Single
Packs

Single Pack KLE7.7GFTX 220-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4762**

Position	Title	Code	Amount
1	Compressor KLE7.7GFTX	106G5803	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

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Model
KLE7.7GFTX

Sales code:
106G5803

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**250g / 8.82oz**
Weight	**9.60 kg / 21.16lbs**
Displacement	**7.70 cm3 / 0.47cu.in**
Compressors on pallet	**100**

General – Configurations With KLE7.7GFTX

–	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	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

KLE7.7GFTX

Sales code:

106G5803

Compressor Design

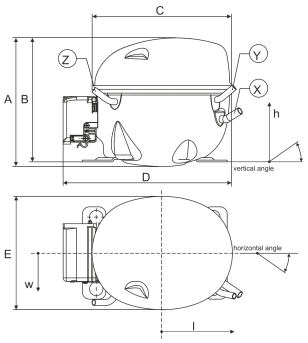
Oil type	**POE**	Winding resistance main	**8.4 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**11.9 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,505 cm3 / 50.89fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

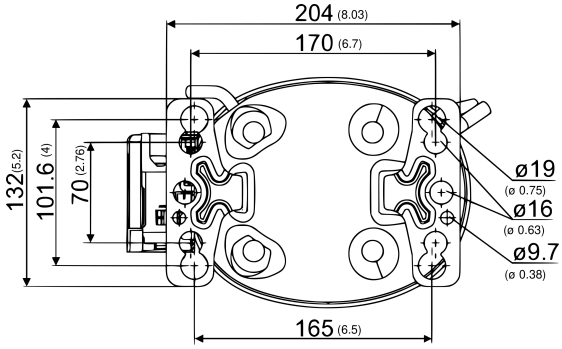
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



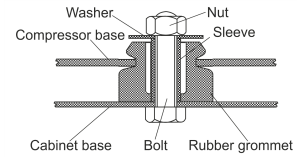
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

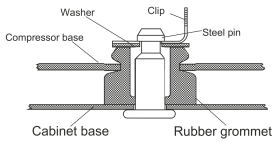


Dimensions in mm [in]

