Singolo
Imballi

Single Pack KLE4.0GFMX 100V 50Hz / 100-127V 60Hz CSIR

Codice Imballo Singolo: **195B4798**

Posizione	Titolo	Codice	Quantità
1	Compressor KLE4.0GFMX	106G6413	1
2	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
3	Starting relay (QLZ-7.85A, overload protector T0377/L6)	117U7081	1
4	Starting capacitor (240µF 125V, 6.3mm)	117U5002	1
5	Cable clamp	16058100	1
6	Screw for cable clamp	10636000	1
7	Screw for cable clamp	10636200	1
8	Cover	10636401	1
9	Earth screw	10641201	1

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Model
KLE4.0GFMX

Sales code:
106G6413

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**8.30 kg / 18.30lbs**
Displacement	**4.00 cm3 / 0.24cu.in**
Compressors on pallet	**100**

General – Configurations With KLE4.0GFMX

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5	Conf. 6
Motor configuration	CSIR	CSIR	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	115-127 V/60 Hz	100-127 V/60 Hz	100 V/50 Hz	115-127 V/60 Hz	100-127 V/60 Hz	100 V/50 Hz
Number of phases	1	1	1	1	1	1
Voltage range	95-140 V	90-140 V	90-110 V	95-140 V	90-140 V	90-110 V
Approvals	UL, CCC, CB	UL, CCC, CB	UL, CCC, CB	UL, CCC, CB	UL, CCC, CB	UL, CCC, CB
Starting torque	HST	HST	HST	HST	HST	HST
Refrigerant	R134a	R134a	R134a	R513A	R513A	R513A
Application	LBP+MBP+HBP	LBP+MBP	MBP	LBP+MBP+HBP	LBP+MBP	MBP
Hot gas defrost	OK	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK	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
KLE4.0GFMX

Sales code:
106G6413

Compressor Design

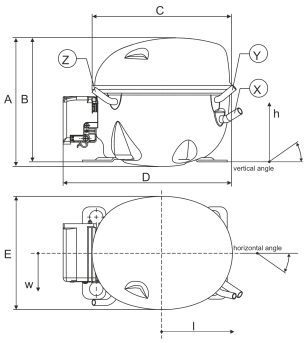
Oil type	**POE**	Winding resistance main	**3.4 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**8 Ohm**
Oil quantity	**200 / 6.76fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,630 cm3 / 55.12fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

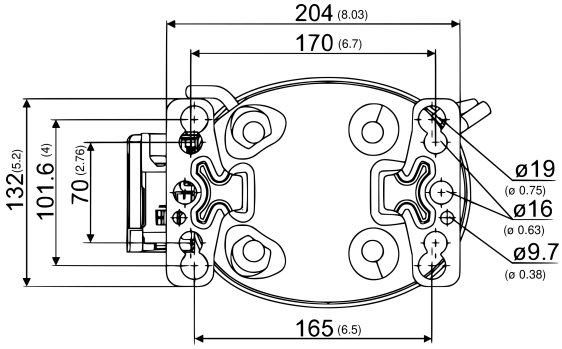
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



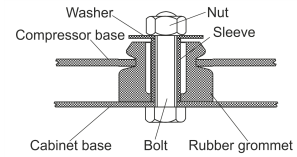
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

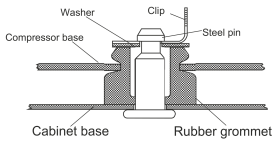


Dimensions in mm [in]

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
KLE4.0GFMX Configuration 1

Sales code:
106G6413

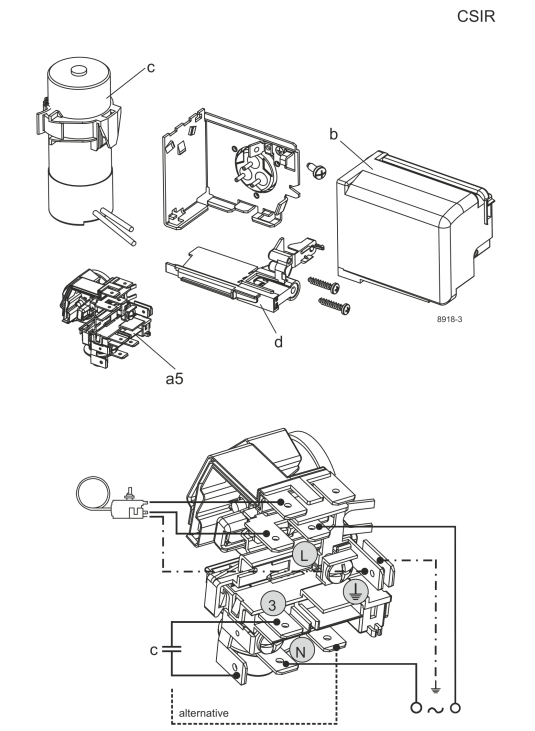
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**21.2 A**
RLA (rated load amps / 1s/ U(N))	**2.7 A**
Cut in current (U(N))	**20.5 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
static

