

Model

Designation	KLE4.0GFMX	100V/50Hz 1~100-127V/60Hz 1~	Sales code:	106G6413
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	4cm ³ / 0,24cu.in
Oil quantity	200cm ³ / 6,8fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	1630cm ³ / 55,1fl.oz		
Weight	8,3kg / 18,3lbs		
Motor protection	external		
Winding resistance main	3,4Ω (at 25°C)		
Winding resistance aux	8Ω (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 KLE4.0GFMX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Motorconfiguration	CSIR	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	115-127V/60Hz	100-127V/60Hz	100V/50Hz	115-127V/60Hz	100-127V/60Hz
Number of phases	1	1	1	1	1
Voltage range	95-140V	90-140V	90-110V	95-140V	90-140V
Approvals	UL, CB	UL, CB	UL, CB	UL, CB	UL, CB
Starting torque	HST	HST	HST	HST	HST
Note	Electrical equipment is included and pre-assembled to compressor.				

Applications with KLE4.0GFMX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Refrigerant	R134a	R134a	R134a	R513A	R513A
Application	LBP+MBP+HBP	LBP+MBP	MBP	LBP+MBP+HBP	LBP+MBP
System cooling	static	static	static	static	static
Hot gas defrost	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK	OK

Electrical data - Configurations with KLE4.0GFMX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Starting device type	relay	relay	relay	relay	relay
Run capacitor	-/-	-/-	-/-	-/-	-/-
Start capacitor	240μF	240μF	240μF	240μF	240μF
LRA (locked rotor amps / 4s/ U(N))	21,2A			21,2A	
RLA (rated load amps / 1s/ U(N))	2,7A			2,7A	
Cut in current (U(N))	20,5A			20,5A	

Model			
Designation	KLE4.0GFMX	100V/50Hz 1~100-127V/60Hz 1~	Sales code: 106G6413

Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	4cm³ / 0,24cu.in
Oil quantity	200cm³ / 6,8fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	1630cm³ / 55,1fl.oz		
Weight	8,3kg / 18,3lbs		
Motor protection	external		
Winding resistance main	3,4Ω (at 25°C)		
Winding resistance aux	8Ω (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 KLE4.0GFMX

	Conf. 6
Motorconfiguration	CSIR
Power supply (nominal)	100V/50Hz
Number of phases	1
Voltage range	90-110V
Approvals	UL, CB
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with KLE4.0GFMX

	Conf. 6
Refrigerant	R513A
Application	MBP
System cooling	static
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with KLE4.0GFMX

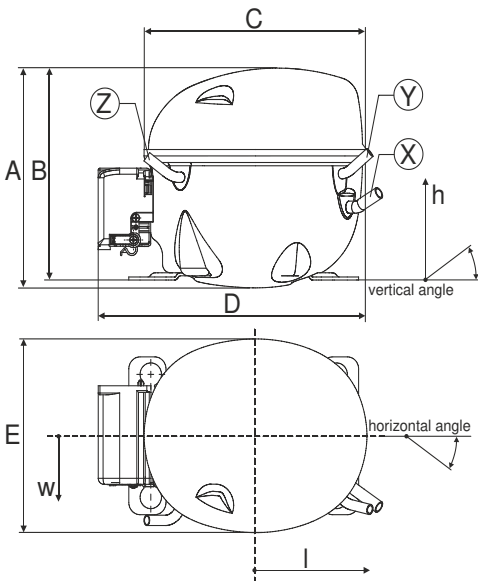
	Conf. 6
Starting device type	relay
Run capacitor	-/-
Start capacitor	240µF
LRA (locked rotor amps / 4s/ U(N))	
RLA (rated load amps / 1s/ U(N))	
Cut in current (U(N))	

Model			
Designation	KLE4.0GFMX	100V/50Hz 1~100-127V/60Hz 1~	Sales code: 106G6413

Compressor dimensions

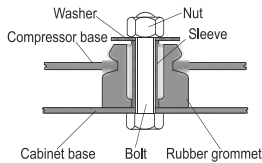
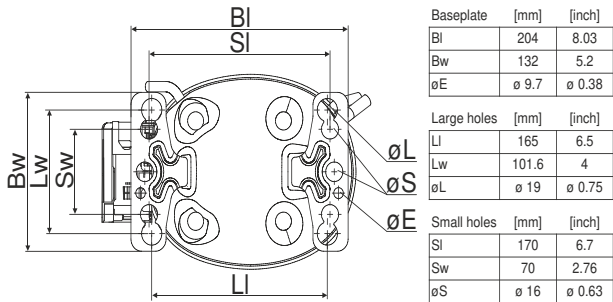
Housing	A Height	182mm / 7,17in	
	B Height	175mm / 6,89in	
	C Length shell	198mm / 7,8in	
	D Length w. cover	238mm / 9,37in	
	E Width	160mm / 6,3in	

Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
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