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
KLE7.7GFTX Configuration 1

Sales code:
106G5803

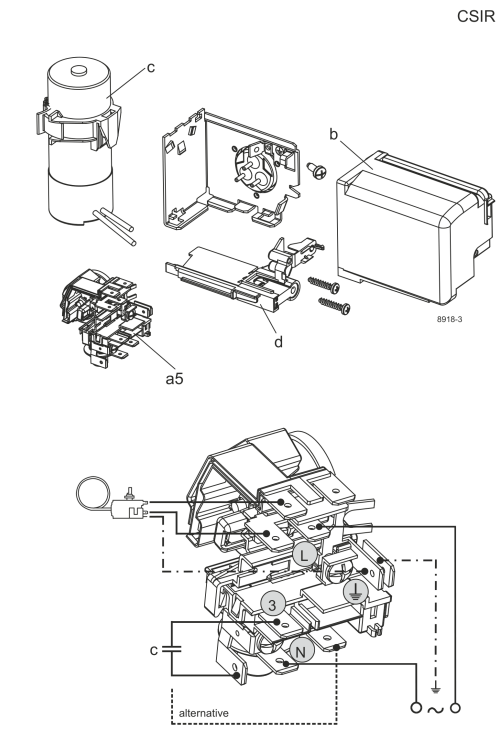
Configuration

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



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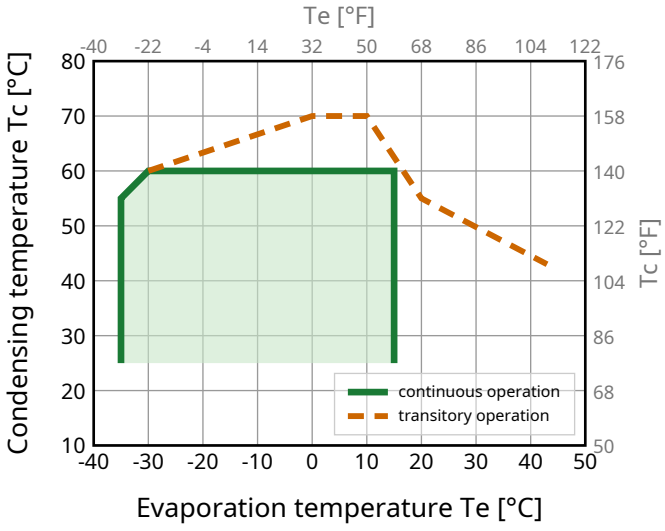
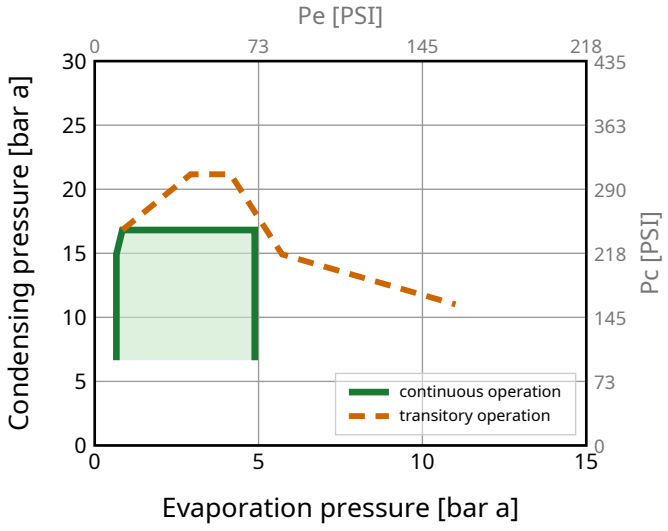
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE7.7GFTX Configuration 1

Sales code:
106G5803

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	**221**	755	190	**1.33**	4.52	167	1.35	4.30	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**452**	1541	388	**1.81**	6.19	249	1.65	9.84	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**790**	2697	680	**2.41**	8.22	328	1.99	17.50	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**115**	393	99	**1.02**	3.48	113	1.21	2.52	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**396**	1349	340	**1.83**	6.24	216	1.52	9.22	**EN12900 MBP**
5 41	50 122	20 68	50 122	**679**	2316	584	**2.26**	7.72	300	1.86	17.03	**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	**109**	373	94	**0.96**	3.28	114	1.21	2.35
-30	-22	**146**	497	125	**1.09**	3.71	134	1.25	3.14
-20	-4	**252**	859	217	**1.44**	4.92	175	1.37	5.46
-10	14	**410**	1398	352	**1.89**	6.46	216	1.52	8.95
0	32	**627**	2140	539	**2.42**	8.26	259	1.69	13.84
10	50	**913**	3114	785	**3.01**	10.27	303	1.88	20.43
15	59	**1084**	3697	932	**3.32**	11.33	326	1.97	24.48

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

-35	-31	**87**	297	75	**0.75**	2.55	116	1.22	2.06
-30	-22	**120**	411	104	**0.88**	2.99	138	1.26	2.86
-20	-4	**215**	733	185	**1.17**	4.01	183	1.40	5.13
-10	14	**352**	1201	303	**1.51**	5.16	233	1.58	8.49
0	32	**541**	1846	465	**1.88**	6.42	288	1.81	13.19
10	50	**789**	2693	679	**2.27**	7.75	348	2.07	19.55
15	59	**938**	3201	807	**2.47**	8.42	380	2.22	23.48

