Single
Packs

Single Pack KLE6.6GFTX 220-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4761**

Position	Title	Code	Amount
1	Compressor KLE6.6GFTX	106G5703	1
2	Starting relay (QLZ-5.5A, overload protector T0377/L6)	117U7071	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5001	1
4	KL accessories	103N1060	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Model
KLE6.6GFTX

Sales code:
106G5703

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**250g / 8.82oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**6.60 cm3 / 0.40cu.in**
Compressors on pallet	**100**

General – Configurations With KLE6.6GFTX

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	187-254 V	198-253 V	187-254 V	198-253 V
Approvals	VDE, CB, UL	VDE, CB, UL	VDE, CB, UL	VDE, CB, UL
Starting torque	HST	HST	HST	HST
Refrigerant	R134a	R134a	R513A	R513A
Application	LBP+MBP+HBP	LBP+MBP	LBP+MBP+HBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	–

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)
- Good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

Model
KLE6.6GFTX

Sales code:
106G5703

Compressor Design

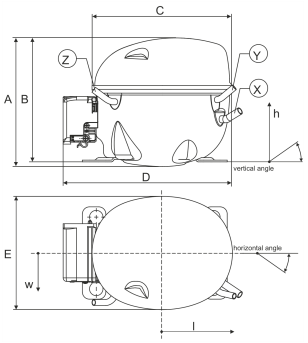
Oil type	**POE**	Winding resistance main	**8.4 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**11.9 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,510 cm3 / 51.06fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

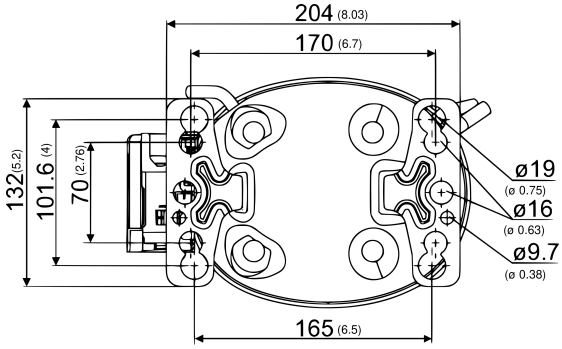
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



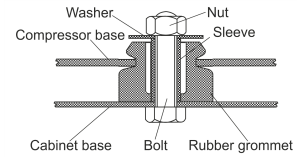
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

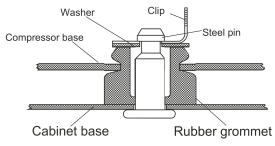


Dimensions in mm [in]

