Model
KLE4.0GFTX

Sales code:
106G5413

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**250g / 8.82oz**
Weight	**8.90 kg / 19.62lbs**
Displacement	**4.00 cm3 / 0.24cu.in**
Compressors on pallet	**100**

General – Configurations With KLE4.0GFTX

–	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, CCC	VDE, CB, UL, CCC	VDE, CB, UL, CCC	VDE, CB, UL, CCC
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

- 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
KLE4.0GFTX

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106G5413

Compressor Design

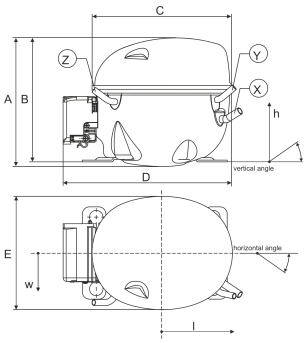
Oil type	**POE**	Winding resistance main	**13.1 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**25.3 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,560 cm3 / 52.75fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

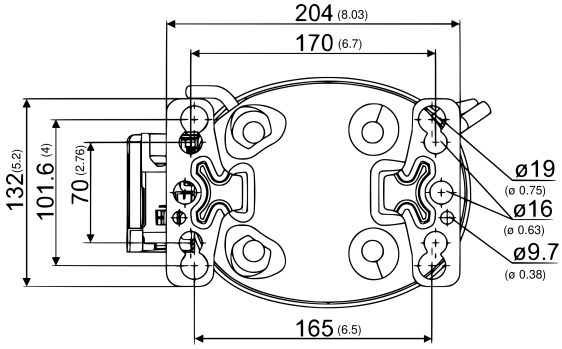
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



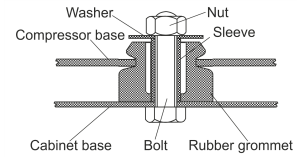
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.16–6.24 / 0.24–0.25in	øi 5.1–5.2 / 0.20–0.20in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

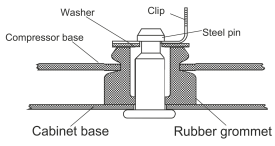


Dimensions in mm [in]

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
KLE4.0GFTX Configuration 1

Sales code:
106G5413

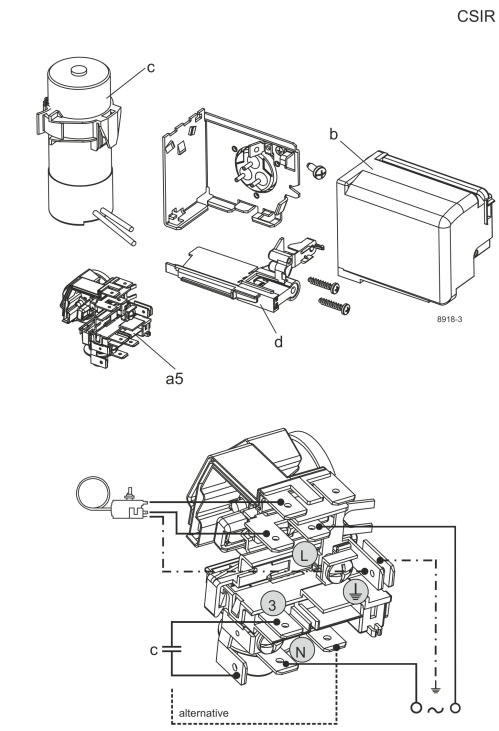
Configuration

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, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.5 A**
RLA (rated load amps / 1s/ U(N))	**1 A**
Cut in current (U(N))	**10.2 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