Model
KLE7.7GFTX Configuration 2

Sales code:
106G5803

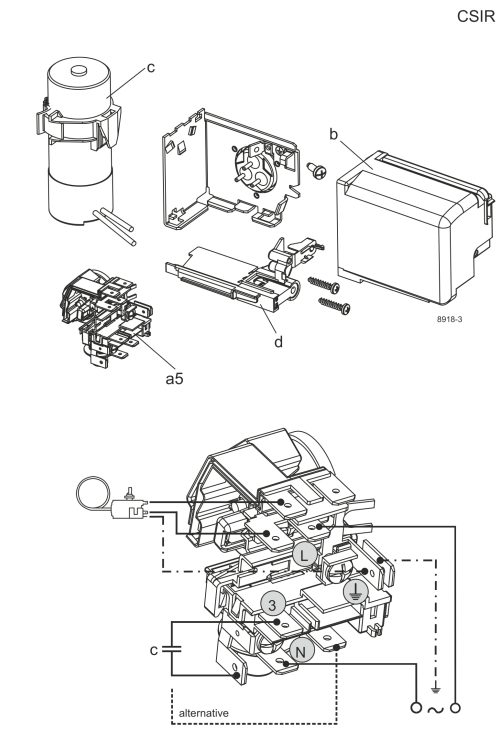
Configuration

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



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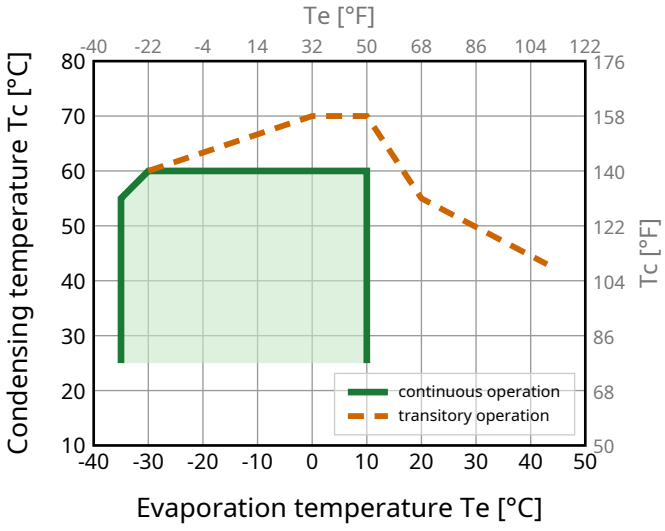
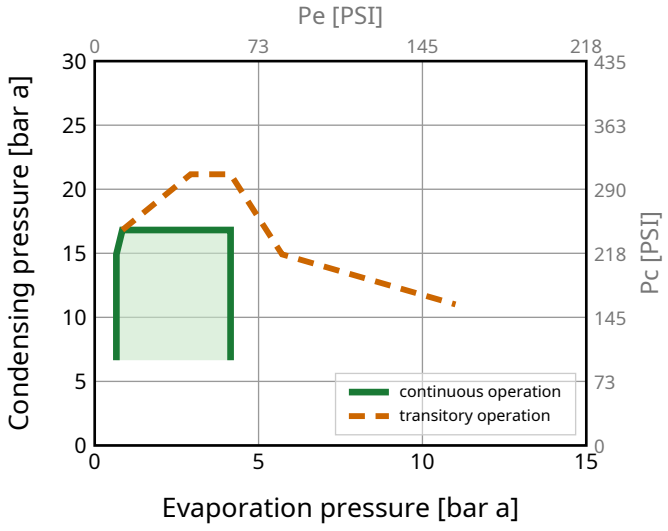
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE7.7GFTX Configuration 2

Sales code:

106G5803

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	**266**	906	228	**1.39**	4.73	192	1.31	5.15	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**540**	1842	464	**1.85**	6.32	292	1.65	11.76	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**945**	3223	812	**2.46**	8.39	384	2.01	20.91	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**136**	462	117	**1.12**	3.84	120	1.13	2.96	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**472**	1609	406	**1.87**	6.37	252	1.51	11.00	**EN12900 MBP**
5 41	50 122	20 68	50 122	**810**	2765	697	**2.31**	7.89	350	1.88	20.33	**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	**128**	438	110	**1.06**	3.61	121	1.13	2.76
-30	-22	**173**	591	149	**1.16**	3.95	150	1.20	3.73
-20	-4	**301**	1026	259	**1.49**	5.07	202	1.35	6.52
-10	14	**489**	1667	420	**1.94**	6.60	252	1.51	10.67
0	32	**748**	2552	643	**2.47**	8.44	302	1.69	16.50
10	50	**1090**	3718	937	**3.07**	10.49	354	1.89	24.39
15	59	**1295**	4419	1114	**3.39**	11.57	382	2.00	29.26