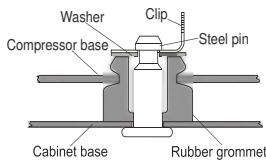


Compressor fixation

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

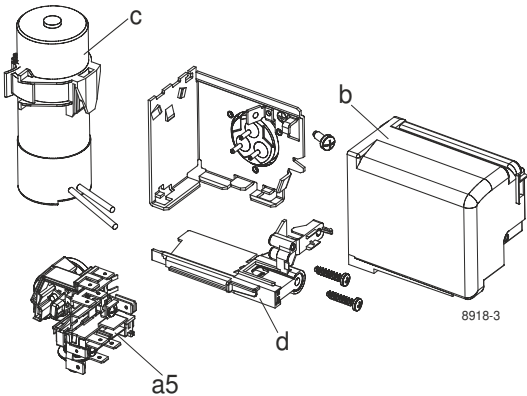
Application notes

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)

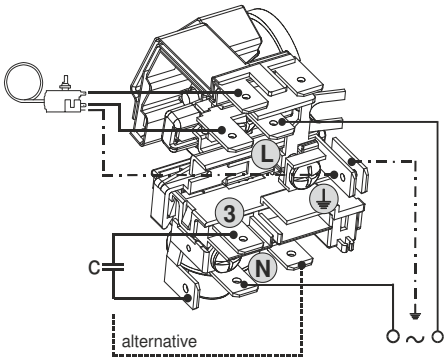
Model				
Designation	KLE4.0GFMX	115-127V/60Hz	Conf. 1	Sales code: 106G6413

Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	CSIR	CSIR	
Power supply (nominal)	115-127V/60Hz 1~		
Refrigerant	R134a		
Application	LBP+MBP+HBP		
Voltage range	95-140V		
Starting torque	HST		
Approvals	UL		
	CB		

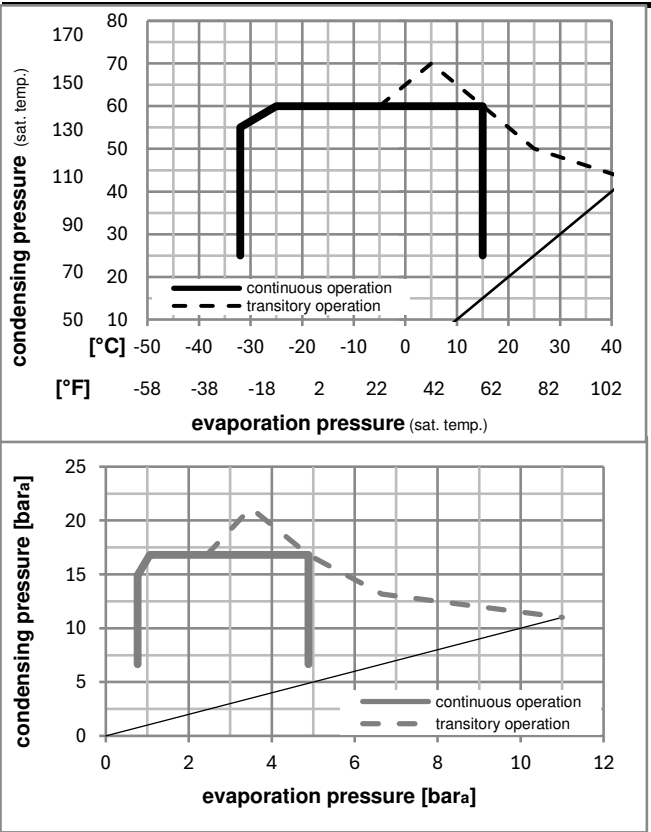


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components (incl. and pre. assembl.)

a5	current relay (T0377/L6 S1)	117U7081
c	start capacitor (240μF)	117U5002
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 **KLE4.0GFMX 115-127V/60Hz** Conf. 1 Sales code: **106G6413**

Optimization + standard conditions

R134a, 120V/60Hz, CSIR, static, UL, CB

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]	P1	I	m	
											[W]	[A]	[kg/h]	
[°C]	-23	54	32	32	117,1	400	100,7	1,17	4,01	1,01	99,8	1,73	2,27	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	258,6	883	222,6	1,80	6,16	1,55	143,4	1,97	5,64	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	481,3	1644	414,2	2,62	8,94	2,25	183,9	2,22	10,68	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	64,0	218	55,0	0,86	2,95	0,74	74,1	1,62	1,40	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	233,4	797	200,9	1,83	6,24	1,57	127,8	1,87	5,46	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	411,9	1407	354,5	2,42	8,27	2,08	170,1	2,13	10,38	EN12900 HBP
[°F]	41	122	68	122										