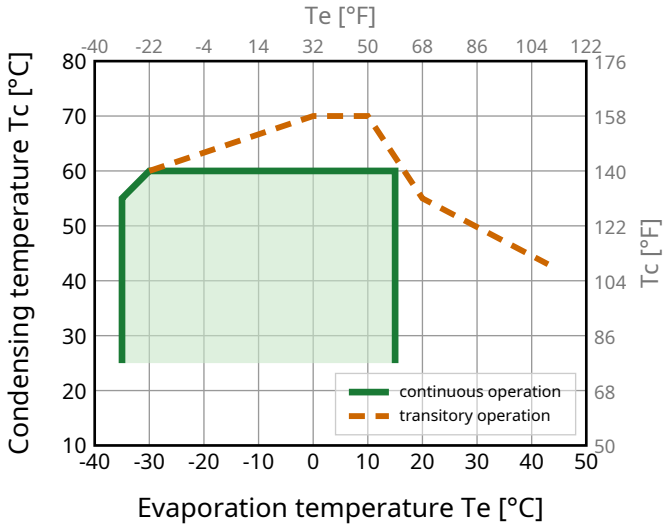


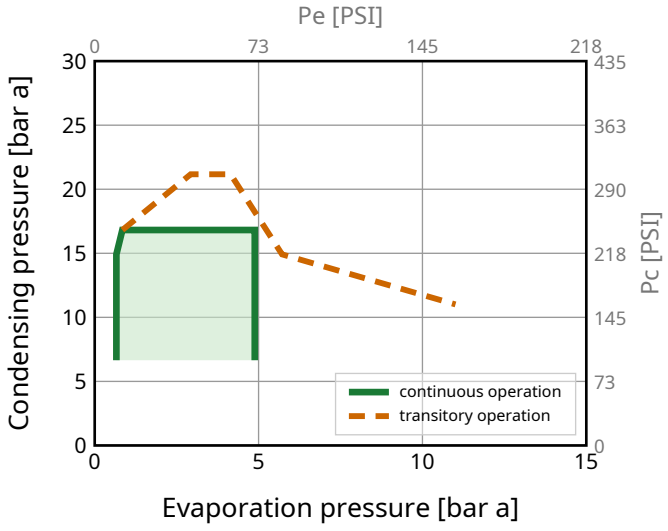
View full size

Components (already pre-assembled)
a5 current relay (T1189/L6-S3) 117U7073
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
KLE4.0GFTX Configuration 1

Sales code:
106G5413

Standard Conditions

R134a, 220 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	**102**	346	87	**1.14**	3.90	89	1.16	1.97	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**221**	754	190	**1.76**	6.02	125	1.23	4.81	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**398**	1357	342	**2.58**	8.80	154	1.31	8.80	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**46**	157	40	**0.72**	2.47	64	1.10	1.01	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**192**	654	165	**1.74**	5.94	110	1.20	4.47	**EN12900 MBP**
5 41	50 122	20 68	50 122	**340**	1160	292	**2.37**	8.08	144	1.28	8.53	**EN12900 HBP**

Performance Tables

R134a, 220 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]
-35	-31	**43**	148	37	**0.69**	2.34	63	1.10	0.94
-30	-22	**62**	213	54	**0.85**	2.90	73	1.12	1.35
-20	-4	**117**	400	101	**1.27**	4.34	92	1.16	2.54
-10	14	**198**	677	171	**1.80**	6.15	110	1.20	4.33
0	32	**311**	1061	267	**2.43**	8.30	128	1.24	6.86
10	50	**459**	1567	395	**3.15**	10.76	146	1.28	10.28
15	59	**549**	1872	472	**3.54**	12.08	155	1.31	12.39

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

-35	-31	**35**	121	30	**0.59**	2.01	60	1.10	0.84
-30	-22	**52**	179	45	**0.72**	2.46	73	1.12	1.25
-20	-4	**100**	342	86	**1.04**	3.55	97	1.17	2.40
-10	14	**171**	583	147	**1.44**	4.91	119	1.22	4.12
0	32	**269**	917	231	**1.92**	6.55	140	1.27	6.55
10	50	**399**	1361	343	**2.48**	8.45	161	1.33	9.88
15	59	**477**	1629	410	**2.78**	9.50	172	1.36	11.95