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
KLE6.6GFTX Configuration 1

Sales code:
106G5703

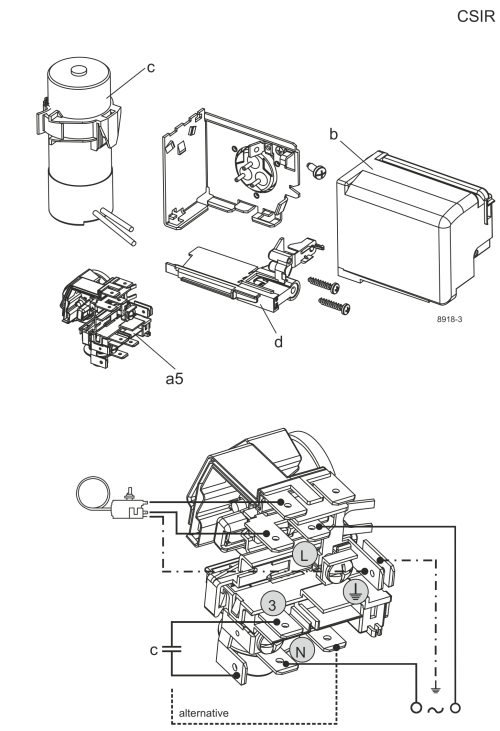
Configuration

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

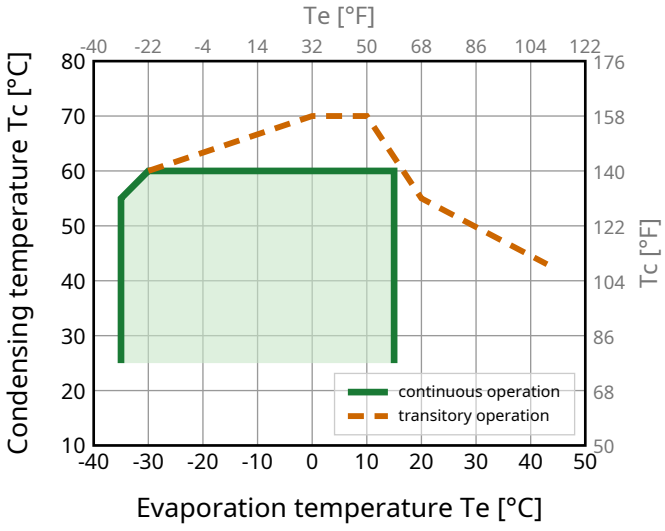


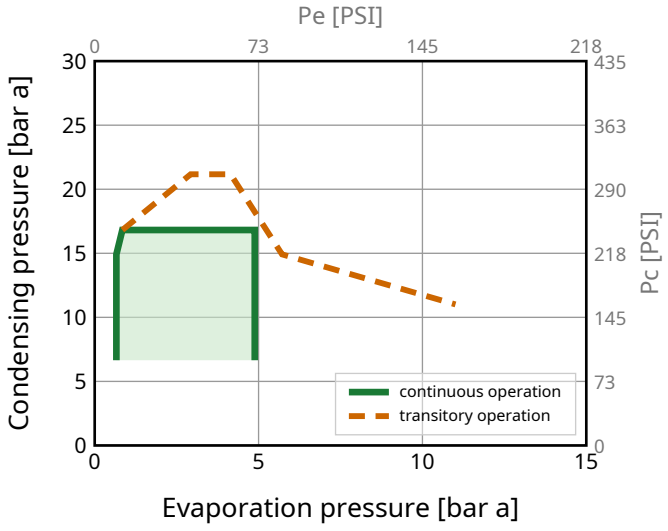
View full size

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:

KLE6.6GFTX Configuration 1 **106G5703**

Standard Conditions

R134a, 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	**189**	645	163	**1.29**	4.40	147	1.29	3.67	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**400**	1366	344	**1.85**	6.31	216	1.52	8.72	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**716**	2441	615	**2.58**	8.81	277	1.76	15.84	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**100**	339	86	**0.95**	3.23	105	1.20	2.18	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**348**	1186	299	**1.88**	6.41	185	1.41	8.11	**EN12900 MBP**
5 41	50 122	20 68	50 122	**613**	2092	527	**2.40**	8.21	255	1.67	15.38	**EN12900 HBP**

Performance Tables

R134a, 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	**94**	320	81	**0.89**	3.02	106	1.20	2.02
-30	-22	**123**	420	106	**1.03**	3.51	120	1.22	2.65
-20	-4	**216**	737	186	**1.43**	4.89	151	1.30	4.68
-10	14	**360**	1229	310	**1.95**	6.64	185	1.41	7.87
0	32	**562**	1918	483	**2.53**	8.65	222	1.54	12.40
10	50	**828**	2824	712	**3.20**	10.91	259	1.69	18.53
15	59	**987**	3367	849	**3.56**	12.16	277	1.76	22.29

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

-35	-31	**76**	259	65	**0.74**	2.54	102	1.18	1.80
-30	-22	**103**	350	88	**0.85**	2.91	120	1.22	2.44
-20	-4	**185**	630	159	**1.15**	3.93	160	1.33	4.42
-10	14	**310**	1057	267	**1.52**	5.20	203	1.47	7.47
0	32	**485**	1655	417	**1.96**	6.69	247	1.64	11.83
10	50	**716**	2444	616	**2.46**	8.40	291	1.82	17.75
15	59	**855**	2917	735	**2.74**	9.34	312	1.92	21.40