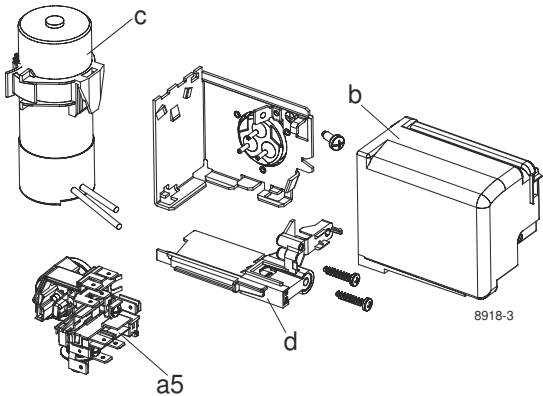
Performance tables

R134a, 120V/60Hz, CSIR, static, UL, CB

	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]	-23	-10	120,1	410	103,3	1,22	4,17	1,05	98,3	1,73	2,60
cond. pressure	-23	-10	120,1	410	103,3	1,22	4,17	1,05	98,3	1,73	2,60
pc= 45/113	-15	5	188,9	645	162,6	1,62	5,53	1,39	116,6	1,82	4,12
return gas temp.	-9	15	248,7	849	214,0	1,93	6,58	1,66	129,1	1,88	5,44
RGT= 32/90	0	32	381,0	1301	327,9	2,52	8,62	2,17	150,9	2,00	8,43
liquid temp	7,2	45	512,5	1750	441,1	3,05	10,41	2,62	168,2	2,11	11,45
Tliq= 45/113	10	50	571,0	1950	491,4	3,26	11,15	2,81	174,9	2,16	12,81
[°C / °F]	-23	-10	94,9	324	81,7	0,95	3,24	0,82	100,0	1,73	2,27
cond. pressure	-23	-10	94,9	324	81,7	0,95	3,24	0,82	100,0	1,73	2,27
pc= 55/131	-15	5	152,8	522	131,5	1,26	4,30	1,08	121,3	1,84	3,68
return gas temp	-9	15	203,7	696	175,3	1,50	5,11	1,29	136,3	1,92	4,93
RGT= 32/90	0	32	318,2	1087	273,9	1,95	6,66	1,68	163,2	2,08	7,78
liquid temp	7,2	45	433,8	1482	373,3	2,34	8,01	2,02	185,0	2,23	10,73
Tliq= 55/131	10	50	485,6	1658	417,9	2,51	8,56	2,16	193,7	2,29	12,07

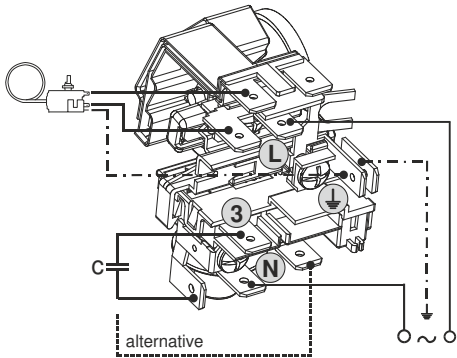
Model					
Designation	KLE4.0GFMX	100-127V/60Hz	Conf. 2	Sales code:	106G6413

Configuration		Electrical accessories / wiring diagram			
Motorconfiguration	CSIR	CSIR			
Power supply (nominal)	100-127V/60Hz 1~				
Refrigerant	R134a				
Application	LBP+MBP				
Voltage range	90-140V				
Starting torque	HST				
Approvals	UL				
	CB				

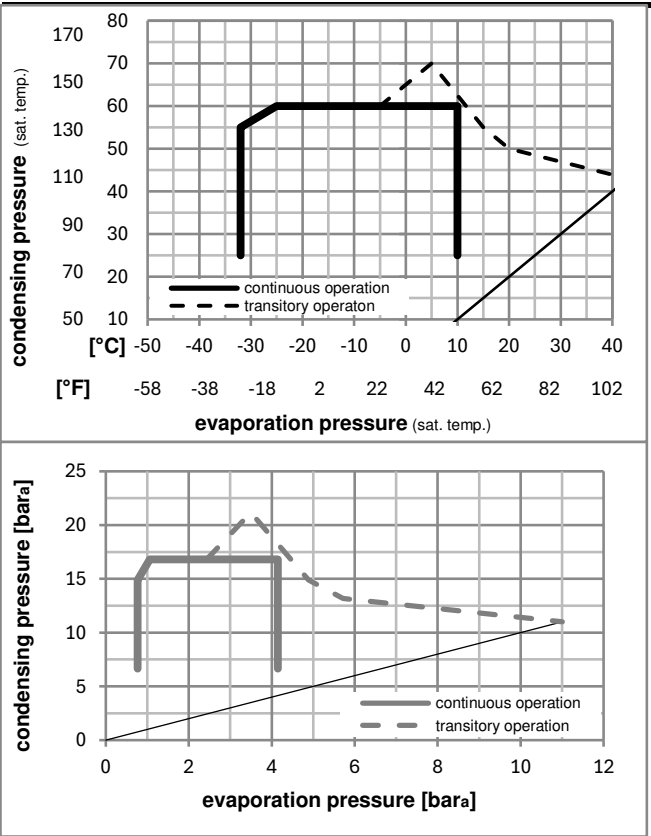


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components (incl. and pre. assembl.)

a5	current relay (T0377/L6 S1)	117U7081
c	start capacitor (240μF)	117U5002
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 **KLE4.0GFMX** **100-127V/60Hz** Conf. 2 Sales code: **106G6413**