Model
KLE4.0GFTX Configuration 2

Sales code:
106G5413

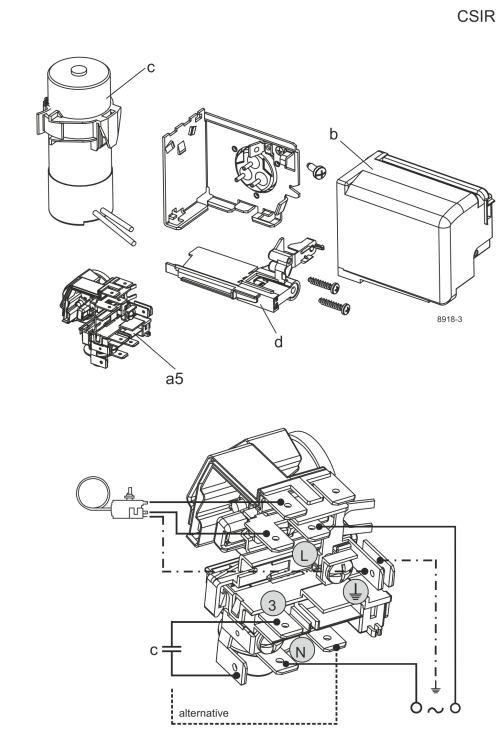
Configuration

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, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
RLA (rated load amps / 1s/ U(N))	**-/-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

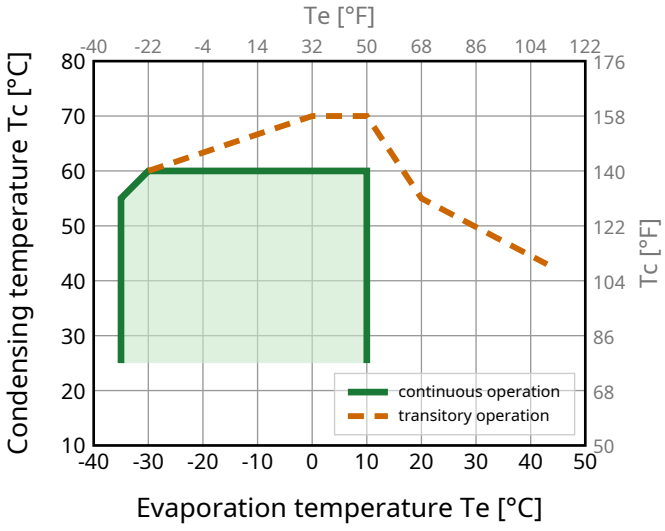


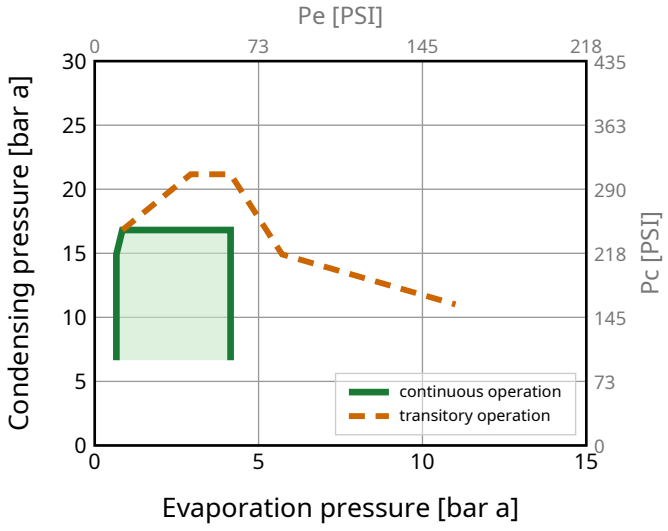
View full size

Components (already pre-assembled)
a5 current relay (T1189/L6-S3) 117U7073
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
KLE4.0GFTX Configuration 2

Sales code:
106G5413

Standard Conditions

R134a, 230 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	**123**	420	106	**1.20**	4.09	102	1.10	2.39	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**261**	890	224	**1.81**	6.18	144	1.19	5.68	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**464**	1585	399	**2.58**	8.80	180	1.28	10.28	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**55**	188	47	**0.76**	2.59	73	1.06	1.21	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**225**	767	193	**1.76**	6.00	128	1.15	5.24	**EN12900 MBP**
5 41	50 122	20 68	50 122	**396**	1353	341	**2.34**	7.99	169	1.25	9.94	**EN12900 HBP**