Model
KLE6.6GFTX Configuration 2

Sales code:
106G5703

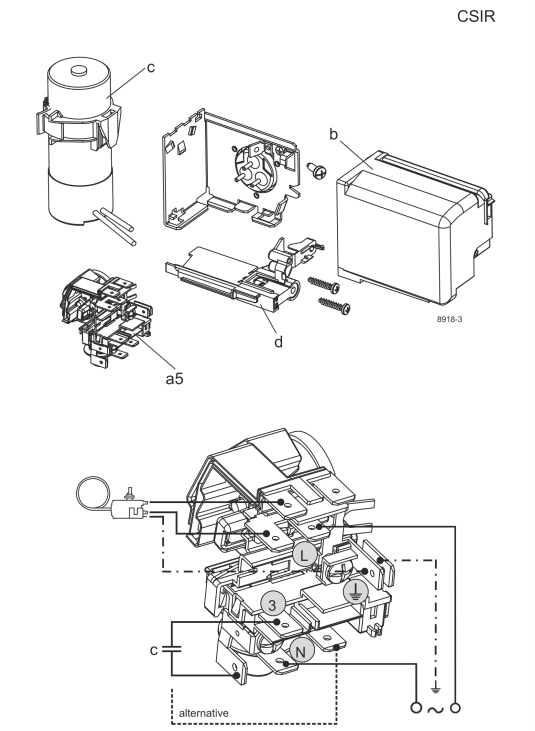
Configuration

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

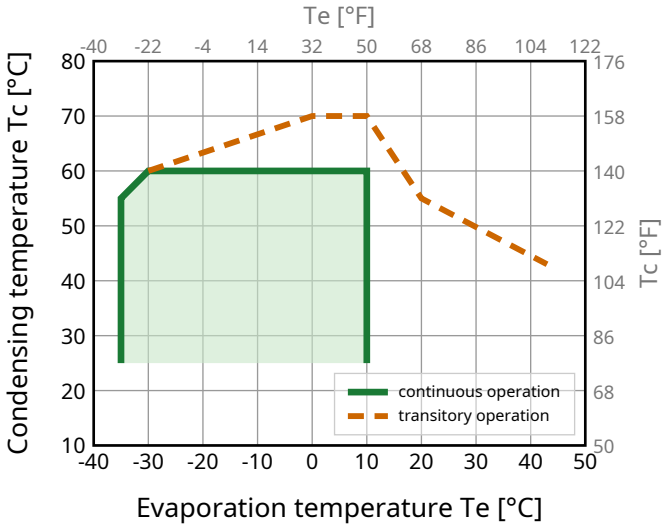


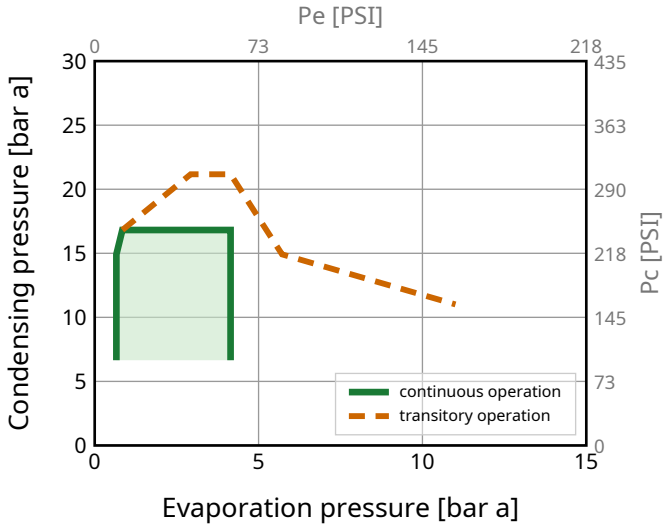
View full size

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
KLE6.6GFTX Configuration 2

Sales code:
106G5703

Standard Conditions

R134a, 230 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	**229**	781	197	**1.37**	4.68	167	1.25	4.44	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**473**	1615	407	**1.91**	6.51	248	1.50	10.31	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**838**	2859	721	**2.62**	8.95	319	1.75	18.55	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**119**	405	102	**1.09**	3.72	109	1.11	2.59	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**409**	1394	351	**1.89**	6.44	216	1.39	9.53	**EN12900 MBP**
5 41	50 122	20 68	50 122	**716**	2445	616	**2.41**	8.22	298	1.67	17.97	**EN12900 HBP**