Electrical Accessories / Wiring Diagram



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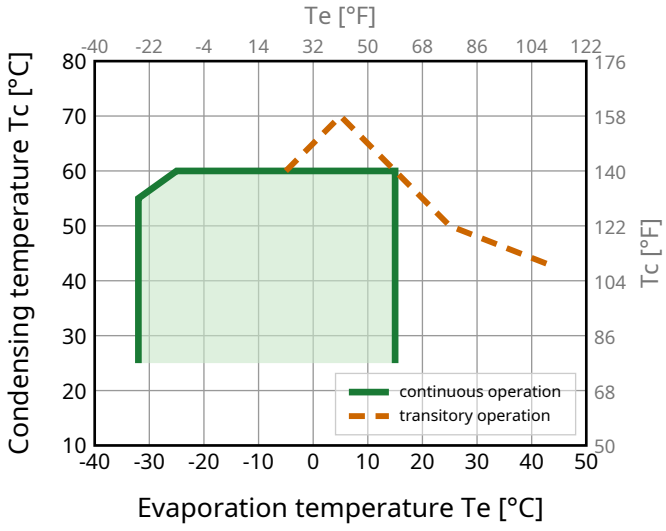
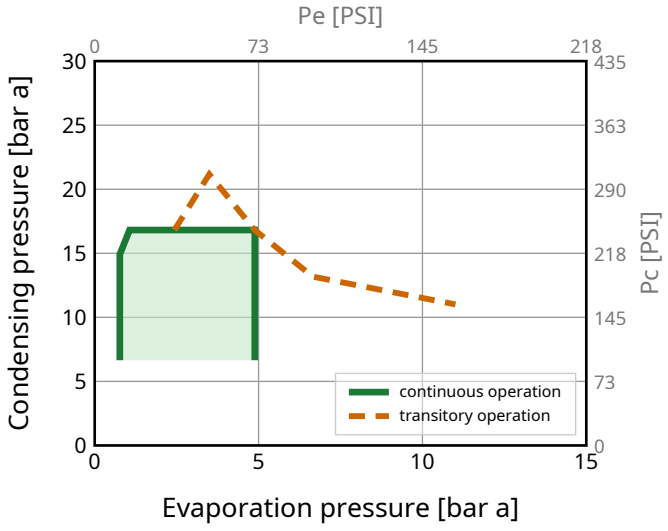
Components (already pre-assembled)
a5 current relay (T0377/L6 S1) 117U7081
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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:

KLE4.0GFMX Configuration 1 **106G6413**

Standard Conditions

R134a, 120 V/60 Hz, CSIR, static

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	**117**	400	101	**1.17**	4.00	100	1.73	2.27	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**258**	880	222	**1.80**	6.14	143	1.97	5.62	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**481**	1640	413	**2.62**	8.92	184	2.22	10.64	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**64**	219	55	**0.86**	2.95	74	1.62	1.40	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**234**	798	201	**1.83**	6.24	128	1.88	5.45	**EN12900 MBP**
5 41	50 122	20 68	50 122	**413**	1408	355	**2.43**	8.28	170	2.13	10.35	**EN12900 HBP**

Performance Tables

R134a, 120 V/60 Hz, CSIR, static

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	**70**	238	60	**0.87**	2.97	80	1.64	1.50
-30	-22	**80**	272	69	**0.95**	3.23	84	1.66	1.72
-20	-4	**145**	494	125	**1.37**	4.68	106	1.76	3.14
-10	14	**242**	826	208	**1.89**	6.46	128	1.88	5.29
0	32	**381**	1300	328	**2.52**	8.61	151	2.00	8.41
10	50	**571**	1948	491	**3.27**	11.14	175	2.16	12.78

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

-32	-26	**53**	182	46	**0.67**	2.29	79	1.64	1.26
-30	-22	**62**	210	53	**0.73**	2.50	84	1.66	1.46
-20	-4	**116**	395	100	**1.07**	3.64	108	1.78	2.77
-10	14	**198**	676	170	**1.47**	5.02	135	1.92	4.78
0	32	**318**	1086	274	**1.95**	6.65	163	2.08	7.76
10	50	**486**	1657	418	**2.51**	8.55	194	2.29	12.03

Model
KLE4.0GFMX Configuration 2

Sales code:
106G6413

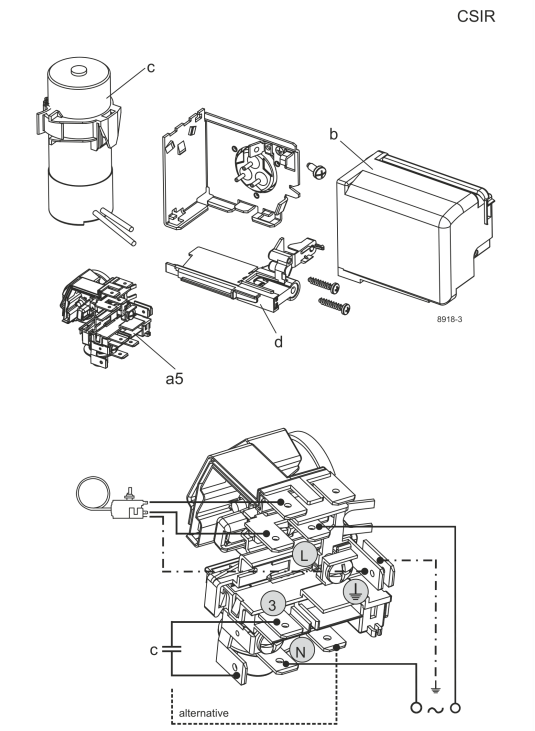
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**100-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**90-140 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**21.2 A**
RLA (rated load amps / 1s/ U(N))	**2.7 A**
Cut in current (U(N))	**20.5 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
static

