Model
KLF6.6CNT

Sales code:
106H2702

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**200g / 7.05oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**6.60 cm3 / 0.40cu.in**
Compressors on pallet	**100**

General – Configurations With KLF6.6CNT

–	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	187-254 V	187-254 V	198-253 V	198-253 V
Approvals	UL, CCC, CB	UL, CCC, CB	UL, CCC, CB, KC	UL, CCC, CB, KC
Starting torque	HST	LST	HST	LST
Refrigerant	R290	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

Application Notes

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

Model
KLF6.6CNT

Sales code:
106H2702

Compressor Design

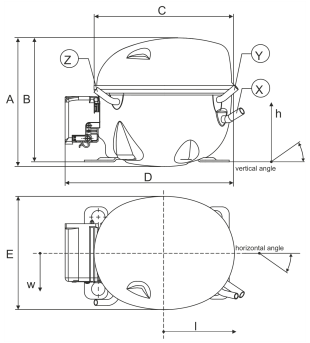
Oil type	**POE**	Winding resistance main	**8.4 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**11.9 Ohm**
Oil quantity	**170 / 5.75fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,583 cm3 / 53.53fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

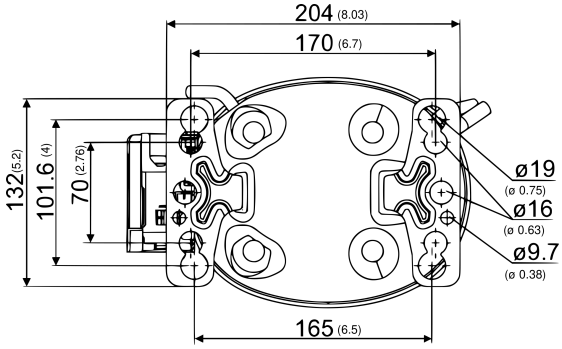
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



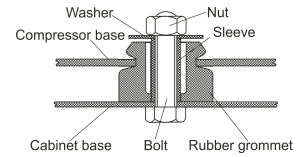
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

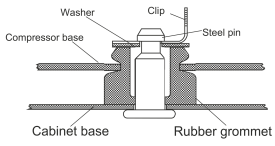


Dimensions in mm [in]

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
KLF6.6CNT Configuration 1

Sales code:
106H2702

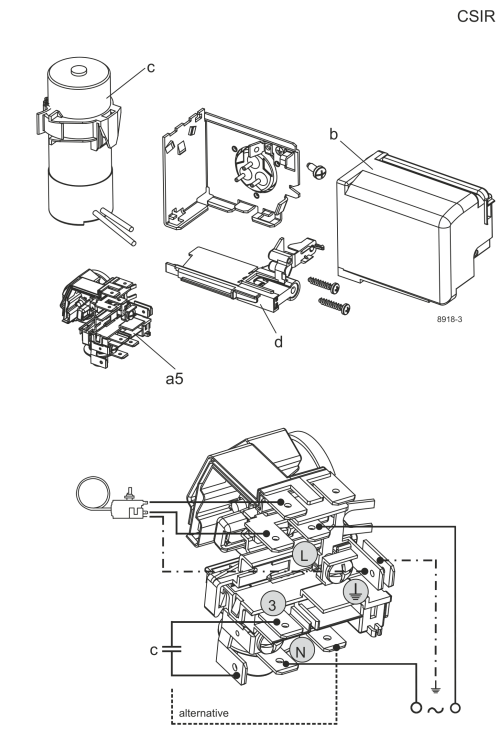
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 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