Performance Tables

R134a, 230 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	**111**	380	96	**1.04**	3.53	108	1.11	2.40
-30	-22	**148**	507	128	**1.13**	3.87	131	1.16	3.20
-20	-4	**258**	880	222	**1.48**	5.04	174	1.26	5.59
-10	14	**423**	1444	364	**1.95**	6.67	216	1.39	9.24
0	32	**656**	2237	564	**2.52**	8.59	260	1.54	14.46
10	50	**966**	3296	831	**3.12**	10.65	310	1.72	21.62
15	59	**1154**	3937	992	**3.42**	11.69	337	1.81	26.07

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

-35	-31	**86**	294	74	**0.82**	2.80	105	1.10	2.04
-30	-22	**123**	419	106	**0.93**	3.16	133	1.16	2.92
-20	-4	**223**	761	192	**1.21**	4.13	184	1.29	5.33
-10	14	**368**	1257	317	**1.58**	5.39	233	1.44	8.88
0	32	**570**	1945	490	**2.02**	6.88	283	1.62	13.90
10	50	**839**	2862	721	**2.49**	8.51	336	1.82	20.78
15	59	**1002**	3418	862	**2.74**	9.35	366	1.93	25.07

Model
KLE6.6GFTX Configuration 3

Sales code:
106G5703

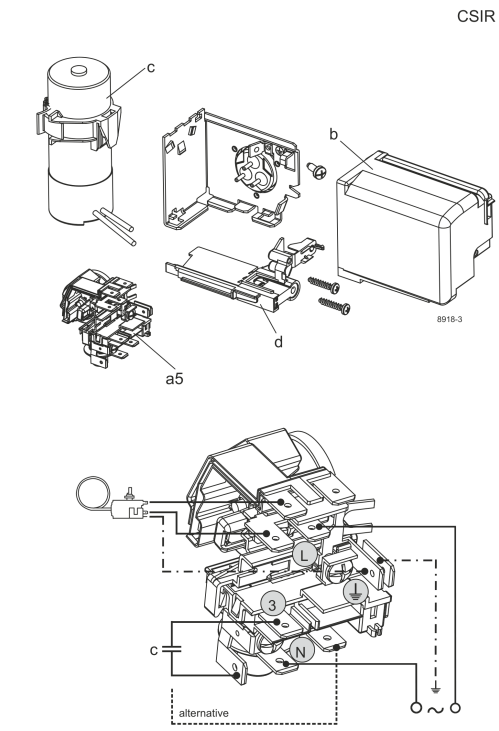
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, CB, UL**
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

