

Model

Designation	KLE7.7GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5813
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	7,7cm³ / 0,47cu.in
Oil quantity	240cm³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	250g / 8,8oz		
Free gas volume comp.	1505cm³ / 50,9fl.oz		
Weight	9,6kg / 21,2lbs		
Motor protection	external		
Winding resistance main	8,4Ω (at 25°C)		
Winding resistance aux	11,9Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		
Additional note	Good robustness against liquid intake. Ice-cube maker optimization - indirect suction intake.		



General - Configurations with KLE7.7GFTX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	220-240V/50Hz	208-230V/60Hz	220-240V/50Hz	208-230V/60Hz
Number of phases	1	1	1	1
Voltage range	187-254V	198-253V	187-254V	198-253V
Approvals	VDE, CB, UL	VDE, CB, UL	VDE, CB, UL	VDE, CB, UL
Starting torque	HST	HST	HST	HST
Note	Electrical equipment is included and pre-assembled to compressor.			

Applications with KLE7.7GFTX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Refrigerant	R134a	R134a	R513A	R513A
Application	LBP+MBP+HBP	LBP+MBP	LBP+MBP+HBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

Electrical data - Configurations with KLE7.7GFTX

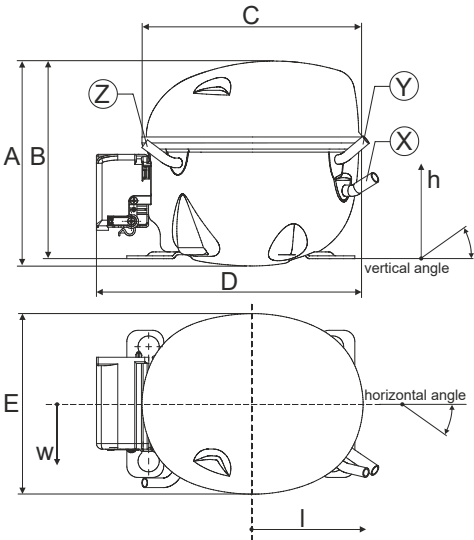
	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Starting device type	relay	relay	relay	relay
Run capacitor	-/-	-/-	-/-	-/-
Start capacitor	80μF	80μF	80μF	80μF
LRA (locked rotor amps / 4s/ U(N))	13,4A	13,2A	13,4A	13,2A
RLA (rated load amps / 1s/ U(N))	1,8A	2A	1,8A	2A
Cut in current (U(N))	12,3A	12,3A	12,3A	12,3A

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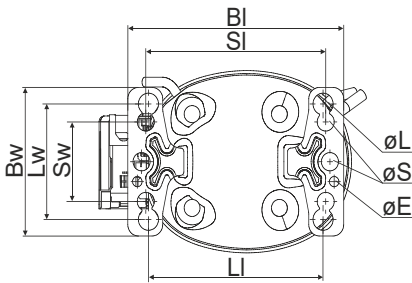
Compressor dimensions

Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	198mm / 7,8in
	D Length w. cover	238mm / 9,37in
	E Width	160mm / 6,3in

Connectors		Suction X	Discharge Y	Process Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
	[in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	119/73/59	117/107/66	-88/101/71
	[in]	4,7/2,9/2,3	4,6/4,2/2,6	-3,5/4/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

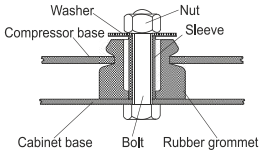


Compressor fixation

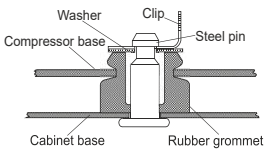


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories	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

Application notes

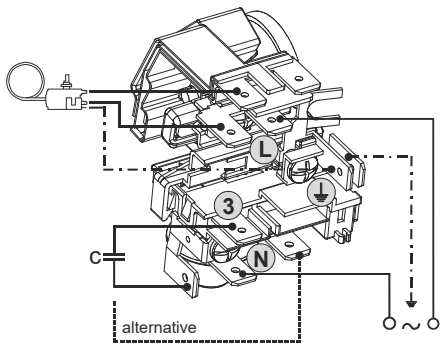
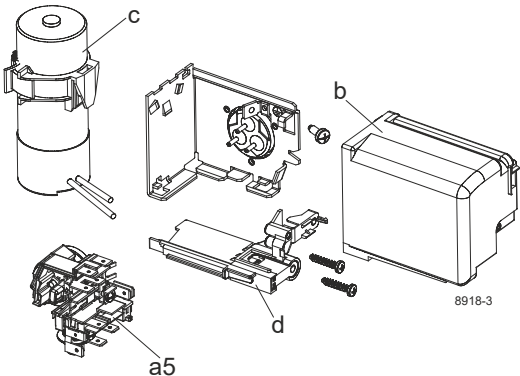
Provision for PE Grounding is located at the PE Stamp on the compressor