Electrical Accessories / Wiring Diagram



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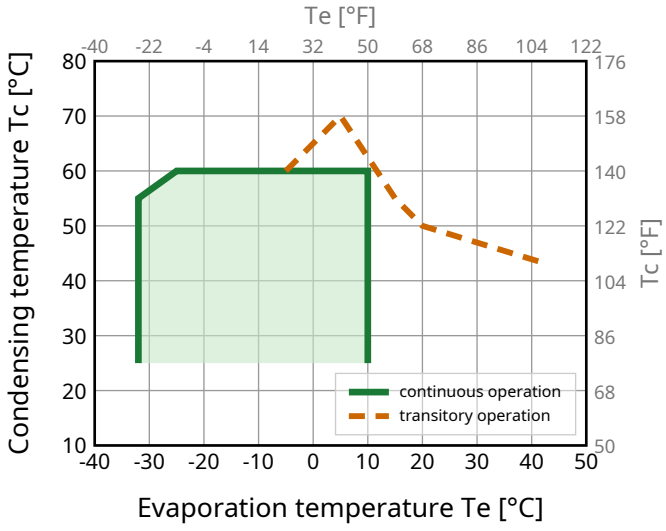
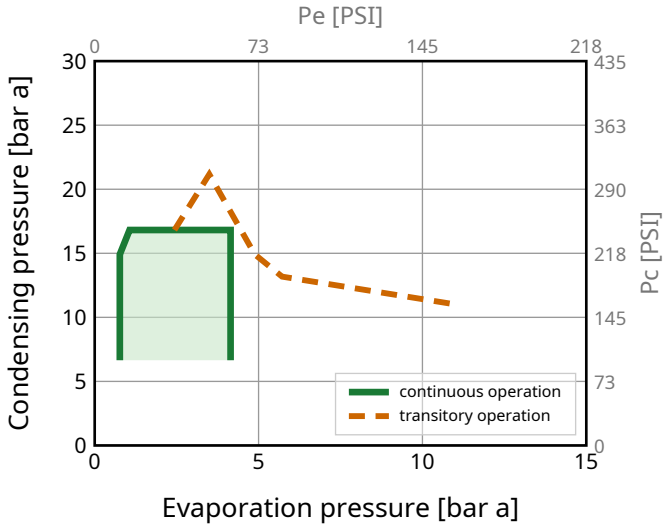
Components (already pre-assembled)
a5 current relay (T0377/L6 S1) 117U7081
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE4.0GFMX Configuration 2

Sales code:
106G6413

Standard Conditions

R134a, 100 V/60 Hz, CSIR, static

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	**135**	461	116	**1.46**	4.99	92	1.54	2.62	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**288**	983	248	**2.11**	7.20	137	1.86	6.28	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**520**	1773	447	**3.11**	10.62	167	2.12	11.50	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**67**	229	58	**0.98**	3.34	69	1.42	1.47	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**256**	875	221	**2.15**	7.34	119	1.72	5.98	**EN12900 MBP**
5 41	50 122	20 68	50 122	**446**	1522	384	**2.89**	9.86	154	2.01	11.19	**EN12900 HBP**

Performance Tables

R134a, 100 V/60 Hz, CSIR, static

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	**77**	262	66	**1.05**	3.58	73	1.44	1.65
-30	-22	**88**	302	76	**1.15**	3.93	77	1.45	1.91
-20	-4	**162**	551	139	**1.66**	5.66	97	1.57	3.50
-10	14	**266**	907	229	**2.23**	7.61	119	1.72	5.80
0	32	**412**	1406	354	**2.98**	10.15	138	1.87	9.09
10	50	**612**	2087	526	**4.04**	13.79	151	1.99	13.69

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

-32	-26	**57**	193	49	**0.80**	2.72	71	1.42	1.34
-30	-22	**68**	231	58	**0.90**	3.06	76	1.44	1.61
-20	-4	**133**	454	114	**1.31**	4.48	101	1.60	3.18
-10	14	**223**	762	192	**1.74**	5.92	129	1.80	5.38
0	32	**350**	1192	301	**2.27**	7.75	154	2.00	8.52
10	50	**522**	1782	449	**3.02**	10.32	173	2.17	12.94

Model
KLE4.0GFMX Configuration 3

Sales code:
106G6413

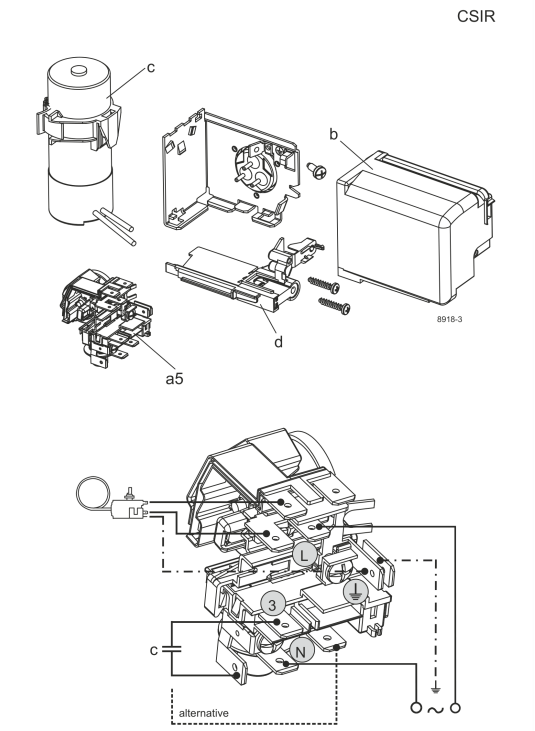
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**100 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**90-110 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**21.2 A**
RLA (rated load amps / 1s/ U(N))	**2.7 A**
Cut in current (U(N))	**20.5 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
static