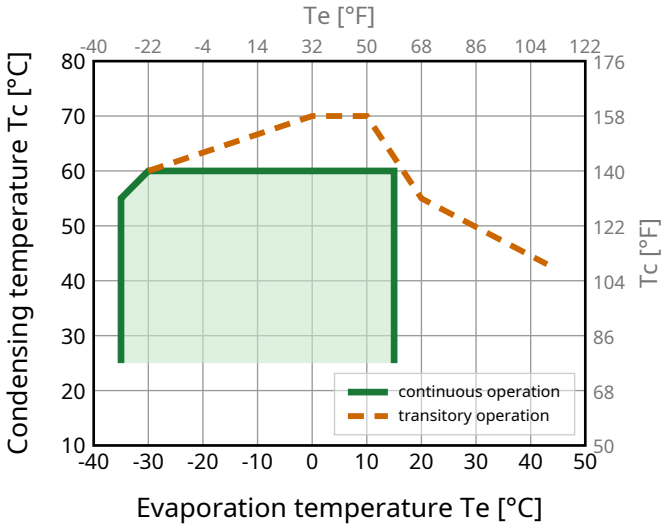


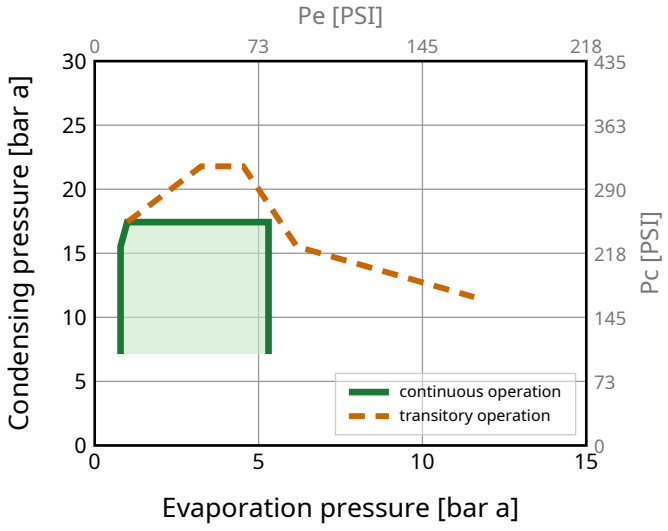
View full size

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
KLE6.6GFTX Configuration 3

Sales code:
106G5703

Standard Conditions

R513A, 240 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	**209**	713	180	**1.32**	4.52	158	1.09	4.58	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**412**	1407	355	**1.83**	6.26	225	1.29	10.28	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**721**	2459	620	**2.56**	8.75	281	1.48	18.31	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**104**	355	89	**0.97**	3.31	107	0.97	2.62	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**355**	1211	305	**1.85**	6.30	192	1.19	9.61	**EN12900 MBP**
5 41	50 122	20 68	50 122	**600**	2048	516	**2.33**	7.93	258	1.40	17.70	**EN12900 HBP**

Performance Tables

R513A, 240 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	**97**	331	83	**0.90**	3.06	108	0.97	2.38
-30	-22	**135**	461	116	**1.07**	3.66	126	1.01	3.33
-20	-4	**234**	797	201	**1.46**	4.99	160	1.09	5.80
-10	14	**372**	1271	320	**1.94**	6.61	192	1.19	9.32
0	32	**564**	1925	485	**2.50**	8.54	225	1.29	14.29
10	50	**822**	2804	707	**3.14**	10.72	262	1.40	21.17
15	59	**979**	3341	842	**3.48**	11.88	281	1.45	25.49

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

-35	-31	**73**	249	63	**0.69**	2.36	105	0.97	2.01
-30	-22	**108**	370	93	**0.84**	2.88	129	1.02	2.99
-20	-4	**196**	670	169	**1.14**	3.89	172	1.13	5.46
-10	14	**317**	1083	273	**1.49**	5.09	213	1.25	8.90
0	32	**484**	1651	416	**1.91**	6.52	253	1.39	13.76
10	50	**709**	2419	610	**2.40**	8.20	295	1.53	20.54
15	59	**848**	2892	729	**2.67**	9.11	317	1.60	24.85

Model
KLE6.6GFTX Configuration 4

Sales code:
106G5703

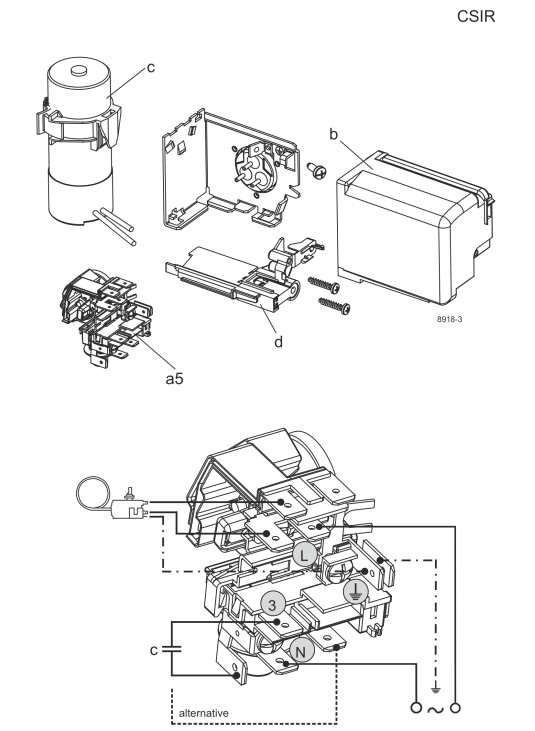
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**VDE, CB, UL**
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