Optimization + standard conditions

R134a, 100V/60Hz, CSIR, static, UL, CB

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]				P1				I				m			
[°C]				[°F]				[°C]				[°F]				[W]				[Btu/h]				[kcal/h]				[W]				[A]				[kg/h]			
-23				54				32				32				134,9				461				116,1				1,46				4,99				1,26			
-10				130				90				90																92,2				1,54				2,62			
-7				54				35				46				288,9				987				248,6				2,11				7,21				1,82			
20				130				95				115																136,8				1,86				6,30			
7,2				54				35				46				520,4				1777				447,9				3,12				10,64				2,68			
45				130				95				115																167,0				2,12				11,55			
-35				40				20				40				67,1				229				57,8				0,98				3,34				0,84			
-31				104				68				104																68,6				1,42				1,47			
-10				45				20				45				256,1				875				220,4				2,15				7,34				1,85			
14				113				68				113																119,2				1,72				5,99			
5				50				20				50				445,4				1521				383,3				2,89				9,85				2,48			
41				122				68				122																154,4				2,01				11,22			

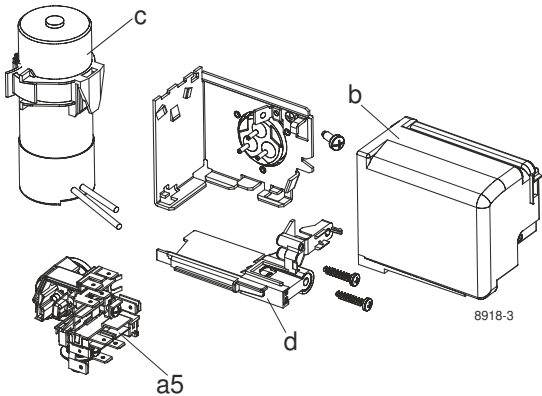
Performance tables

R134a, 100V/60Hz, CSIR, static, UL, CB

	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]	-32	-26	76,7	262	66,0	1,05	3,58	0,90	73,2	1,44	1,66
cond. pressure	-23	-10	134,2	458	115,5	1,49	5,08	1,28	90,2	1,52	2,91
pc= 45/113	-15	5	209,0	714	179,9	1,93	6,59	1,66	108,4	1,64	4,56
return gas temp.	-9	15	272,6	931	234,6	2,26	7,73	1,95	120,4	1,73	5,97
RGT= 32/90	0	32	412,1	1407	354,6	2,98	10,16	2,56	138,5	1,87	9,11
liquid temp	7,2	45	550,2	1879	473,5	3,70	12,64	3,19	148,7	1,96	12,29
Tliq= 45/113	10	50	611,6	2089	526,4	4,04	13,80	3,48	151,4	1,99	13,72
[°C / °F]	-32	-26	56,6	193	48,7	0,80	2,73	0,69	70,8	1,42	1,35
cond. pressure	-23	-10	109,0	372	93,8	1,18	4,03	1,02	92,3	1,54	2,61
pc= 55/131	-15	5	174,4	595	150,1	1,52	5,18	1,30	115,1	1,69	4,20
return gas temp	-9	15	229,3	783	197,3	1,76	6,01	1,52	130,2	1,81	5,55
RGT= 32/90	0	32	349,5	1193	300,7	2,27	7,76	1,96	153,8	2,00	8,55
liquid temp	7,2	45	469,0	1602	403,6	2,79	9,52	2,40	168,3	2,13	11,60
Tliq= 55/131	10	50	522,4	1784	449,6	3,02	10,33	2,60	172,7	2,17	12,99

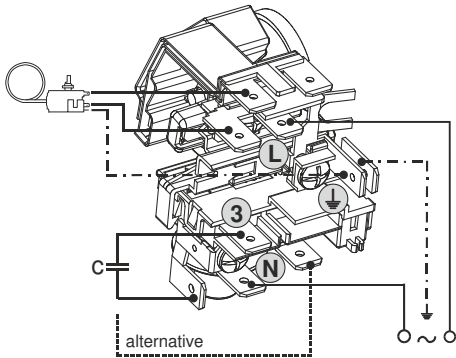
Model					
Designation	KLE4.0GFMX	100V/50Hz	Conf. 3	Sales code:	106G6413

Configuration		Electrical accessories / wiring diagram			
Motorconfiguration	CSIR	CSIR			
Power supply (nominal)	100V/50Hz 1~				
Refrigerant	R134a				
Application	MBP				
Voltage range	90-110V				
Starting torque	HST				
Approvals	UL				
	CB				