Electrical Accessories / Wiring Diagram



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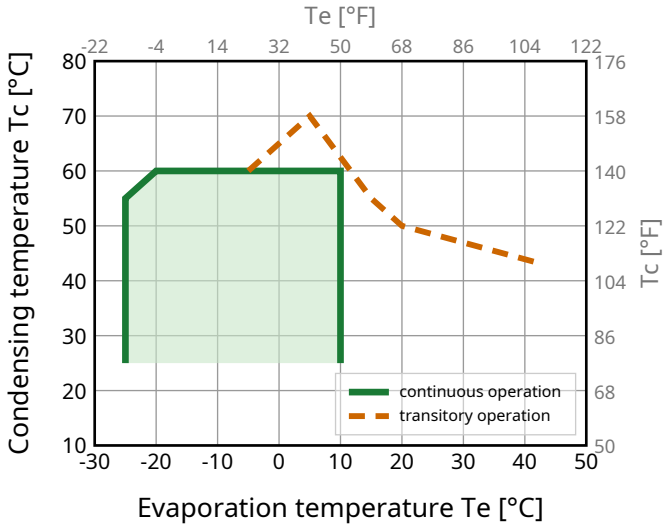
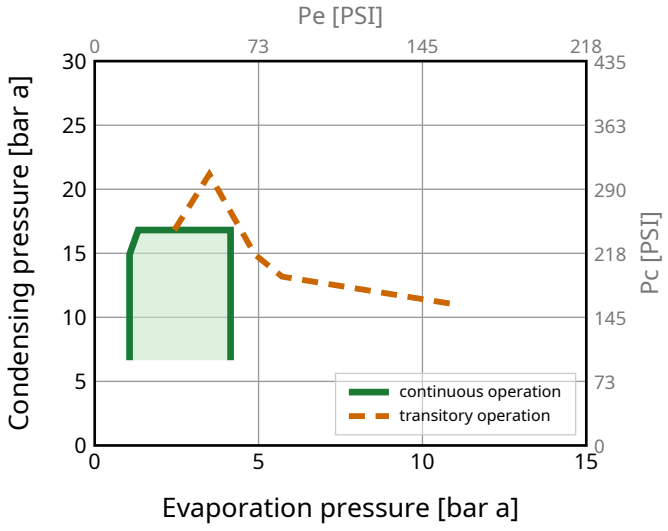
Components (already pre-assembled)
a5 current relay (T0377/L6 S1) 117U7081
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE4.0GFMX Configuration 3

Sales code:
106G6413

Standard Conditions

R134a, 100 V/50 Hz, CSIR, static

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	**113**	385	97	**1.31**	4.48	86	1.79	2.19	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**241**	822	207	**2.00**	6.82	121	1.97	5.25	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**435**	1484	374	**3.00**	10.25	145	2.12	9.62	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**56**	191	48	**0.81**	2.75	70	1.72	1.23	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**214**	731	184	**2.01**	6.86	107	1.89	5.00	**EN12900 MBP**
5 41	50 122	20 68	50 122	**373**	1274	321	**2.77**	9.45	135	2.06	9.36	**EN12900 HBP**

Performance Tables

R134a, 100 V/50 Hz, CSIR, static

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]
-25	-13	**102**	347	87	**1.25**	4.25	82	1.77	2.20
-20	-4	**135**	460	116	**1.50**	5.14	90	1.81	2.92
-15	5	**175**	596	150	**1.78**	6.07	98	1.85	3.80
-10	14	**222**	757	191	**2.08**	7.10	107	1.89	4.85
-5	23	**278**	950	239	**2.42**	8.27	115	1.94	6.11
0	32	**344**	1175	296	**2.82**	9.63	122	1.98	7.60
5	41	**422**	1440	363	**3.29**	11.24	128	2.01	9.37
10	50	**512**	1746	440	**3.87**	13.19	132	2.04	11.45

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

-25	-13	**82**	279	70	**0.99**	3.37	83	1.77	1.95
-20	-4	**111**	379	96	**1.20**	4.09	93	1.82	2.66
-15	5	**146**	497	125	**1.41**	4.81	103	1.88	3.50
-10	14	**187**	637	161	**1.63**	5.58	114	1.93	4.50
-5	23	**235**	803	202	**1.89**	6.44	125	1.99	5.70
0	32	**292**	997	251	**2.18**	7.42	134	2.05	7.13
5	41	**359**	1226	309	**2.52**	8.59	143	2.11	8.82
10	50	**437**	1492	376	**2.93**	9.99	149	2.16	10.83