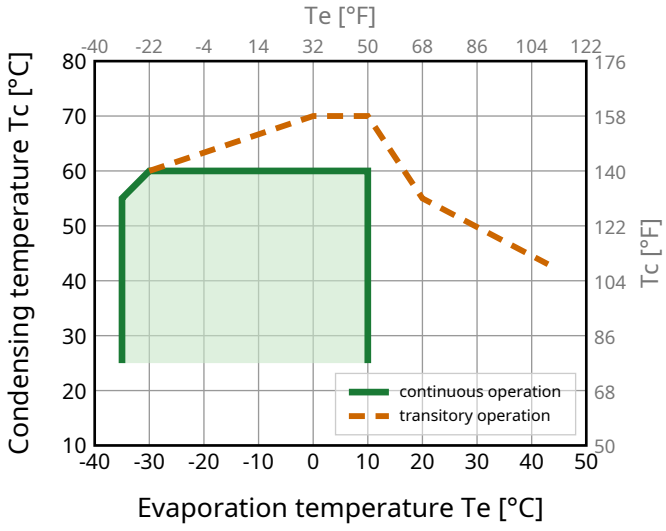


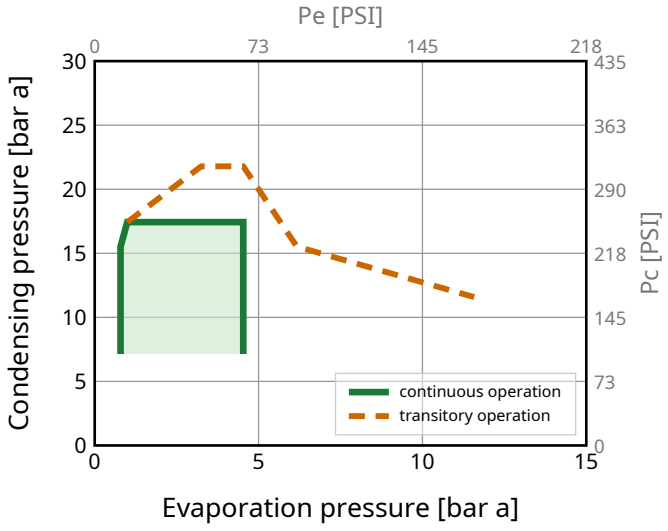
View full size

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

KLE6.6GFTX Configuration 4

Sales code:

106G5703

Standard Conditions

R513A, 230 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	**252**	861	217	**1.41**	4.81	179	1.28	5.52	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**490**	1673	422	**1.89**	6.46	259	1.56	12.22	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**862**	2940	741	**2.65**	9.02	326	1.82	21.89	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**127**	434	109	**1.06**	3.62	120	1.08	3.20	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**422**	1440	363	**1.91**	6.52	221	1.43	11.43	**EN12900 MBP**
5 41	50 122	20 68	50 122	**718**	2448	617	**2.40**	8.19	299	1.71	21.16	**EN12900 HBP**

Performance Tables

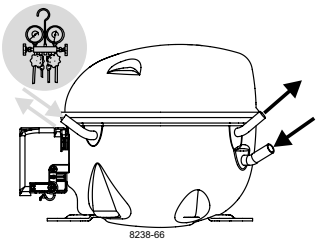
R513A, 230 V/60 Hz, CSIR, fan 3m/s

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	**121**	411	104	**0.99**	3.37	122	1.08	2.97
-30	-22	**164**	559	141	**1.16**	3.95	142	1.15	4.04
-20	-4	**278**	949	239	**1.53**	5.24	181	1.28	6.90
-10	14	**443**	1511	381	**2.00**	6.84	221	1.43	11.08
0	32	**674**	2299	579	**2.59**	8.82	260	1.57	17.07
10	50	**986**	3366	848	**3.29**	11.23	300	1.72	25.41
15	59	**1178**	4021	1014	**3.69**	12.60	319	1.79	30.68