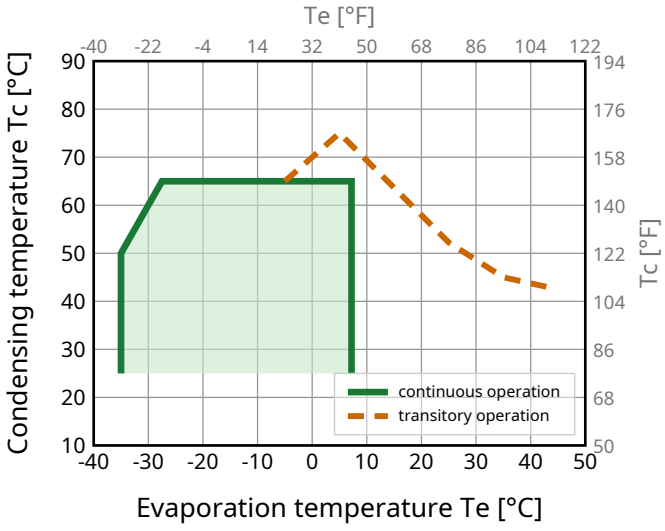


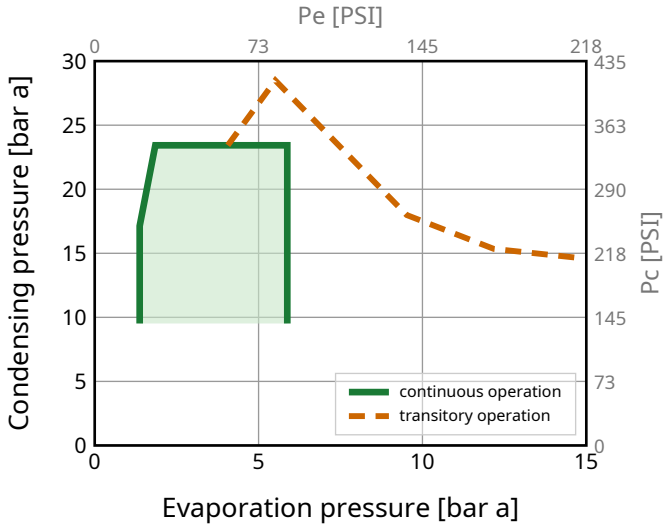
View full size

Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5003
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
KLF6.6CNT Configuration 1

Sales code:
106H2702

Standard Conditions

R290, 220 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	**335**	1144	288	**1.47**	5.03	228	1.60	3.41	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**250**	851	215	**1.14**	3.88	219	1.58	3.13	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**179**	609	154	**1.20**	4.08	149	1.42	2.05	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**585**	1996	503	**1.93**	6.59	303	1.84	6.70	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**468**	1596	402	**1.60**	5.47	292	1.81	5.95	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**517**	1763	444	**2.01**	6.84	258	1.69	6.36	**EN12900 MBP**

Performance Tables

R290, 220 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]
-35	-31	**178**	607	153	**1.12**	3.82	159	1.44	2.00
-30	-22	**233**	795	200	**1.28**	4.37	182	1.48	2.63
-20	-4	**366**	1248	315	**1.63**	5.58	224	1.59	4.16
-10	14	**537**	1833	462	**2.09**	7.12	258	1.69	6.17
0	32	**758**	2586	652	**2.70**	9.20	281	1.77	8.81
7.2	45	**953**	3251	819	**3.28**	11.20	290	1.80	11.21

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

-35	-31	**142**	483	122	**0.86**	2.95	164	1.44	1.76
-30	-22	**193**	657	166	**1.00**	3.42	192	1.50	2.41
-20	-4	**313**	1069	270	**1.28**	4.36	245	1.65	3.94
-10	14	**468**	1596	402	**1.60**	5.47	292	1.81	5.95
0	32	**666**	2273	573	**2.02**	6.89	330	1.94	8.59
7.2	45	**842**	2872	724	**2.40**	8.20	350	2.02	11.00