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

-35	-31	**102**	349	88	**0.84**	2.85	122	1.14	2.43
-30	-22	**144**	491	124	**0.94**	3.22	152	1.21	3.42
-20	-4	**258**	879	221	**1.22**	4.16	212	1.37	6.16
-10	14	**421**	1437	362	**1.55**	5.28	272	1.58	10.15
0	32	**646**	2204	556	**1.92**	6.55	336	1.82	15.76
10	50	**943**	3219	811	**2.32**	7.91	407	2.10	23.37
15	59	**1123**	3831	966	**2.52**	8.60	445	2.26	28.10

Model
KLE7.7GFTX Configuration 3

Sales code:
106G5803

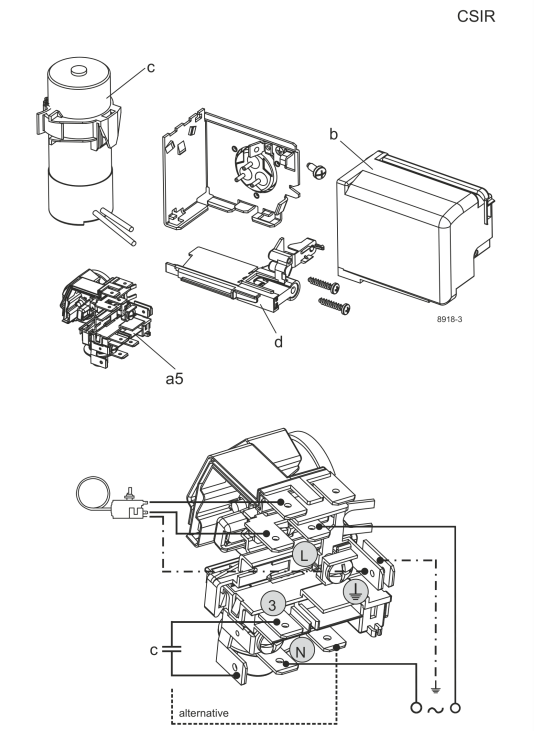
Configuration

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



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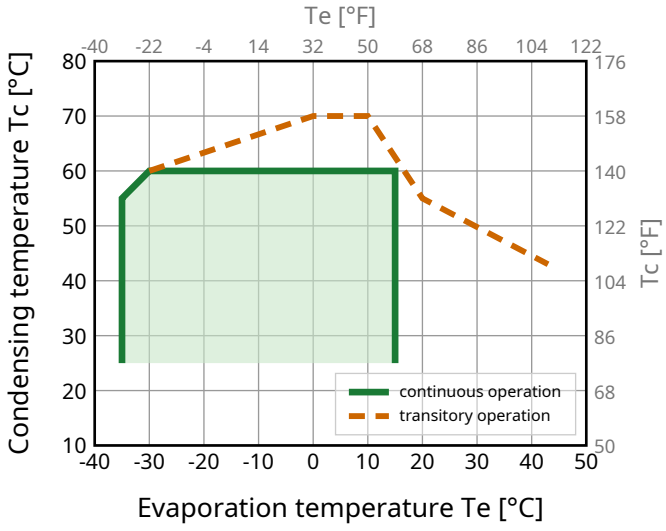
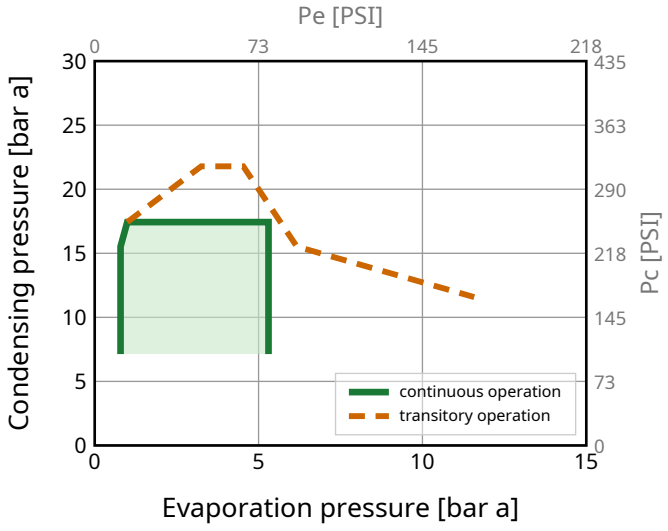
Components
a5 current relay (T0377/L6-S1) 117U7071
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE7.7GFTX Configuration 3