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

-35	-31	**96**	327	82	**0.78**	2.66	123	1.09	2.64
-30	-22	**135**	462	116	**0.92**	3.14	147	1.17	3.73
-20	-4	**236**	804	203	**1.20**	4.11	196	1.33	6.54
-10	14	**377**	1287	324	**1.54**	5.27	244	1.51	10.59
0	32	**576**	1967	496	**1.97**	6.71	293	1.69	16.39
10	50	**849**	2896	730	**2.48**	8.48	342	1.88	24.59
15	59	**1017**	3471	875	**2.78**	9.50	366	1.97	29.83



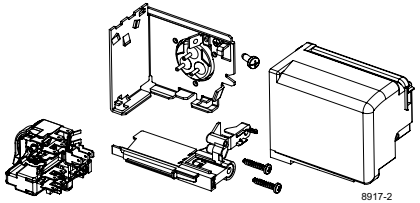
KL Compressors

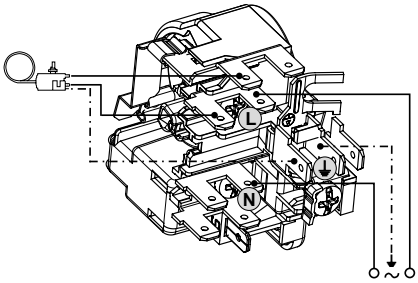
SECOP

Keep electrical equipment clear from oil, chemicals, and water

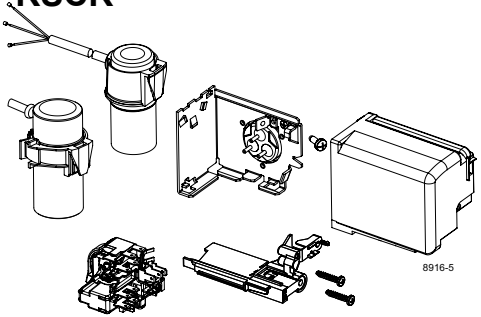
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

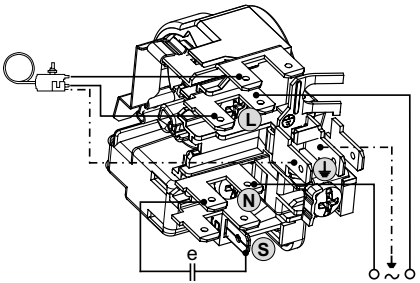
RSIR



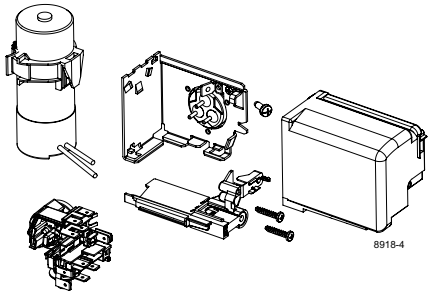


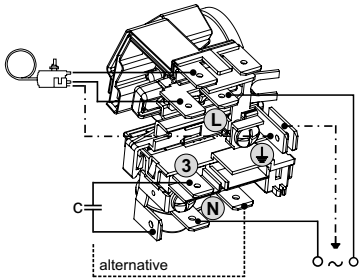
RSCR

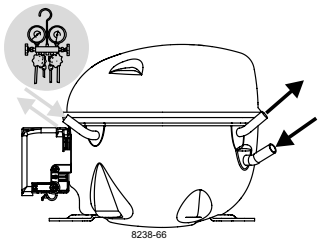




CSIR







KL Compressors

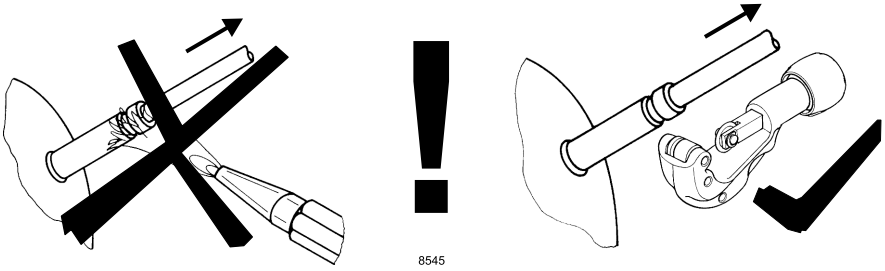
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**