Model
KLF6.6CNT Configuration 2

Sales code:
106H2702

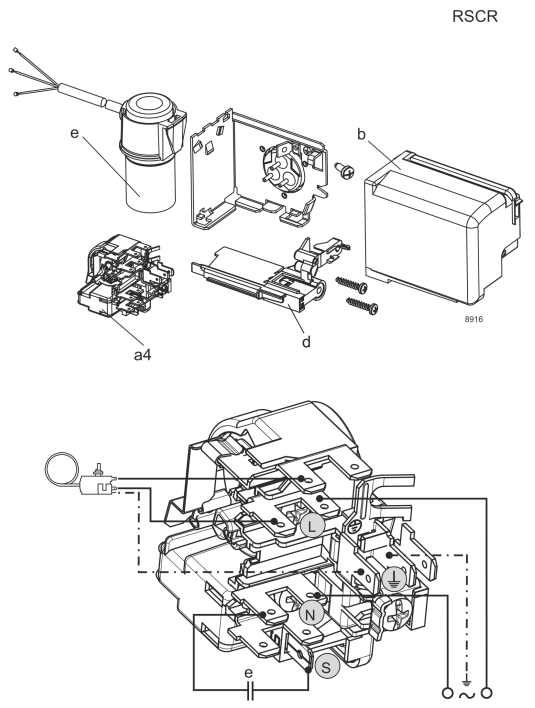
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**UL, CCC, CB**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 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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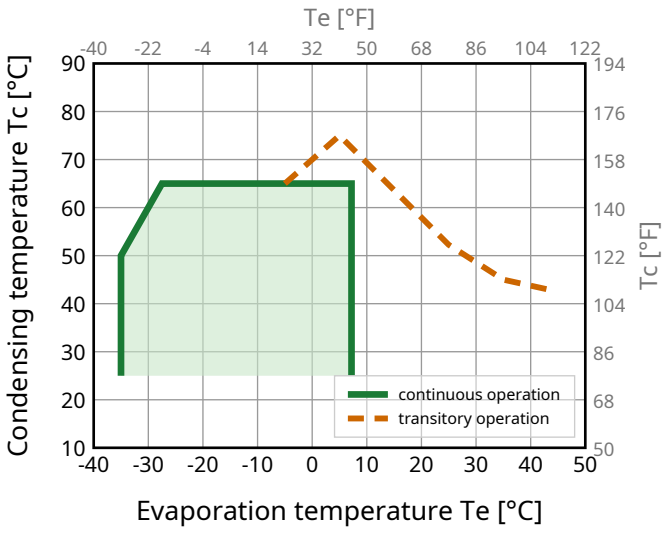
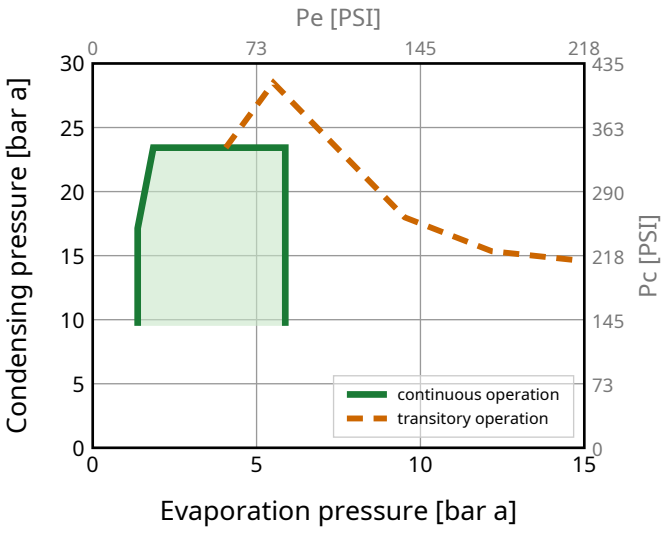
Components
a4 DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250
e run capacitor (5µF, 6,3mm) 117-7155
e1 retaining clamp 103N0535
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF6.6CNT Configuration 2

Sales code:

106H2702

Standard Conditions

R290, 220 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	**339**	1155	291	**1.53**	5.24	221	1.43	3.44	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**252**	860	217	**1.18**	4.04	213	1.41	3.16	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**180**	616	155	**1.25**	4.25	145	1.25	2.07	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**591**	2016	508	**2.01**	6.86	294	1.68	6.76	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**472**	1612	406	**1.67**	5.69	283	1.64	6.01	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**522**	1781	449	**2.09**	7.13	250	1.52	6.42	**EN12900 MBP**