Suctiongas connector and Process connector can be switched (minor loss of cooling capacity)

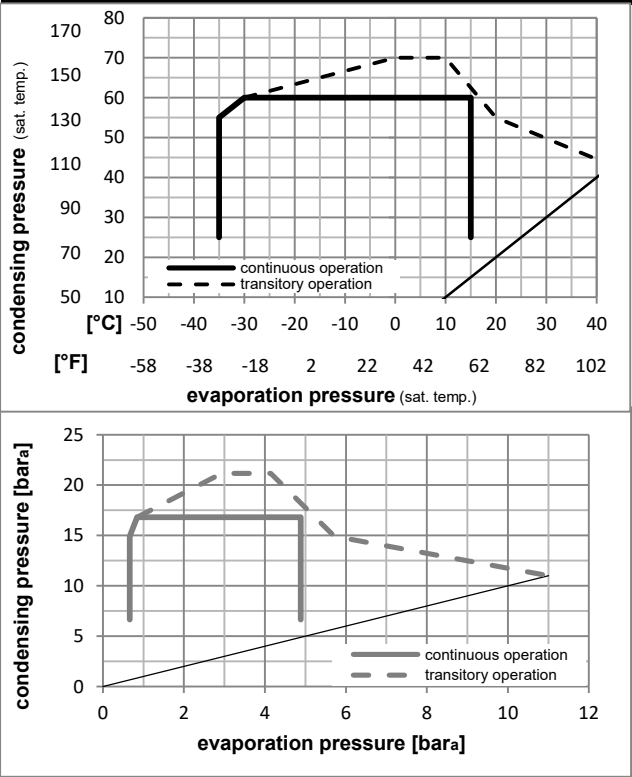
Model				
Designation	KLE7.7GFTX	220-240V/50Hz	Conf. 1	Sales code: 106G5813
Configuration		Electrical accessories / wiring diagram		
Motor configuration	CSIR	CSIR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R134a			
Application	LBP+MBP+HBP			
Voltage range	187-254V			
Starting torque	HST			
Approvals	VDE			
	CB			
	UL			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



Components (incl. and pre. assembl.)

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

Alternative comp.

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

Model

Designation **KLE7.7GFTX** **220-240V/50Hz** Conf. 1 Sales code: **106G5813**

Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	221,3	756	190,5	1,33	4,53	1,14	166,9	1,35	4,30	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	452,8	1547	389,7	1,82	6,20	1,56	249,5	1,65	9,88	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	791,8	2704	681,4	2,41	8,23	2,07	328,4	1,99	17,57	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	115,0	393	99,0	1,02	3,48	0,88	112,9	1,21	2,52	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	394,8	1348	339,8	1,83	6,23	1,57	216,3	1,52	9,24	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	677,6	2314	583,1	2,26	7,72	1,95	299,8	1,86	17,07	EN12900 HBP
[°F]	41	122	68	122										