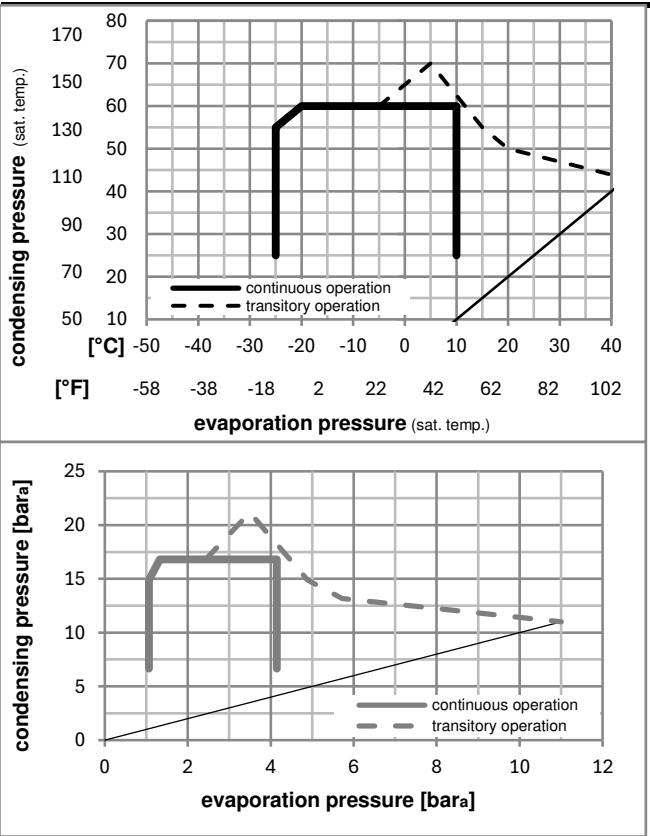


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components (incl. and pre. assembl.)

a5	current relay (T0377/L6 S1)	117U7081
c	start capacitor (240μF)	117U5002
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	KLE4.0GFMX	100V/50Hz	Conf. 3	Sales code:	106G6413
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Optimization + standard conditions

R134a, 100V/50Hz, CSIR, static, UL, CB

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]				P1				I				m			
[°C]				[°F]				[°C]				[°F]				[W]				[Btu/h]				[kcal/h]				[W]				[A]				[kg/h]			
ASHRAE LBP				ASHRAE MBP				ASHRAE HBP				EN12900 LBP				EN12900 MBP				EN12900 HBP																			
-23				54				32				32				112,6				385				96,9				85,8				1,79				2,19			
-10				130				90				90																											
-7				54				35				46				241,5				825				207,9				120,7				1,97				5,27			
20				130				95				115																											
7,2				54				35				46				435,5				1487				374,8				144,9				2,12				9,66			
45				130				95				115																											
-35				40				20				40				56,0				191				48,2				69,5				1,72				1,23			
-31				104				68				104																											
-10				45				20				45				214,0				731				184,1				106,6				1,89				5,01			
14				113				68				113																											
5				50				20				50				372,6				1273				320,7				134,8				2,06				9,39			
41				122				68				122																											

Performance tables

R134a, 100V/50Hz, CSIR, static, UL, CB

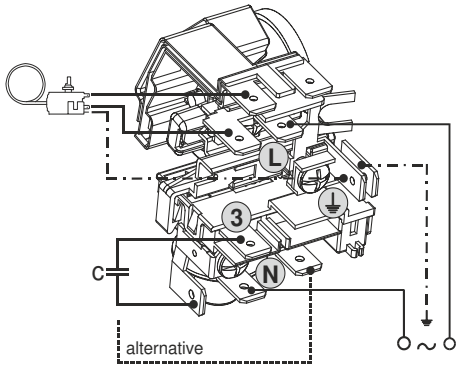
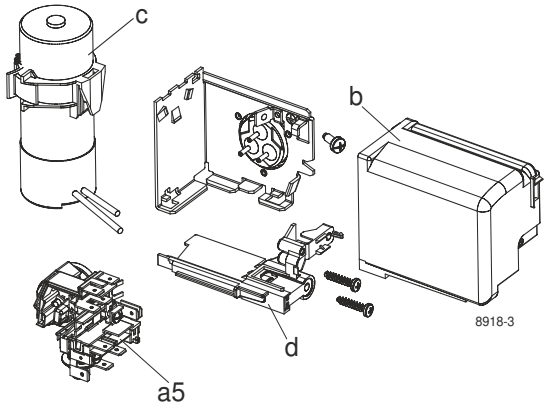
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-25	-13	101,6	347	87,5	1,25	4,25	1,07	81,6	1,77	2,20
cond. pressure	-23	-10	112,0	383	96,4	1,33	4,55	1,15	84,2	1,78	2,43
pc= 45/113	-15	5	174,6	596	150,2	1,78	6,08	1,53	98,0	1,85	3,80
return gas temp.	-9	15	227,8	778	196,0	2,12	7,23	1,82	107,5	1,90	4,99
RGT= 32/90	0	32	344,5	1177	296,5	2,82	9,64	2,43	122,1	1,98	7,62
liquid temp	4,4	40	412,7	1410	355,2	3,24	11,05	2,79	127,5	2,01	9,18
Tliq= 45/113	10	50	511,6	1747	440,3	3,87	13,20	3,33	132,3	2,04	11,48
[°C / °F]	-25	-13	81,7	279	70,3	0,99	3,38	0,85	82,7	1,77	1,95
cond. pressure	-23	-10	91,0	311	78,3	1,06	3,62	0,91	85,9	1,79	2,18
pc= 55/131	-15	5	145,7	498	125,4	1,41	4,81	1,21	103,4	1,88	3,51
return gas temp	-9	15	191,7	655	164,9	1,66	5,67	1,43	115,4	1,94	4,64
RGT= 32/90	0	32	292,3	998	251,6	2,18	7,43	1,87	134,3	2,05	7,15
liquid temp	4,4	40	351,3	1200	302,4	2,48	8,46	2,13	141,9	2,10	8,65
Tliq= 55/131	10	50	437,2	1493	376,3	2,93	10,00	2,52	149,4	2,16	10,87