Sales code:

106G5803

Standard Conditions

R513A, 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	**244**	831	209	**1.34**	4.57	182	1.40	5.33	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**473**	1614	407	**1.79**	6.10	265	1.71	11.79	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**812**	2770	698	**2.36**	8.06	344	2.06	20.63	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**128**	436	110	**1.03**	3.53	124	1.22	3.21	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**411**	1402	353	**1.78**	6.09	230	1.57	11.12	**EN12900 MBP**
5 41	50 122	20 68	50 122	**683**	2330	587	**2.17**	7.41	314	1.92	20.13	**EN12900 HBP**

Performance Tables

R513A, 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	**123**	418	105	**0.98**	3.34	125	1.23	3.02
-30	-22	**160**	548	138	**1.10**	3.74	146	1.29	3.96
-20	-4	**270**	922	232	**1.43**	4.89	188	1.42	6.71
-10	14	**431**	1471	371	**1.87**	6.39	230	1.57	10.79
0	32	**650**	2218	559	**2.38**	8.13	273	1.74	16.46
10	50	**934**	3187	803	**2.95**	10.06	317	1.93	24.06
15	59	**1103**	3762	948	**3.25**	11.08	340	2.04	28.70

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

-35	-31	**98**	333	84	**0.75**	2.57	129	1.24	2.69
-30	-22	**132**	450	113	**0.87**	2.97	152	1.30	3.64
-20	-4	**227**	776	196	**1.15**	3.91	198	1.45	6.32
-10	14	**365**	1245	314	**1.47**	5.01	248	1.64	10.23
0	32	**551**	1880	474	**1.82**	6.20	303	1.88	15.67
10	50	**794**	2708	682	**2.18**	7.44	364	2.15	22.99
15	59	**938**	3200	807	**2.37**	8.08	396	2.30	27.50