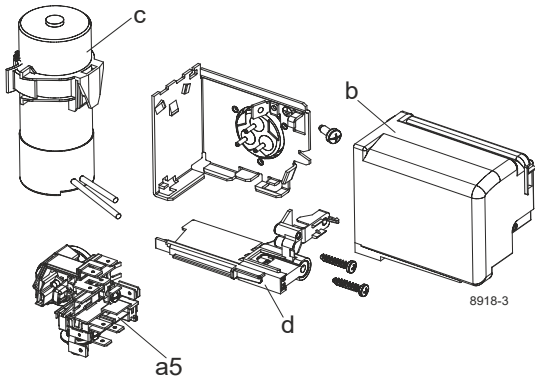
Performance tables

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	109,3	373	94,0	0,96	3,28	0,83	113,8	1,21	2,36
cond. pressure	-25	-13	192,8	658	165,9	1,25	4,27	1,07	154,3	1,31	4,18
pc= 45/113	-15	5	323,8	1106	278,6	1,66	5,66	1,43	195,4	1,44	7,06
return gas temp.	-10	14	409,6	1399	352,5	1,89	6,47	1,63	216,3	1,52	8,97
RGT= 32/90	0	32	627,2	2142	539,8	2,42	8,27	2,08	259,0	1,69	13,87
liquid temp	5	41	761,0	2599	654,9	2,71	9,25	2,33	280,9	1,78	16,94
Tliq= 45/113	15	59	1083,6	3701	932,5	3,32	11,34	2,86	326,2	1,97	24,54
[°C / °F]	-35	-31	86,9	297	74,8	0,75	2,55	0,64	116,3	1,22	2,07
cond. pressure	-25	-13	162,7	555	140,0	1,02	3,48	0,88	159,7	1,32	3,89
pc= 55/131	-15	5	277,5	948	238,8	1,34	4,57	1,15	207,3	1,48	6,68
return gas temp	-10	14	352,1	1203	303,1	1,51	5,17	1,30	232,8	1,58	8,51
RGT= 32/90	0	32	540,9	1847	465,5	1,88	6,42	1,62	287,6	1,81	13,23
liquid temp	5	41	657,1	2244	565,5	2,07	7,08	1,78	317,0	1,94	16,19
Tliq= 55/131	15	59	938,3	3204	807,5	2,47	8,43	2,13	380,0	2,22	23,57

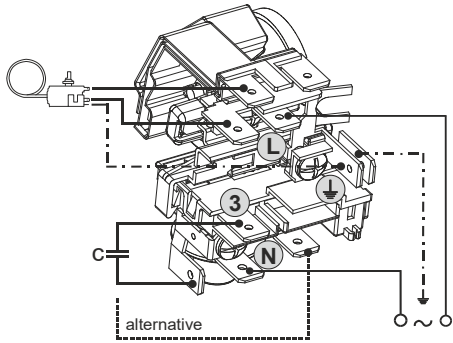
Model				
Designation	KLE7.7GFTX	208-230V/60Hz	Conf. 2	Sales code: 106G5813

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

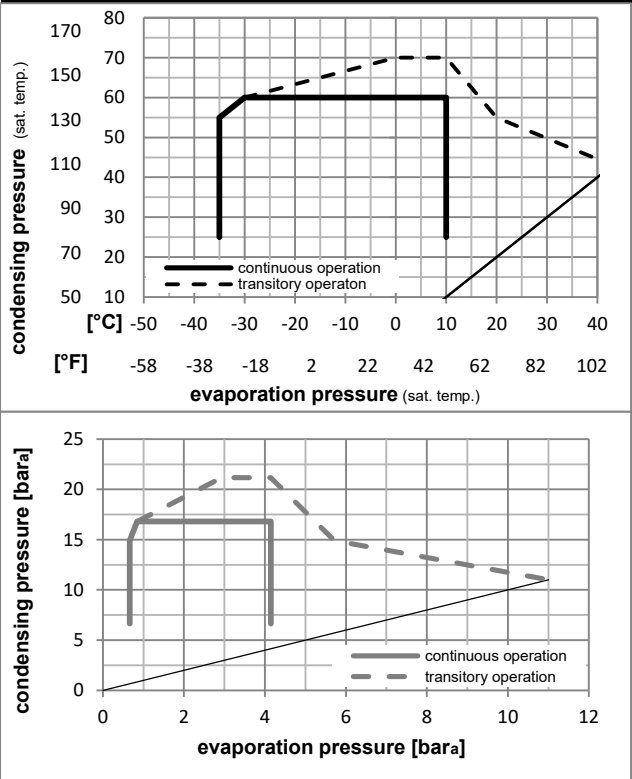


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



Components (incl. and pre. assembl.)

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

Alternative comp.

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

Model

Designation	KLE7.7GFTX	208-230V/60Hz	Conf. 2	Sales code:	106G5813
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Optimization + standard conditions

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, UL

[illegible]