Performance Tables

R134a, 230 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]
-35	-31	**51**	174	44	**0.71**	2.42	72	1.06	1.10
-30	-22	**75**	257	65	**0.90**	3.07	83	1.07	1.62
-20	-4	**140**	477	120	**1.32**	4.51	106	1.11	3.03
-10	14	**233**	795	200	**1.82**	6.22	128	1.15	5.08
0	32	**362**	1235	311	**2.40**	8.20	151	1.20	7.99
10	50	**535**	1826	460	**3.05**	10.42	175	1.26	11.98
15	59	**641**	2186	551	**3.40**	11.59	189	1.30	14.48

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

-35	-31	**39**	133	33	**0.54**	1.85	72	1.06	0.92
-30	-22	**62**	213	54	**0.73**	2.49	85	1.08	1.48
-20	-4	**121**	414	104	**1.09**	3.72	111	1.12	2.90
-10	14	**203**	692	174	**1.49**	5.08	136	1.17	4.89
0	32	**315**	1074	271	**1.95**	6.65	162	1.23	7.68
10	50	**466**	1589	401	**2.47**	8.44	188	1.30	11.54
15	59	**558**	1904	480	**2.76**	9.40	202	1.34	13.97

Model
KLE4.0GFTX Configuration 3

Sales code:
106G5413

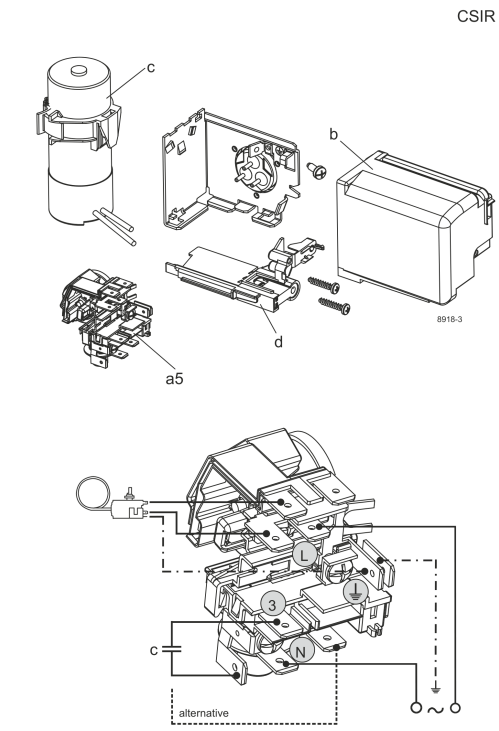
Configuration

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, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.2 A**
RLA (rated load amps / 1s/ U(N))	**1.4 A**
Cut in current (U(N))	**12.65 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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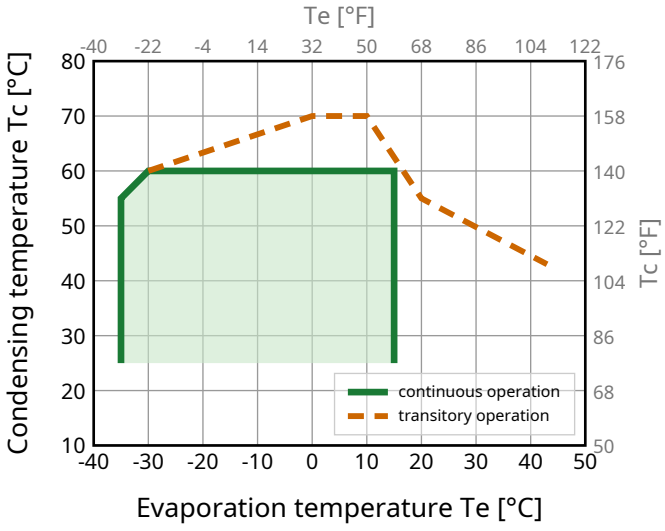
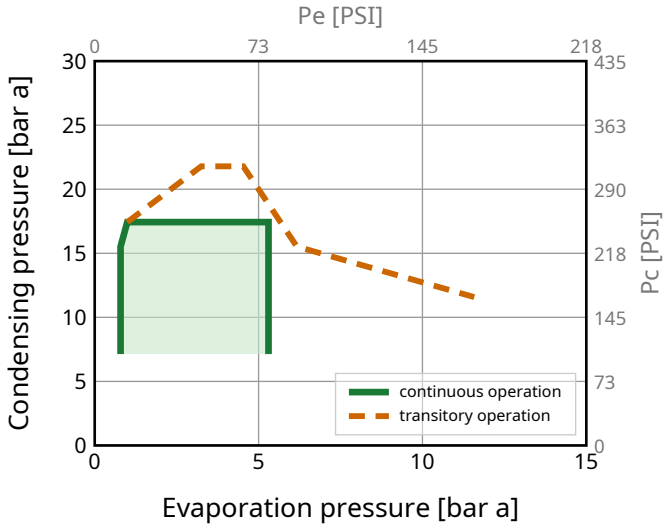
Components (already pre-assembled)
a5 current relay (T1189/L6-S3) 117U7073
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE4.0GFTX Configuration 3