Model
KLE7.7GFTX Configuration 4

Sales code:
106G5803

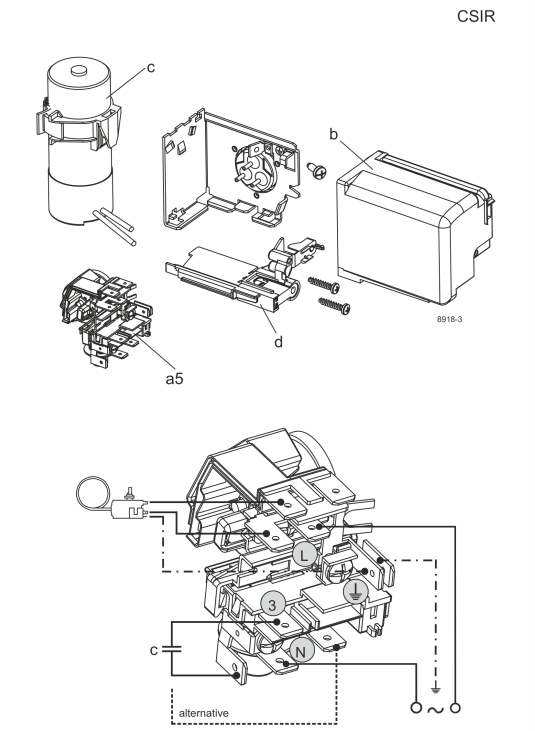
Configuration

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

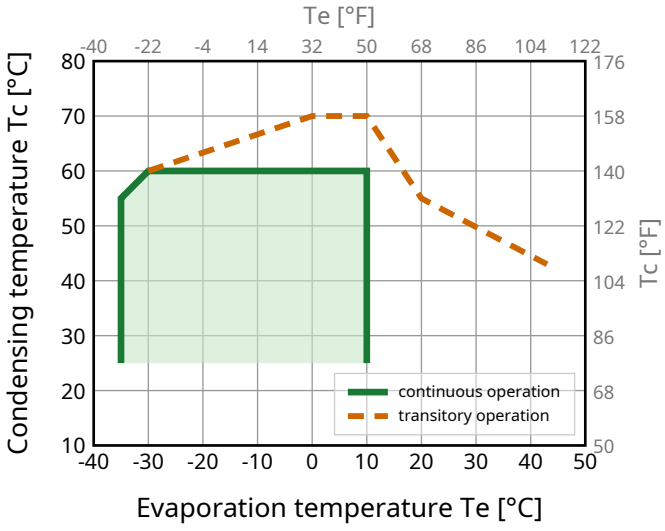


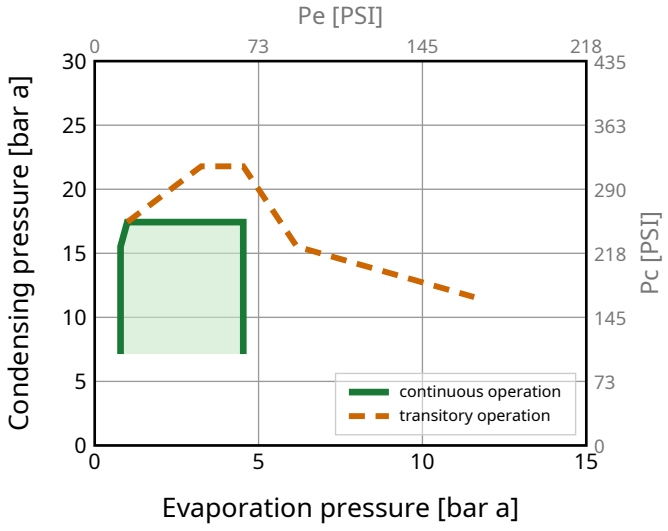
View full size

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

KLE7.7GFTX Configuration 4

Sales code:

106G5803

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	**292**	997	251	**1.40**	4.79	208	1.36	6.40	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**566**	1930	486	**1.83**	6.23	310	1.72	14.10	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**970**	3311	835	**2.41**	8.23	402	2.08	24.66	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**151**	514	130	**1.13**	3.86	133	1.15	3.79	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**490**	1673	422	**1.82**	6.22	269	1.57	13.27	**EN12900 MBP**
5 41	50 122	20 68	50 122	**816**	2783	701	**2.22**	7.56	368	1.94	24.05	**EN12900 HBP**

Performance Tables

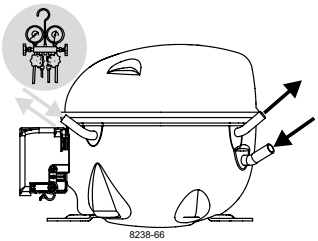
R513A, 230 V/60 Hz, CSIR, fan 3m/s

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	**144**	492	124	**1.07**	3.65	135	1.16	3.55
-30	-22	**191**	651	164	**1.17**	3.97	164	1.24	4.71
-20	-4	**323**	1102	278	**1.48**	5.05	218	1.40	8.01
-10	14	**514**	1755	442	**1.91**	6.53	269	1.57	12.88
0	32	**775**	2645	667	**2.43**	8.30	319	1.75	19.64
10	50	**1115**	3805	959	**3.01**	10.28	370	1.95	28.73
15	59	**1318**	4498	1134	**3.32**	11.32	397	2.06	34.32