Model
KLE4.0GFMX Configuration 4

Sales code:
106G6413

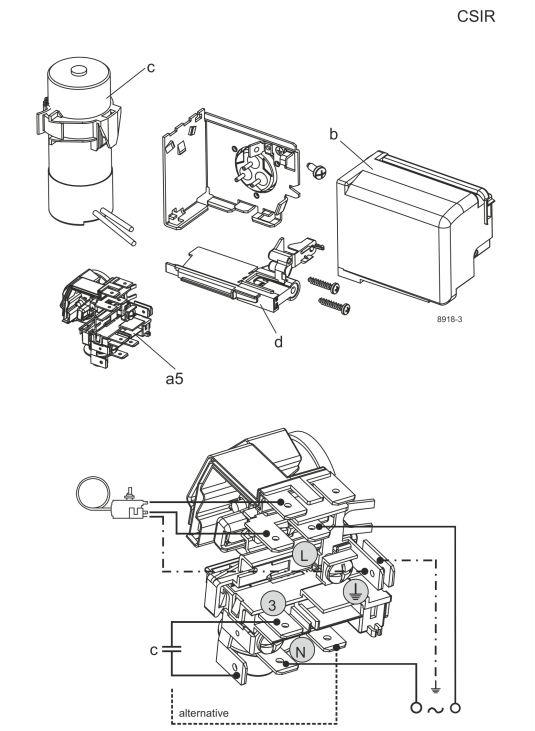
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**21.2 A**
RLA (rated load amps / 1s/ U(N))	**2.7 A**
Cut in current (U(N))	**20.5 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
static

Electrical Accessories / Wiring Diagram

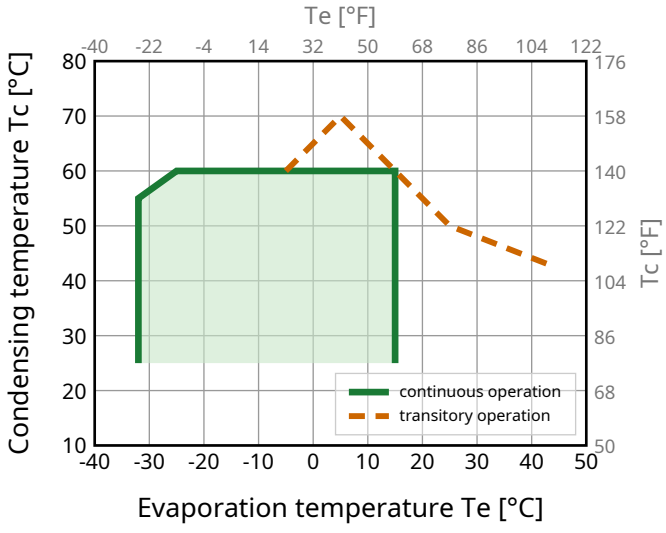


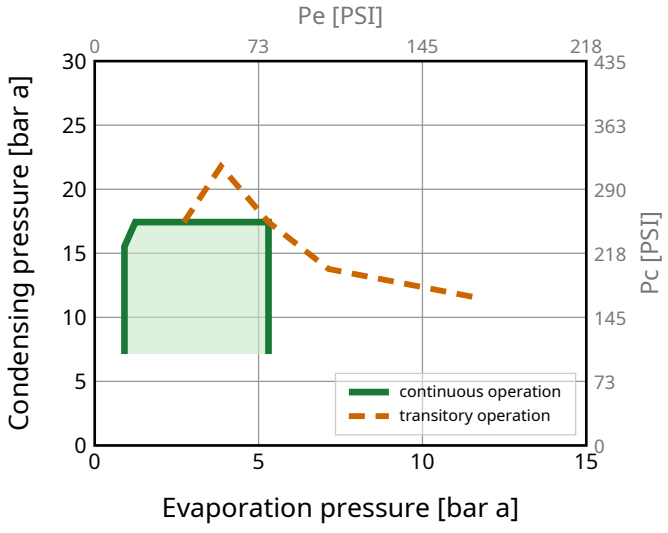
View full size

Components (already pre-assembled)
a5 current relay (T0377/L6 S1) 117U7081
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:

KLE4.0GFMX Configuration 4 **106G6413**

Standard Conditions

R513A, 120 V/60 Hz, CSIR, static

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	**129**	440	111	**1.20**	4.10	107	1.77	2.83	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**271**	923	233	**1.79**	6.11	151	2.01	6.75	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**494**	1687	425	**2.58**	8.81	192	2.27	12.56	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**71**	243	61	**0.85**	2.90	84	1.66	1.79	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**243**	830	209	**1.80**	6.16	135	1.91	6.58	**EN12900 MBP**
5 41	50 122	20 68	50 122	**416**	1418	358	**2.34**	7.98	178	2.18	12.26	**EN12900 HBP**

Performance Tables

R513A, 120 V/60 Hz, CSIR, static

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	**78**	264	67	**0.88**	2.99	88	1.68	1.91
-30	-22	**88**	300	76	**0.96**	3.26	92	1.70	2.17
-20	-4	**156**	531	134	**1.39**	4.74	112	1.80	3.86
-10	14	**255**	871	219	**1.89**	6.46	135	1.91	6.39
0	32	**395**	1349	340	**2.50**	8.51	158	2.05	10.01
10	50	**585**	1996	503	**3.21**	10.97	182	2.21	15.07

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

-32	-26	**59**	201	51	**0.67**	2.28	88	1.68	1.62
-30	-22	**67**	230	58	**0.73**	2.49	92	1.70	1.86
-20	-4	**123**	419	106	**1.06**	3.62	116	1.81	3.41
-10	14	**206**	701	177	**1.44**	4.92	142	1.96	5.77
0	32	**325**	1108	279	**1.90**	6.47	171	2.13	9.23
10	50	**489**	1669	421	**2.43**	8.30	201	2.34	14.17