Sales code:

106G5413

Standard Conditions

R513A, 220 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	**112**	381	96	**1.18**	4.02	95	0.93	2.45	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**232**	791	199	**1.76**	6.00	132	1.01	5.78	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**409**	1396	352	**2.55**	8.70	160	1.09	10.40	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**51**	175	44	**0.74**	2.53	69	0.87	1.29	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**199**	680	171	**1.72**	5.87	116	0.97	5.40	**EN12900 MBP**
5 41	50 122	20 68	50 122	**343**	1169	295	**2.29**	7.81	150	1.06	10.10	**EN12900 HBP**

Performance Tables

R513A, 220 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]
-35	-31	**49**	167	42	**0.71**	2.42	69	0.87	1.20
-30	-22	**69**	235	59	**0.88**	2.99	79	0.89	1.70
-20	-4	**126**	430	108	**1.29**	4.40	98	0.93	3.13
-10	14	**209**	713	180	**1.80**	6.16	116	0.97	5.24
0	32	**323**	1101	278	**2.41**	8.24	134	1.02	8.17
10	50	**471**	1606	405	**3.11**	10.62	151	1.06	12.12
15	59	**559**	1908	481	**3.49**	11.92	160	1.09	14.55

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

-35	-31	**40**	136	34	**0.61**	2.07	66	0.87	1.10
-30	-22	**57**	196	49	**0.73**	2.49	78	0.89	1.59
-20	-4	**106**	363	92	**1.03**	3.53	103	0.94	2.96
-10	14	**177**	605	152	**1.41**	4.82	125	0.99	4.97
0	32	**274**	936	236	**1.87**	6.38	147	1.05	7.80
10	50	**402**	1371	345	**2.41**	8.21	167	1.11	11.64
15	59	**478**	1632	411	**2.71**	9.23	177	1.15	14.02

Model
KLE4.0GFTX Configuration 4

Sales code:
106G5413

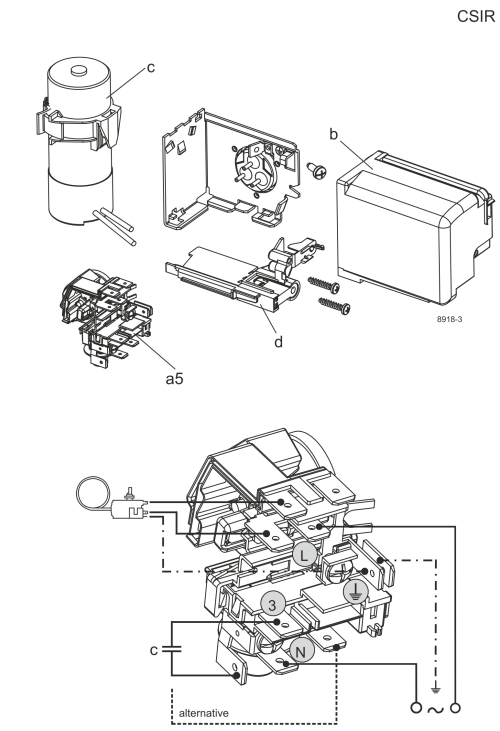
Configuration

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, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
RLA (rated load amps / 1s/ U(N))	**-/-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