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

-35	-31	**115**	393	99	**0.84**	2.86	137	1.17	3.17
-30	-22	**158**	538	136	**0.94**	3.20	168	1.25	4.35
-20	-4	**273**	931	235	**1.19**	4.07	229	1.43	7.58
-10	14	**436**	1489	375	**1.50**	5.13	290	1.65	12.24
0	32	**658**	2247	566	**1.85**	6.33	355	1.89	18.73
10	50	**949**	3238	816	**2.23**	7.61	425	2.18	27.49
15	59	**1123**	3832	966	**2.42**	8.27	463	2.33	32.93



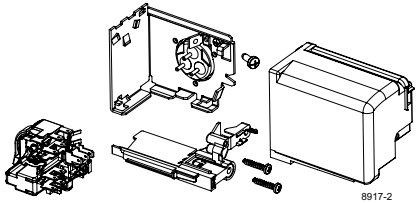
KL Compressors

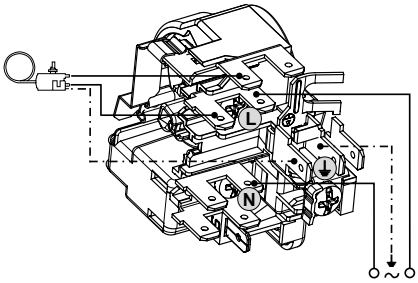
SECOP

Keep electrical equipment clear from oil, chemicals, and water

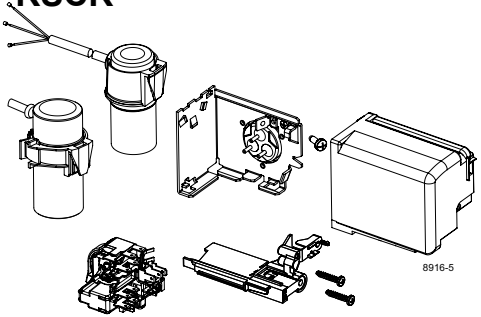
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

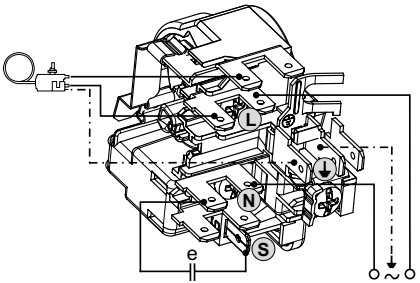
RSIR



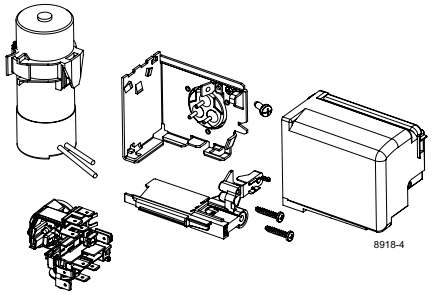


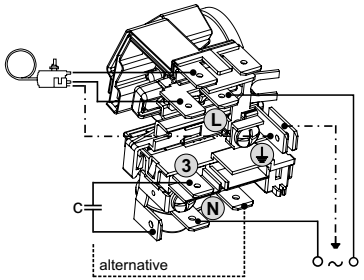
RSCR

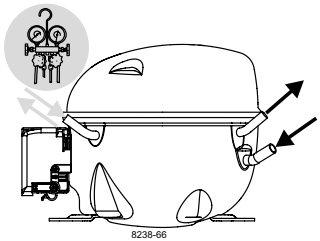




CSIR







KL Compressors

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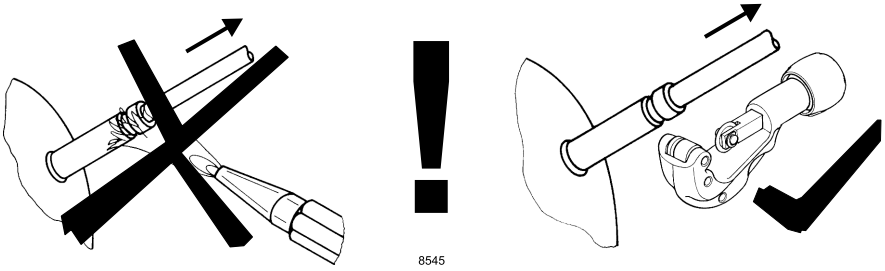
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**