Model					
Designation	KLE4.0GFMX	115-127V/60Hz	Conf. 4	Sales code:	106G6413

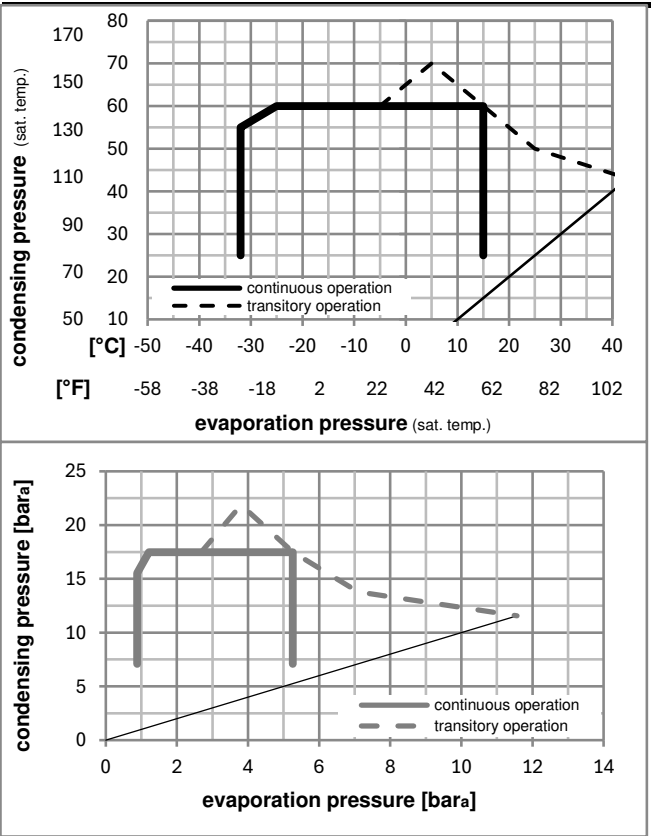
Configuration		Electrical accessories / wiring diagram			
Motorconfiguration	CSIR	CSIR			
Power supply (nominal)	115-127V/60Hz 1~				
Refrigerant	R513A				
Application	LBP+MBP+HBP				
Voltage range	95-140V				
Starting torque	HST				
Approvals	UL				
	CB				

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:	static



Operation pressure range



Components (incl. and pre. assembl.)		
a5	current relay (T0377/L6 S1)	117U7081
c	start capacitor (240μF)	117U5002
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 **KLE4.0GFMX** **115-127V/60Hz** Conf. 4 Sales code: **106G6413**

Optimization + standard conditions

R513A, 120V/60Hz, CSIR, static, UL, CB

Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)							Power consumption				
				Return gas temp.							Current consumption				
				Liquid temp.							Ref. mass flow				
				Cooling capacity							COP	EER			
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m			
[°C]	[°F]									[W]	[A]	[kg/h]			
-23	54	32	32	129,5	442	111,4	1,21	4,12	1,04	107,3	1,77	2,79	ASHRAE LBP		
-10	130	90	90												
-7	54	35	46	271,5	927	233,7	1,79	6,13	1,54	151,3	2,01	6,65	ASHRAE MBP		
20	130	95	115												
7,2	54	35	46	495,2	1691	426,1	2,58	8,82	2,22	191,6	2,27	12,30	ASHRAE HBP		
45	130	95	115												
-35	40	20	40	71,2	243	61,3	0,85	2,91	0,73	83,6	1,66	1,76	EN12900 LBP		
-31	104	68	104												
-10	45	20	45	244,0	833	210,0	1,81	6,18	1,56	134,7	1,91	6,47	EN12900 MBP		
14	113	68	113												
5	50	20	50	418,2	1428	359,9	2,35	8,03	2,02	177,8	2,18	11,99	EN12900 HBP		
41	122	68	122												