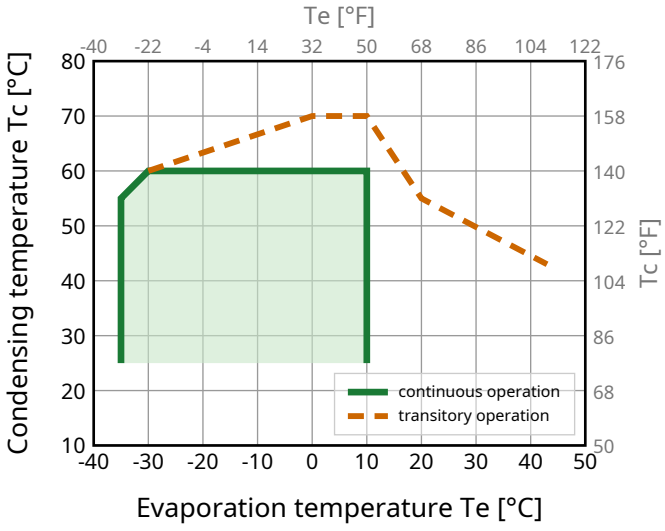


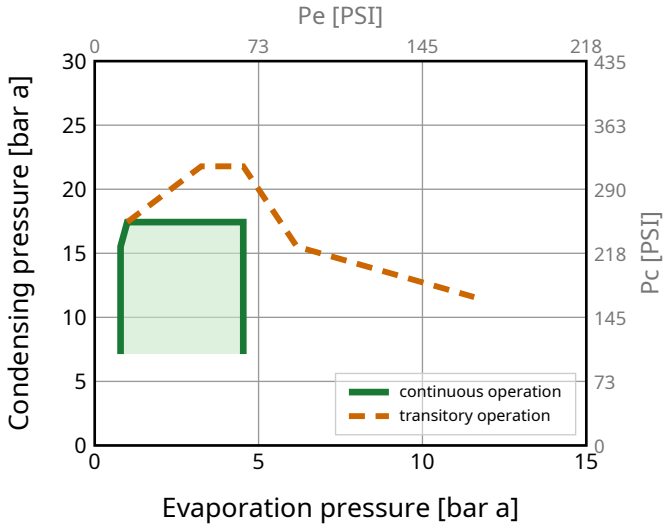
View full size

Components (already pre-assembled)
a5 current relay (T1189/L6-S3) 117U7073
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

KLE4.0GFTX Configuration 4

Sales code:

106G5413

Standard Conditions

R513A, 230 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	**136**	462	117	**1.24**	4.23	109	1.06	2.96	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**274**	934	235	**1.81**	6.16	152	1.19	6.82	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**478**	1631	411	**2.56**	8.72	187	1.27	12.14	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**61**	209	53	**0.77**	2.63	80	0.77	1.54	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**234**	798	201	**1.74**	5.94	134	1.16	6.33	**EN12900 MBP**
5 41	50 122	20 68	50 122	**400**	1363	344	**2.26**	7.72	176	1.24	11.78	**EN12900 HBP**

Performance Tables

R513A, 230 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]
-35	-31	**57**	196	49	**0.73**	2.49	79	0.79	1.41
-30	-22	**83**	283	71	**0.93**	3.16	90	0.93	2.05
-20	-4	**150**	513	129	**1.35**	4.59	112	1.09	3.73
-10	14	**245**	837	211	**1.83**	6.24	134	1.16	6.14
0	32	**376**	1282	323	**2.38**	8.14	158	1.19	9.52
10	50	**548**	1871	472	**3.02**	10.29	182	1.26	14.13
15	59	**653**	2229	562	**3.36**	11.46	194	1.32	17.01

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

-35	-31	**44**	150	38	**0.56**	1.91	79	0.80	1.21
-30	-22	**68**	233	59	**0.74**	2.53	92	0.94	1.89
-20	-4	**128**	438	111	**1.09**	3.71	118	1.10	3.57
-10	14	**210**	718	181	**1.46**	5.00	144	1.17	5.90
0	32	**321**	1097	276	**1.90**	6.48	169	1.22	9.14
10	50	**469**	1601	404	**2.41**	8.22	195	1.30	13.59
15	59	**559**	1908	481	**2.69**	9.18	208	1.38	16.40