Performance Tables

R290, 220 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]
-35	-31	**180**	613	155	**1.17**	3.98	154	1.27	2.02
-30	-22	**235**	803	202	**1.33**	4.55	176	1.31	2.66
-20	-4	**369**	1260	318	**1.70**	5.80	217	1.42	4.20
-10	14	**543**	1851	467	**2.17**	7.41	250	1.52	6.23
0	32	**765**	2612	658	**2.81**	9.58	273	1.60	8.90
7.2	45	**962**	3283	827	**3.42**	11.66	282	1.63	11.32

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

-35	-31	**143**	488	123	**0.90**	3.07	159	1.26	1.78
-30	-22	**195**	664	167	**1.04**	3.56	186	1.33	2.43
-20	-4	**317**	1080	272	**1.33**	4.54	238	1.48	3.98
-10	14	**472**	1612	406	**1.67**	5.69	283	1.64	6.01
0	32	**673**	2295	579	**2.10**	7.18	320	1.77	8.68
7.2	45	**850**	2901	731	**2.50**	8.54	340	1.85	11.11

Model
KLF6.6CNT Configuration 3

Sales code:
106H2702

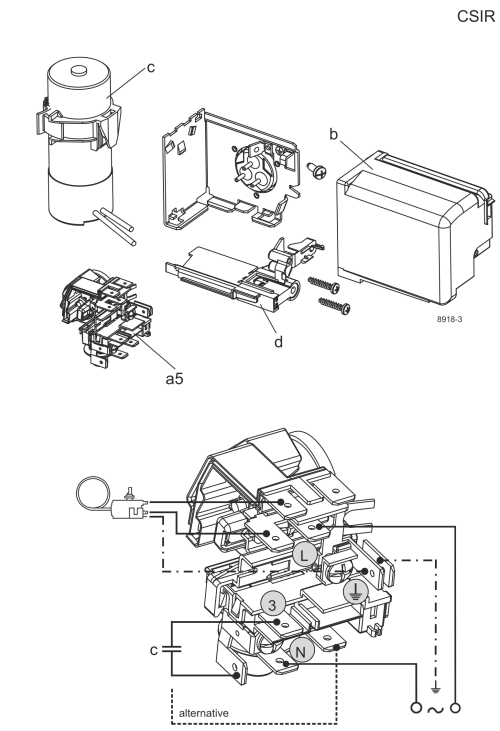
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB, KC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 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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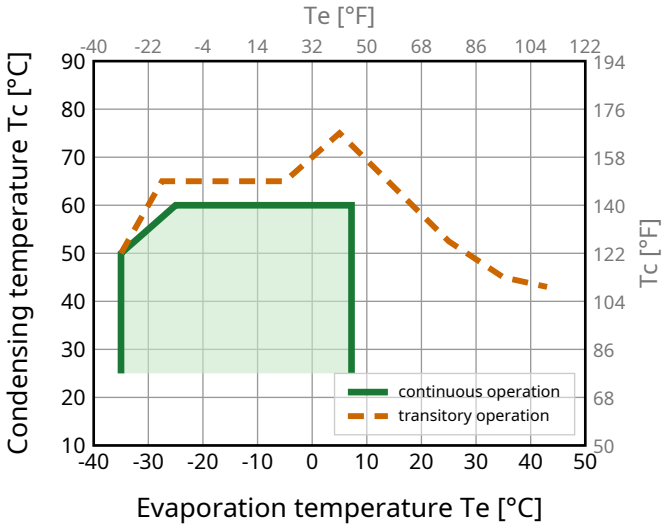
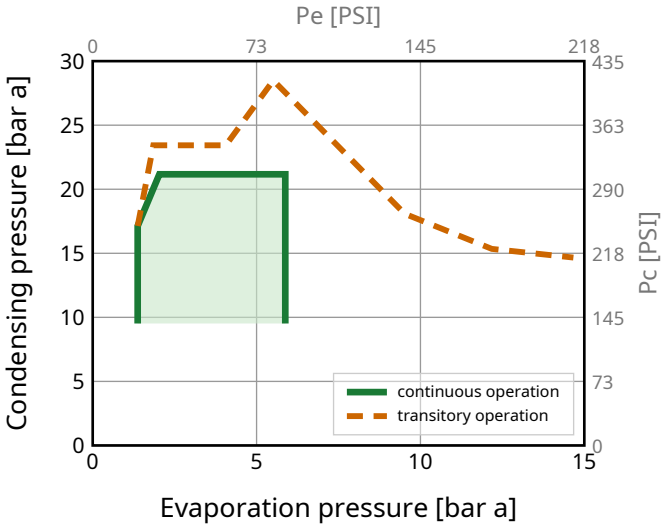
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5003
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF6.6CNT Configuration 3

