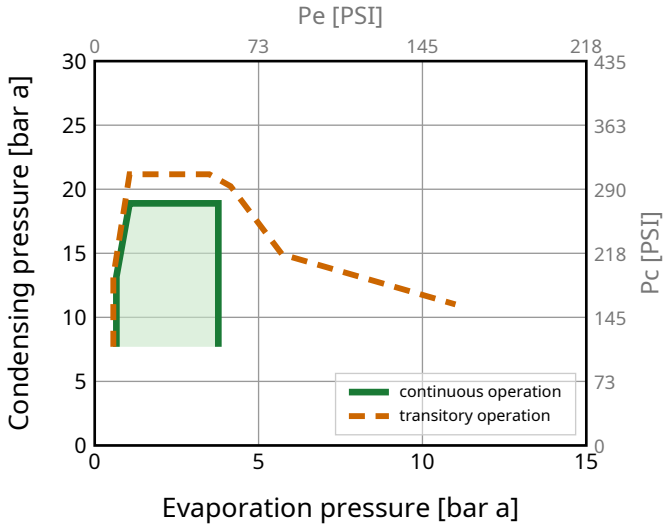
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model Sales code:

KLF6.6MFT Configuration 3 **106G2701**

Standard Conditions

R134a, 208 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	**221**	754	190	**1.37**	4.69	161	1.23	4.29	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**161**	550	139	**1.05**	3.59	153	1.21	3.85	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**109**	371	93	**1.04**	3.56	104	1.11	2.38	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**474**	1616	407	**1.95**	6.65	243	1.48	10.31	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**367**	1254	316	**1.61**	5.51	228	1.43	8.86	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**406**	1386	349	**1.93**	6.58	211	1.37	9.47	**EN12900 MBP**

Performance Tables

R134a, 208 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]
-30	-22	**138**	469	118	**1.11**	3.80	124	1.14	2.97
-20	-4	**250**	853	215	**1.50**	5.13	166	1.24	5.42
-10	14	**421**	1435	362	**2.00**	6.81	211	1.37	9.19
0	32	**657**	2242	565	**2.56**	8.75	256	1.52	14.50
7.2	45	**872**	2977	750	**3.01**	10.26	290	1.64	19.44

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

-30	-22	**115**	394	99	**0.90**	3.06	129	1.15	2.74
-20	-4	**218**	743	187	**1.22**	4.18	178	1.28	5.21
-10	14	**367**	1254	316	**1.61**	5.51	228	1.43	8.86
0	32	**572**	1951	492	**2.06**	7.02	278	1.60	13.94
7.2	45	**757**	2583	651	**2.41**	8.22	314	1.73	18.66

Model
KLF6.6MFT Configuration 4

Sales code:
106G2701

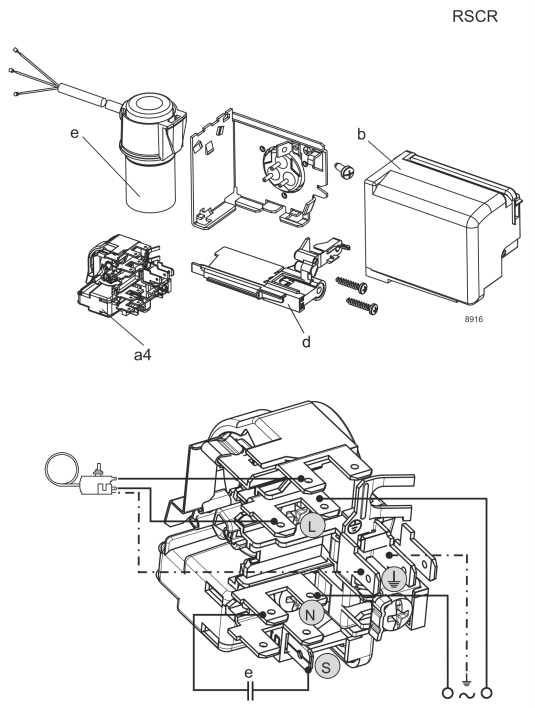
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**198-253 V**
Starting torque	**LST**
Approvals	**VDE, UL, CCC**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13.4 A**
RLA (rated load amps / 1s/ U(N))	**1.8 A**
Cut in current (U(N))	**12.3 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