Model
KLE4.0GFMX Configuration 5

Sales code:
106G6413

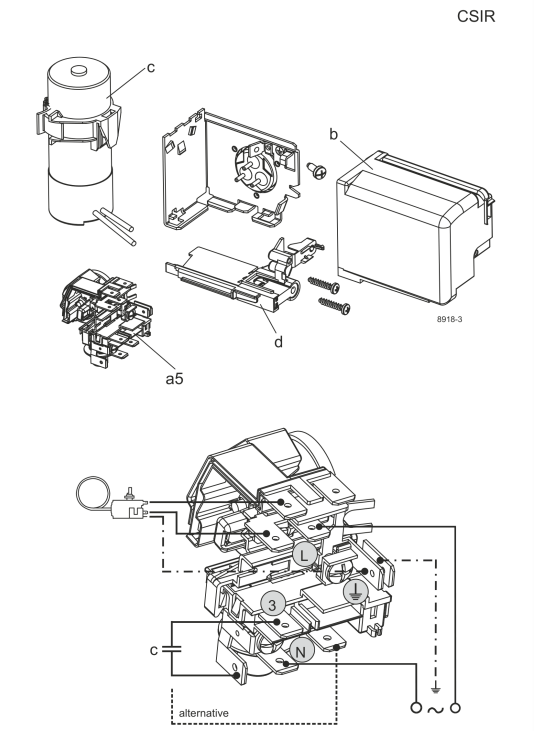
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**100-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
Voltage range	**90-140 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**21.2 A**
RLA (rated load amps / 1s/ U(N))	**2.7 A**
Cut in current (U(N))	**20.5 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
static

Electrical Accessories / Wiring Diagram

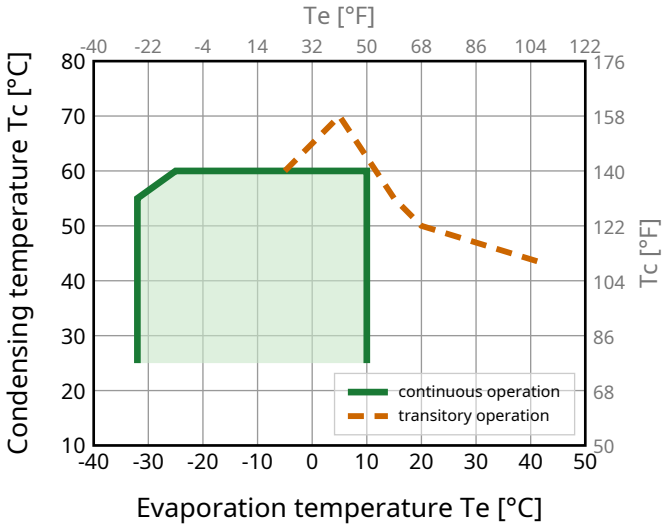


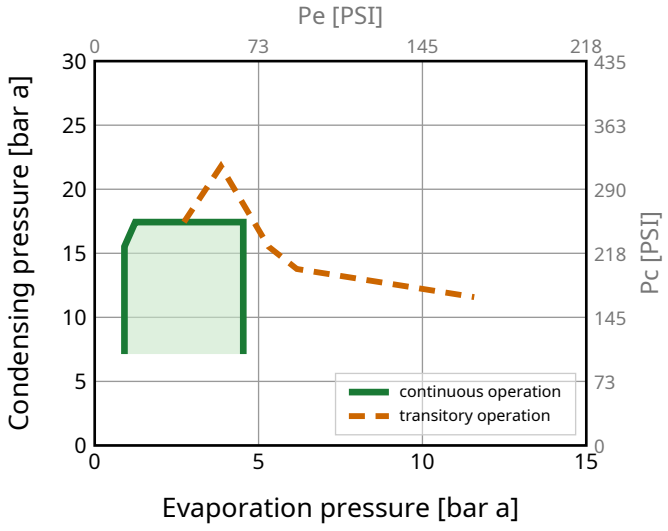
View full size

Components (already pre-assembled)
a5 current relay (T0377/L6 S1) 117U7081
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
KLE4.0GFMX Configuration 5

Sales code:
106G6413

Standard Conditions

R513A, 100 V/60 Hz, CSIR, static

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	**149**	507	128	**1.48**	5.06	100	1.59	3.25	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**302**	1031	260	**2.09**	7.12	145	1.93	7.53	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**534**	1823	460	**3.06**	10.46	174	2.18	13.58	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**75**	255	64	**1.01**	3.45	74	1.45	1.88	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**267**	910	229	**2.11**	7.19	127	1.78	7.22	**EN12900 MBP**
5 41	50 122	20 68	50 122	**450**	1534	387	**2.78**	9.50	161	2.07	13.25	**EN12900 HBP**

Performance Tables

R513A, 100 V/60 Hz, CSIR, static

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	**85**	291	73	**1.07**	3.66	80	1.47	2.10
-30	-22	**98**	333	84	**1.17**	4.00	83	1.49	2.41
-20	-4	**174**	592	149	**1.66**	5.65	105	1.62	4.31
-10	14	**280**	955	241	**2.21**	7.54	127	1.78	7.01
0	32	**428**	1459	368	**2.94**	10.03	145	1.93	10.83
10	50	**627**	2138	539	**3.98**	13.58	157	2.04	16.14