Sales code:
106H2702

Standard Conditions

R290, 220 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	**410**	1398	352	**1.56**	5.34	262	1.71	4.16	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**306**	1045	263	**1.22**	4.15	252	1.68	3.84	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**217**	740	187	**1.22**	4.15	178	1.49	2.49	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**702**	2396	604	**1.99**	6.79	353	2.01	8.04	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**562**	1917	483	**1.66**	5.67	338	1.96	7.14	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**616**	2102	530	**2.01**	6.86	306	1.85	7.58	**EN12900 MBP**

Performance Tables

R290, 220 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]
-35	-31	**210**	717	181	**1.13**	3.87	185	1.51	2.37
-30	-22	**278**	948	239	**1.29**	4.41	215	1.58	3.14
-20	-4	**436**	1489	375	**1.64**	5.60	266	1.72	4.96
-10	14	**640**	2185	551	**2.09**	7.13	306	1.85	7.35
0	32	**908**	3099	781	**2.69**	9.19	337	1.95	10.56
7.2	45	**1151**	3927	990	**3.25**	11.11	354	2.01	13.54

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

-35	-31	**177**	604	152	**0.96**	3.29	184	1.50	2.20
-30	-22	**239**	815	205	**1.09**	3.73	219	1.59	2.98
-20	-4	**381**	1300	328	**1.35**	4.60	282	1.77	4.79
-10	14	**562**	1917	483	**1.66**	5.67	338	1.96	7.14
0	32	**800**	2729	688	**2.07**	7.06	387	2.13	10.31
7.2	45	**1017**	3470	875	**2.44**	8.32	417	2.25	13.29