Performance tables

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, UL

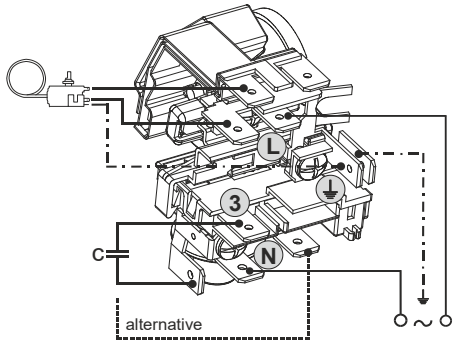
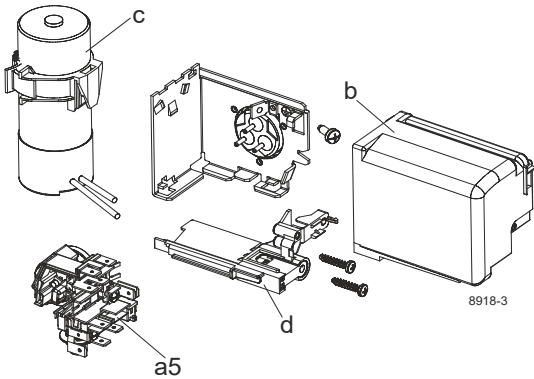
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	128,3	438	110,4	1,06	3,61	0,91	121,4	1,13	2,77
cond. pressure	-25	-13	230,1	786	198,0	1,30	4,45	1,12	176,4	1,27	4,98
pc= 45/113	-15	5	386,4	1320	332,6	1,70	5,80	1,46	227,6	1,43	8,42
return gas temp.	-10	14	488,6	1669	420,5	1,93	6,61	1,67	252,5	1,51	10,69
RGT= 32/90	0	32	747,9	2554	643,6	2,47	8,44	2,13	302,5	1,69	16,54
liquid temp	5	41	907,7	3100	781,2	2,77	9,45	2,38	328,0	1,79	20,21
Tliq= 45/113	15	59	1295,0	4423	1114,5	3,39	11,58	2,92	381,9	2,00	29,33
[°C / °F]	-35	-31	102,3	349	88,1	0,84	2,85	0,72	122,4	1,14	2,44
cond. pressure	-25	-13	195,1	666	167,9	1,07	3,66	0,92	181,8	1,29	4,67
pc= 55/131	-15	5	332,4	1135	286,0	1,38	4,70	1,18	241,5	1,47	8,00
return gas temp	-10	14	421,2	1438	362,5	1,55	5,29	1,33	272,1	1,58	10,18
RGT= 32/90	0	32	646,1	2207	556,0	1,92	6,56	1,65	336,5	1,82	15,80
liquid temp	5	41	785,0	2681	675,6	2,12	7,23	1,82	370,9	1,96	19,34
Tliq= 55/131	15	59	1122,7	3834	966,2	2,52	8,61	2,17	445,3	2,26	28,20

Model					
Designation	KLE7.7GFTX	220-240V/50Hz	Conf. 3	Sales code:	106G5813

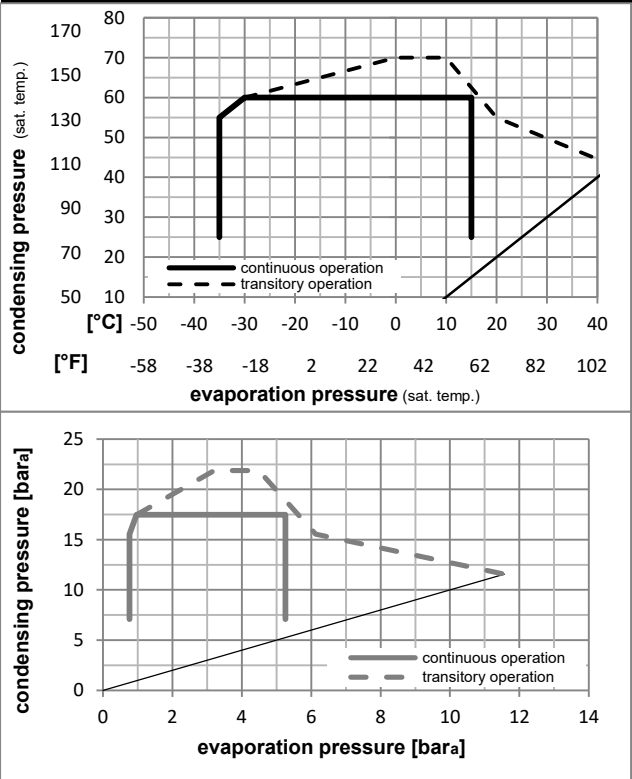
Configuration	Electrical accessories / wiring diagram				
Motor configuration	CSIR	CSIR			
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R513A				
Application	LBP+MBP+HBP				
Voltage range	187-254V				
Starting torque	HST				
Approvals	VDE				
	CB				
	UL				

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



Components (incl. and pre. assembl.)