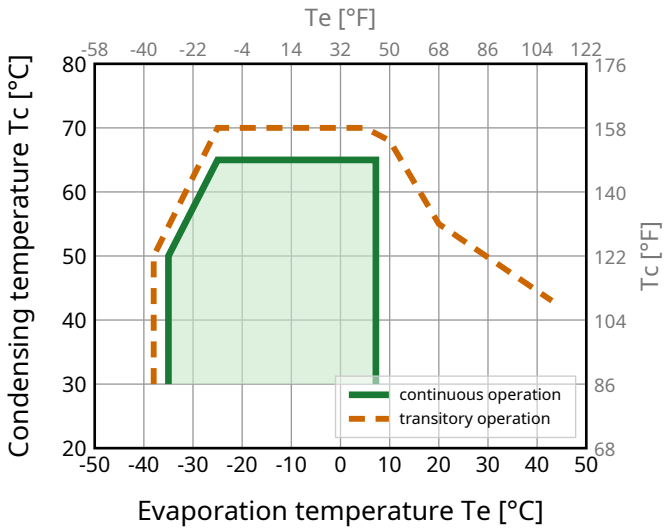


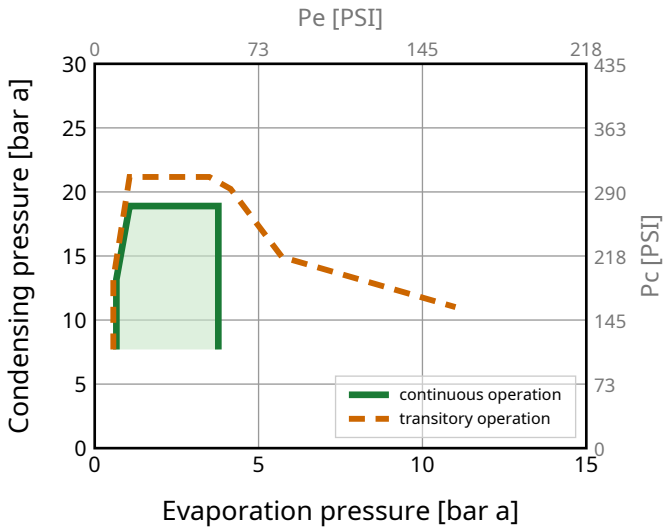
View full size

Components
a4 DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250
e run capacitor (5µF, 6.3mm) 117-7191
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
a4 ZAS1 (PTC,4.8mm, T0377/L6 - S1) 103N0252
e run capacitor (5µF, 4.8mm) 117-7190
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model Sales code:

KLF6.6MFT Configuration 4 **106G2701**

Standard Conditions

R134a, 208 V/60 Hz, RSCR, 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	**221**	755	190	**1.44**	4.91	154	0.80	4.29	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**162**	551	139	**1.10**	3.76	147	0.77	3.85	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**109**	371	93	**1.08**	3.68	101	0.60	2.38	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**475**	1619	408	**2.05**	7.00	231	1.10	10.33	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**368**	1256	317	**1.70**	5.79	217	1.05	8.88	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**407**	1389	350	**2.03**	6.92	201	0.98	9.49	**EN12900 MBP**

Performance Tables

R134a, 208 V/60 Hz, RSCR, 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]
-30	-22	**138**	469	118	**1.16**	3.96	119	0.67	2.97
-20	-4	**250**	855	215	**1.57**	5.37	159	0.82	5.43
-10	14	**422**	1438	362	**2.10**	7.17	201	0.98	9.21
0	32	**659**	2247	566	**2.71**	9.24	243	1.16	14.53
7.2	45	**875**	2985	752	**3.18**	10.86	275	1.29	19.50

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

-30	-22	**116**	394	99	**0.94**	3.19	123	0.68	2.75
-20	-4	**218**	744	188	**1.28**	4.38	170	0.86	5.22
-10	14	**368**	1256	317	**1.70**	5.79	217	1.05	8.88
0	32	**573**	1956	493	**2.18**	7.42	263	1.24	13.98
7.2	45	**759**	2591	653	**2.56**	8.72	297	1.38	18.72