Model
KLF6.6CNT Configuration 4

Sales code:
106H2702

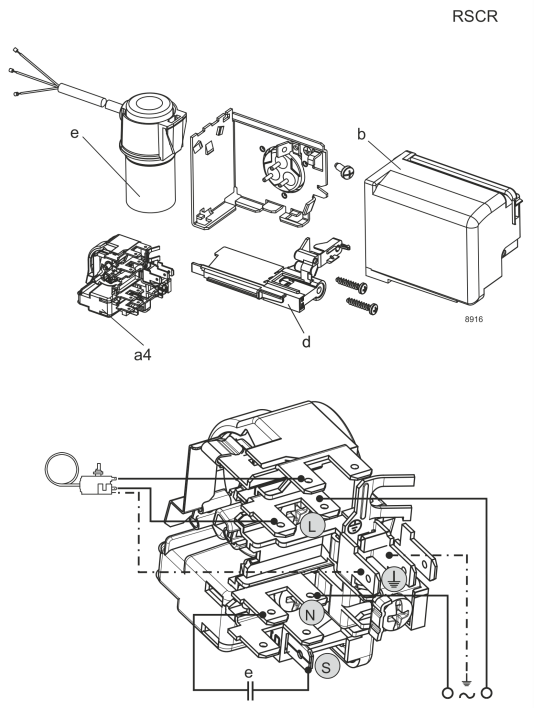
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**LST**
Approvals	**UL, CCC, CB, KC**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13.2 A**
RLA (rated load amps / 1s/ U(N))	**2.1 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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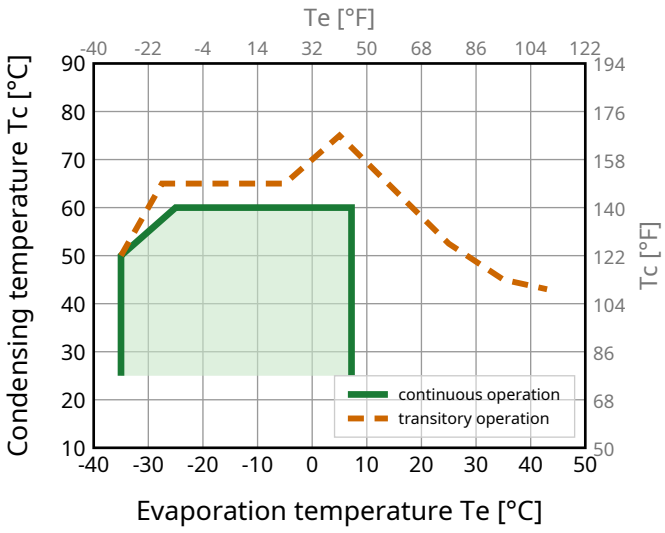
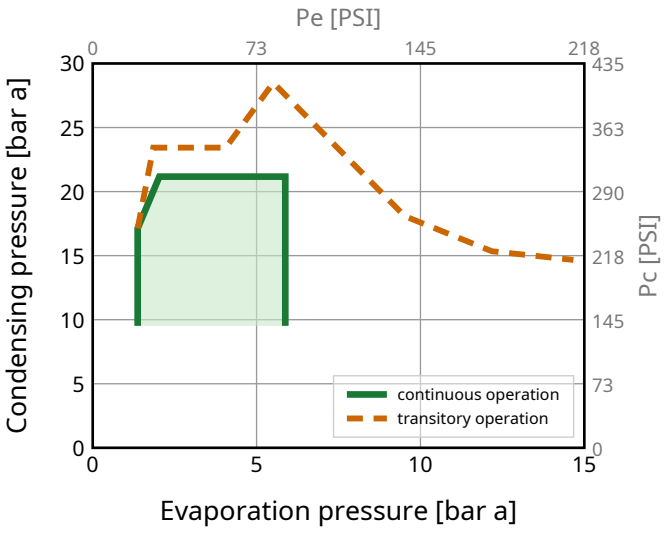
Components
a4 DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250
e run capacitor (5µF, 6,3mm) 117-7155
e1 retaining clamp 103N0535
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF6.6CNT Configuration 4

Sales code:

106H2702

Standard Conditions

R290, 220 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	**414**	1412	356	**1.64**	5.60	252	1.56	4.20	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**309**	1055	266	**1.28**	4.36	242	1.53	3.88	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**219**	748	188	**1.28**	4.35	172	1.34	2.51	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**709**	2420	610	**2.09**	7.13	339	1.86	8.12	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**567**	1936	488	**1.74**	5.95	325	1.81	7.22	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**622**	2123	535	**2.11**	7.20	295	1.70	7.66	**EN12900 MBP**

Performance Tables

R290, 220 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]
-35	-31	**212**	724	182	**1.19**	4.06	178	1.36	2.39
-30	-22	**281**	957	241	**1.36**	4.63	207	1.43	3.17
-20	-4	**441**	1504	379	**1.72**	5.88	256	1.57	5.01
-10	14	**647**	2207	556	**2.19**	7.49	295	1.70	7.43
0	32	**917**	3130	789	**2.83**	9.65	324	1.80	10.67
7.2	45	**1162**	3966	1000	**3.42**	11.66	340	1.86	13.67

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

-35	-31	**179**	610	154	**1.01**	3.45	177	1.34	2.23
-30	-22	**241**	823	208	**1.15**	3.91	210	1.44	3.02
-20	-4	**385**	1313	331	**1.42**	4.83	272	1.62	4.84
-10	14	**567**	1936	488	**1.74**	5.95	325	1.81	7.22
0	32	**808**	2757	695	**2.17**	7.41	372	1.98	10.42
7.2	45	**1027**	3505	883	**2.56**	8.73	402	2.10	13.42