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

Alternative comp.

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

Model

Designation **KLE7.7GFTX 220-240V/50Hz** Conf. 3 Sales code: **106G5813**

Optimization + standard conditions

R513A, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP			EER			Power consumption			Current consumption			Ref. mass flow		
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]	P1	I	m	[W]	[A]	[kg/h]
[°C]	-23	54	32	32	244,4	835	210,3	1,34	4,59	1,16	181,8	1,40	5,26	ASHRAE LBP																
[°F]	-10	130	90	90																										
[°C]	-7	54	35	46	474,7	1621	408,5	1,79	6,12	1,54	265,0	1,71	11,63	ASHRAE MBP																
[°F]	20	130	95	115																										
[°C]	7,2	54	35	46	813,1	2777	699,7	2,36	8,07	2,03	344,1	2,06	20,20	ASHRAE HBP																
[°F]	45	130	95	115																										
[°C]	-35	40	20	40	128,1	437	110,2	1,04	3,54	0,89	123,5	1,22	3,17	EN12900 LBP																
[°F]	-31	104	68	104																										
[°C]	-10	45	20	45	412,3	1408	354,8	1,79	6,12	1,54	230,2	1,57	10,93	EN12900 MBP																
[°F]	14	113	68	113																										
[°C]	5	50	20	50	686,9	2346	591,2	2,18	7,46	1,88	314,5	1,92	19,70	EN12900 HBP																
[°F]	41	122	68	122																										

Performance tables

R513A, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

	pe		Cooling capacity			COP		EER		P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[kg/h]
[°C / °F]	-35	-31	122,6	419	105,5	0,98	3,35	0,84	125,1	1,23	2,98				
cond. pressure	-25	-13	209,5	715	180,3	1,25	4,27	1,08	167,6	1,35	5,11				
pc= 45/113	-15	5	343,9	1174	295,9	1,64	5,61	1,41	209,3	1,49	8,43				
return gas temp.	-10	14	431,1	1472	371,0	1,87	6,40	1,61	230,2	1,57	10,60				
RGT= 32/90	0	32	650,0	2220	559,4	2,38	8,14	2,05	272,7	1,74	16,12				
liquid temp	5	41	783,4	2675	674,2	2,66	9,09	2,29	294,4	1,84	19,54				
Tliq= 45/113	15	59	1102,7	3766	949,0	3,25	11,08	2,79	339,7	2,04	27,90				
[°C / °F]	-35	-31	97,6	333	84,0	0,75	2,58	0,65	129,4	1,24	2,66				
cond. pressure	-25	-13	174,8	597	150,4	1,00	3,42	0,86	174,5	1,37	4,79				
pc= 55/131	-15	5	290,4	992	249,9	1,30	4,45	1,12	222,8	1,54	8,00				
return gas temp	-10	14	364,8	1246	313,9	1,47	5,01	1,26	248,4	1,64	10,09				
RGT= 32/90	0	32	551,1	1882	474,3	1,82	6,21	1,56	303,3	1,88	15,39				
liquid temp	5	41	664,9	2271	572,2	2,00	6,83	1,72	332,7	2,01	18,69				
Tliq= 55/131	15	59	938,0	3203	807,3	2,37	8,08	2,04	396,2	2,30	26,79				

Model

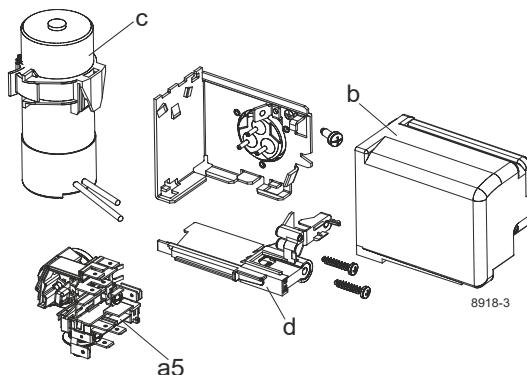
Designation	KLE7.7GFTX	208-230V/60Hz	Conf. 4	Sales code:	106G5813
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Configuration