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

-32	-26	**63**	214	54	**0.81**	2.75	78	1.45	1.73
-30	-22	**74**	253	64	**0.90**	3.06	83	1.48	2.05
-20	-4	**141**	481	121	**1.29**	4.40	109	1.65	3.92
-10	14	**232**	790	199	**1.69**	5.77	137	1.86	6.50
0	32	**356**	1216	307	**2.20**	7.52	162	2.07	10.14
10	50	**526**	1795	452	**2.92**	9.97	180	2.23	15.24

Model
KLE4.0GFMX Configuration 6

Sales code:
106G6413

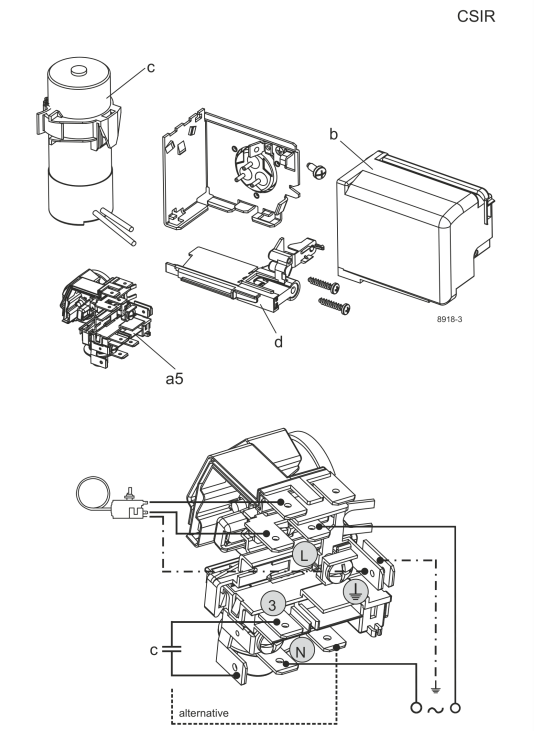
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**100 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**MBP**
Voltage range	**90-110 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**21.2 A**
RLA (rated load amps / 1s/ U(N))	**2.7 A**
Cut in current (U(N))	**20.5 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
static

Electrical Accessories / Wiring Diagram

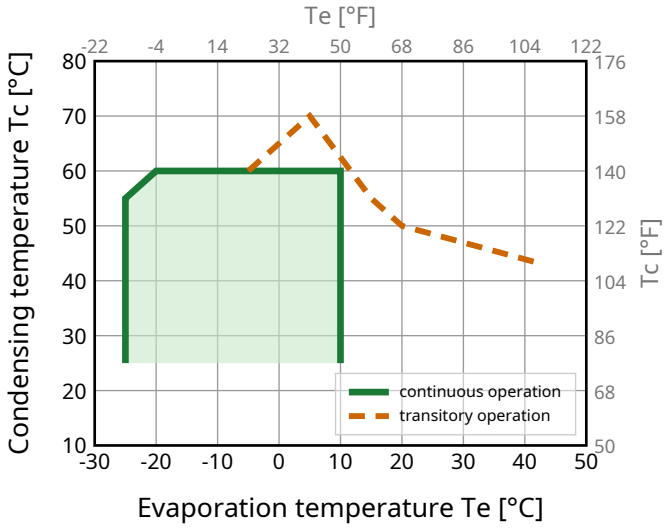


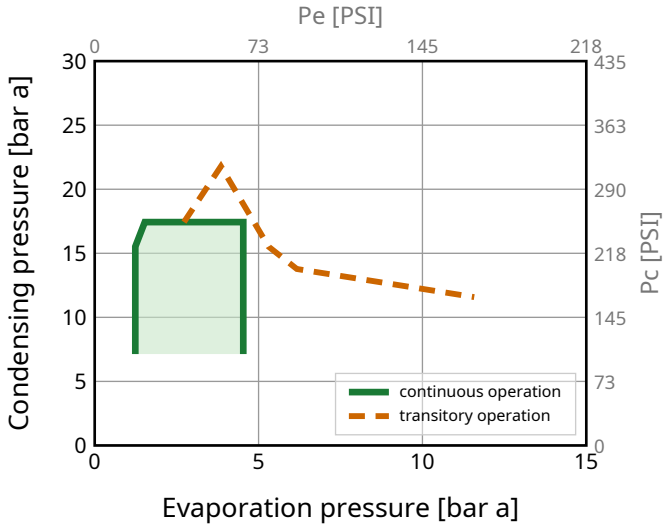
View full size

Components (already pre-assembled)
a5 current relay (T0377/L6 S1) 117U7081
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
KLE4.0GFMX Configuration 6

Sales code:
106G6413

Standard Conditions

R513A, 100 V/50 Hz, CSIR, static

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	**124**	423	107	**1.35**	4.61	92	1.81	2.72	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**253**	862	217	**1.99**	6.80	127	2.01	6.30	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**447**	1526	385	**2.96**	10.10	151	2.17	11.37	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**62**	213	54	**0.81**	2.75	77	1.76	1.57	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**223**	761	192	**1.99**	6.80	112	1.92	6.04	**EN12900 MBP**
5 41	50 122	20 68	50 122	**376**	1283	323	**2.67**	9.12	141	2.09	11.09	**EN12900 HBP**