Performance tables

R513A, 120V/60Hz, CSIR, static, UL, CB

	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]	[W]	[A]
[°C / °F]	-32	-26	77,5	265	66,7	0,88	2,99	0,75	88,4	1,68	1,88					
cond. pressure	-23	-10	130,0	444	111,9	1,24	4,22	1,06	105,2	1,76	3,17					
pc= 45/113	-15	5	200,9	686	172,9	1,63	5,57	1,40	123,2	1,85	4,92					
return gas temp.	-9	15	261,8	894	225,3	1,92	6,57	1,66	136,0	1,92	6,44					
RGT= 32/90	0	32	395,3	1350	340,2	2,50	8,52	2,15	158,4	2,05	9,81					
liquid temp	7,2	45	526,9	1799	453,5	3,00	10,25	2,58	175,6	2,16	13,18					
Tliq= 45/113	10	50	585,1	1998	503,5	3,21	10,98	2,77	182,0	2,21	14,69					
[°C / °F]	-32	-26	58,8	201	50,6	0,67	2,28	0,57	88,3	1,68	1,61					
cond. pressure	-23	-10	101,7	347	87,5	0,95	3,23	0,81	107,6	1,77	2,79					
pc= 55/131	-15	5	160,2	547	137,8	1,24	4,25	1,07	128,8	1,88	4,41					
return gas temp	-9	15	211,1	721	181,7	1,47	5,01	1,26	144,1	1,97	5,84					
RGT= 32/90	0	32	324,7	1109	279,5	1,90	6,47	1,63	171,3	2,13	9,07					
liquid temp	7,2	45	438,5	1497	377,3	2,27	7,77	1,96	192,7	2,28	12,36					
Tliq= 55/131	10	50	489,2	1671	421,0	2,43	8,31	2,09	201,0	2,34	13,85					

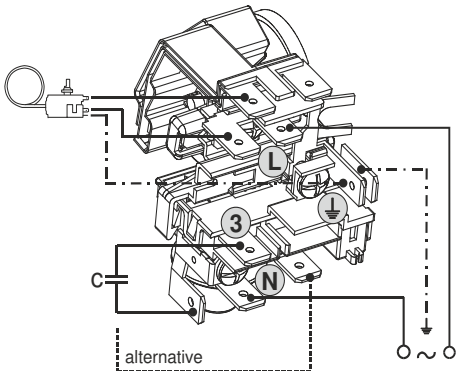
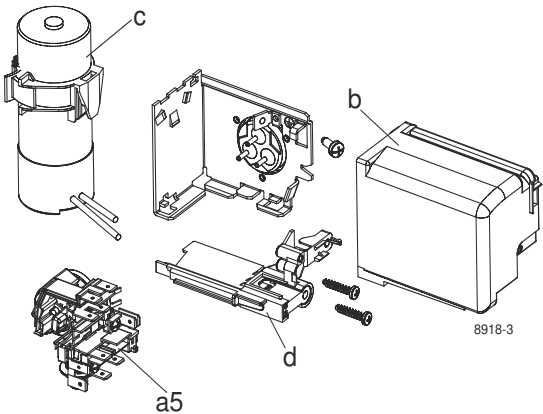
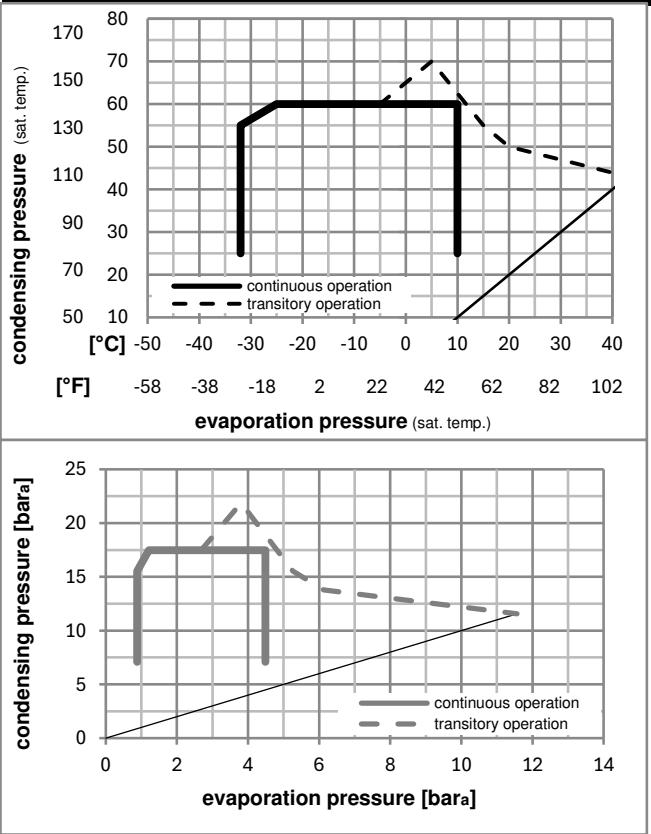
Model					
Designation	KLE4.0GFMX	100-127V/60Hz	Conf. 5	Sales code:	106G6413

Configuration		Electrical accessories / wiring diagram			
Motorconfiguration	CSIR	CSIR			
Power supply (nominal)	100-127V/60Hz 1~				
Refrigerant	R513A				
Application	LBP+MBP				
Voltage range	90-140V				
Starting torque	HST				
Approvals	UL				
	CB				

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:	static

Operation pressure range



Components (incl. and pre. assembl.)