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

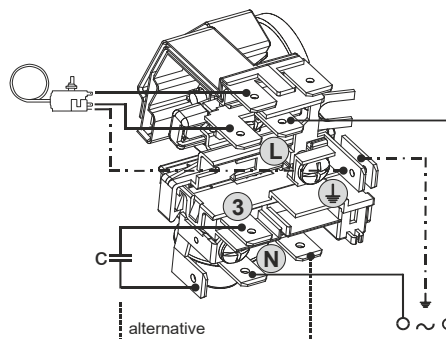
Electrical accessories / wiring diagram

CSIR

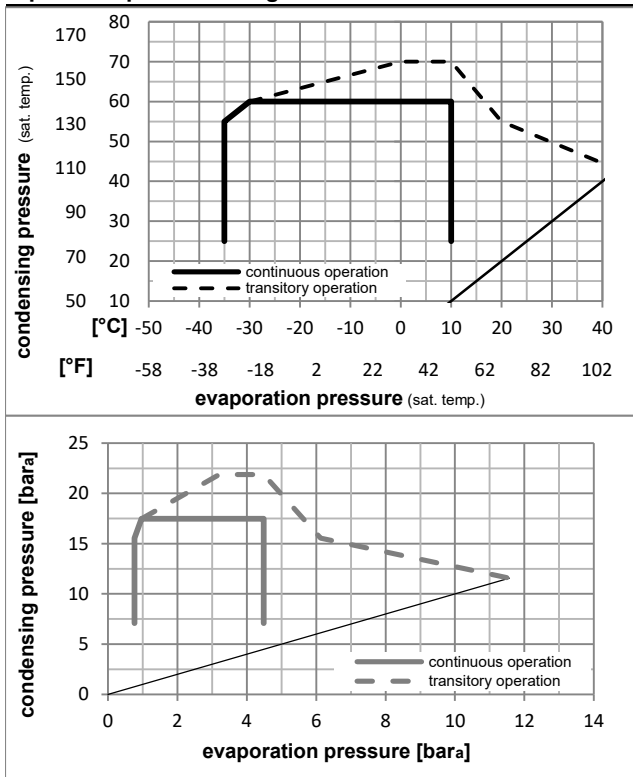


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range

Components (incl. and pre. assembl.)

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b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative comp.

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

Model

Designation **KLE7.7GFTX** **208-230V/60Hz** Conf. 4 Sales code: **106G5813**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	293,2	1001	252,3	1,41	4,81	1,21	208,2	1,36	6,31	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	567,5	1938	488,4	1,83	6,25	1,57	310,2	1,72	13,90	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	971,9	3319	836,4	2,41	8,24	2,08	402,6	2,08	24,14	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	150,9	515	129,8	1,13	3,87	0,97	133,3	1,15	3,73	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	491,9	1680	423,3	1,83	6,25	1,57	268,8	1,57	13,04	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	820,4	2802	706,1	2,23	7,62	1,92	367,9	1,94	23,52	EN12900 HBP
[°F]	41	122	68	122										

Performance tables

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

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	144,1	492	124,0	1,07	3,65	0,92	134,8	1,16	3,50
cond. pressure	-25	-13	250,1	854	215,2	1,31	4,46	1,12	191,5	1,31	6,10
pc= 45/113	-15	5	410,6	1402	353,3	1,68	5,75	1,45	243,7	1,48	10,06
return gas temp.	-10	14	514,3	1757	442,6	1,91	6,53	1,65	268,8	1,57	12,65
RGT= 32/90	0	32	775,2	2647	667,1	2,43	8,30	2,09	318,8	1,75	19,23
liquid temp	5	41	934,7	3192	804,4	2,72	9,28	2,34	344,1	1,85	23,31
Tliq= 45/113	15	59	1318,3	4502	1134,5	3,32	11,33	2,86	397,2	2,06	33,35
[°C / °F]	-35	-31	115,1	393	99,0	0,84	2,86	0,72	137,4	1,17	3,14
cond. pressure	-25	-13	209,7	716	180,5	1,06	3,61	0,91	198,6	1,34	5,74
pc= 55/131	-15	5	347,9	1188	299,4	1,34	4,58	1,15	259,4	1,53	9,58
return gas temp	-10	14	436,4	1490	375,6	1,50	5,13	1,29	290,4	1,64	12,07
RGT= 32/90	0	32	658,5	2249	566,7	1,85	6,33	1,60	355,1	1,89	18,39
liquid temp	5	41	794,6	2714	683,8	2,04	6,97	1,76	389,4	2,03	22,33
Tliq= 55/131	15	59	1123,0	3835	966,4	2,42	8,28	2,09	463,4	2,33	32,07