Performance Tables

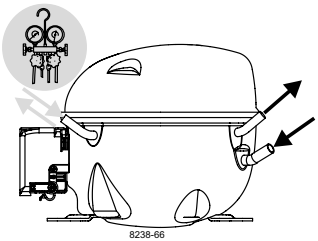
R513A, 100 V/50 Hz, CSIR, static

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]
-25	-13	**110**	377	95	**1.27**	4.33	87	1.79	2.73
-20	-4	**145**	494	125	**1.53**	5.22	95	1.83	3.60
-15	5	**186**	634	160	**1.80**	6.14	103	1.87	4.63
-10	14	**234**	798	201	**2.09**	7.13	112	1.92	5.86
-5	23	**291**	993	250	**2.42**	8.25	120	1.97	7.32
0	32	**358**	1220	307	**2.80**	9.55	128	2.01	9.05
5	41	**435**	1484	374	**3.25**	11.10	134	2.05	11.10
10	50	**524**	1789	451	**3.81**	13.01	138	2.07	13.50

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

-25	-13	**88**	300	76	**0.99**	3.37	89	1.80	2.43
-20	-4	**118**	402	101	**1.19**	4.07	99	1.85	3.27
-15	5	**153**	521	131	**1.40**	4.76	109	1.91	4.26
-10	14	**194**	661	167	**1.61**	5.49	120	1.97	5.43
-5	23	**242**	825	208	**1.84**	6.29	131	2.03	6.83
0	32	**298**	1018	257	**2.12**	7.22	141	2.10	8.48
5	41	**364**	1242	313	**2.44**	8.33	149	2.15	10.44
10	50	**440**	1503	379	**2.83**	9.66	156	2.20	12.76



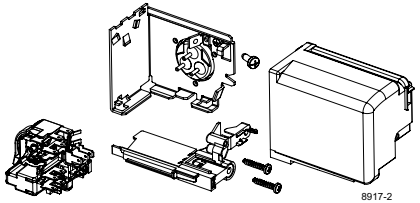
KL Compressors

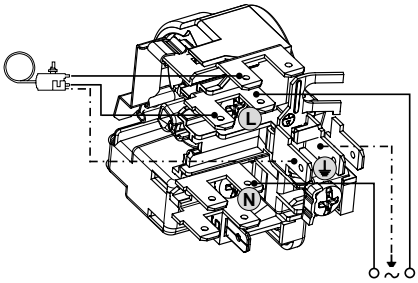
SECOP

Keep electrical equipment clear from oil, chemicals, and water

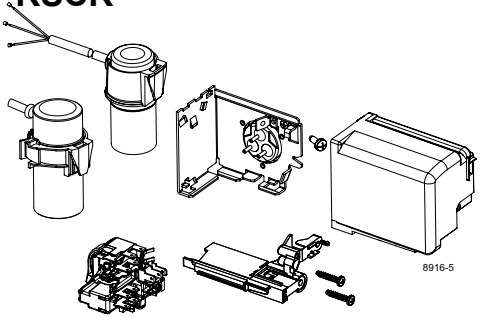
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

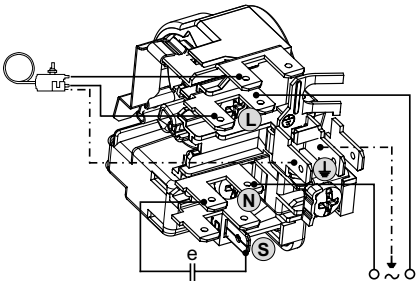
RSIR



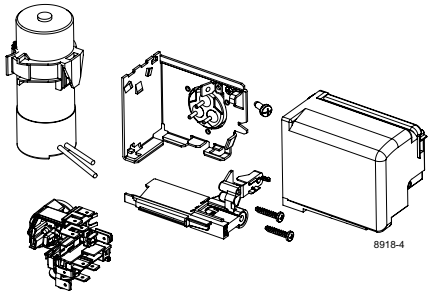


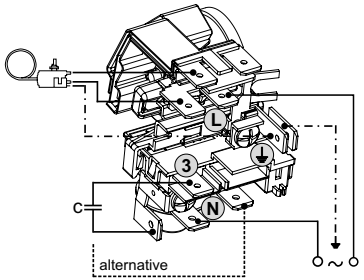
RSCR

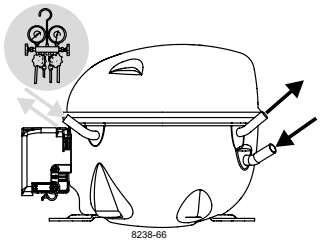




CSIR







KL Compressors

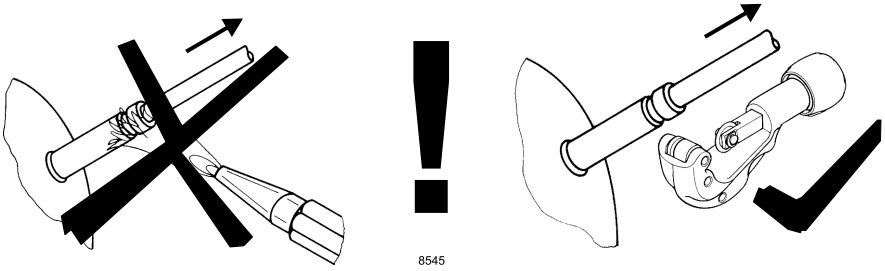
SECOP

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**