a5	current relay (T0377/L6 S1)	117U7081
c	start capacitor (240μF)	117U5002
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 **KLE4.0GFMX** **100-127V/60Hz** Conf. 5 Sales code: **106G6413**

Optimization + standard conditions

R513A, 100V/60Hz, CSIR, static, UL, CB

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption									
Return gas temp.					Current consumption						Ref. mass flow									
Liquid temp.					Cooling capacity						COP		EER		P1		I		ṁ	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]								
[°C]	-23	54	32	32	149,0	509	128,3	1,49	5,09	1,28	100,1	1,59	3,21	ASHRAE LBP						
[°F]	-10	130	90	90																
[°C]	-7	54	35	46	303,2	1036	261,0	2,09	7,14	1,80	145,0	1,93	7,43	ASHRAE MBP						
[°F]	20	130	95	115																
[°C]	7,2	54	35	46	535,2	1828	460,6	3,07	10,48	2,64	174,5	2,18	13,30	ASHRAE HBP						
[°F]	45	130	95	115																
[°C]	-35	40	20	40	74,9	256	64,5	1,01	3,46	0,87	74,0	1,45	1,85	EN12900 LBP						
[°F]	-31	104	68	104																
[°C]	-10	45	20	45	267,7	914	230,4	2,11	7,22	1,82	126,7	1,78	7,09	EN12900 MBP						
[°F]	14	113	68	113																
[°C]	5	50	20	50	452,1	1544	389,1	2,80	9,56	2,41	161,4	2,07	12,96	EN12900 HBP						
[°F]	41	122	68	122																

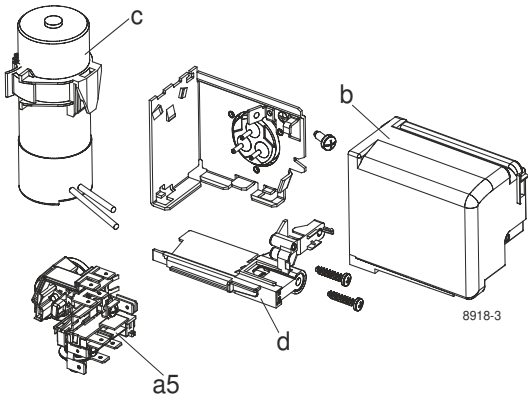
Performance tables

R513A, 100V/60Hz, CSIR, static, UL, CB

	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]	-32	-26	85,3	291	73,4	1,07		3,66	0,92		79,5		1,47		2,07	
cond. pressure	-23	-10	145,3	496	125,1	1,49		5,10	1,28		97,4		1,57		3,54	
pc= 45/113	-15	5	222,2	759	191,2	1,92		6,55	1,65		115,9		1,70		5,44	
return gas temp.	-9	15	286,9	980	246,9	2,24		7,67	1,93		127,8		1,79		7,06	
RGT= 32/90	0	32	427,5	1460	367,9	2,94		10,04	2,53		145,4		1,93		10,60	
liquid temp	7,2	45	565,5	1931	486,7	3,65		12,46	3,14		155,0		2,02		14,15	
Tliq= 45/113	10	50	626,7	2140	539,3	3,98		13,60	3,43		157,4		2,04		15,73	
[°C / °F]	-32	-26	62,7	214	54,0	0,81		2,76	0,69		77,7		1,45		1,71	
cond. pressure	-23	-10	116,6	398	100,3	1,16		3,97	1,00		100,2		1,59		3,20	
pc= 55/131	-15	5	182,7	624	157,2	1,48		5,06	1,27		123,3		1,76		5,03	
return gas temp	-9	15	237,6	811	204,4	1,72		5,86	1,48		138,5		1,88		6,57	
RGT= 32/90	0	32	356,5	1217	306,8	2,20		7,53	1,90		161,8		2,07		9,96	
liquid temp	7,2	45	473,9	1618	407,8	2,69		9,20	2,32		175,9		2,20		13,36	
Tliq= 55/131	10	50	526,1	1797	452,8	2,92		9,98	2,51		180,1		2,23		14,89	

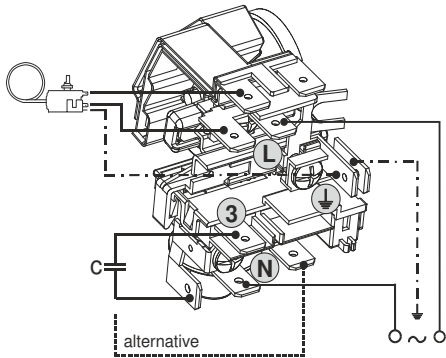
Model					
Designation	KLE4.0GFMX	100V/50Hz	Conf. 6	Sales code:	106G6413

Configuration		Electrical accessories / wiring diagram			
Motorconfiguration	CSIR	CSIR			
Power supply (nominal)	100V/50Hz 1~				
Refrigerant	R513A				
Application	MBP				
Voltage range	90-110V				
Starting torque	HST				
Approvals	UL				
	CB				

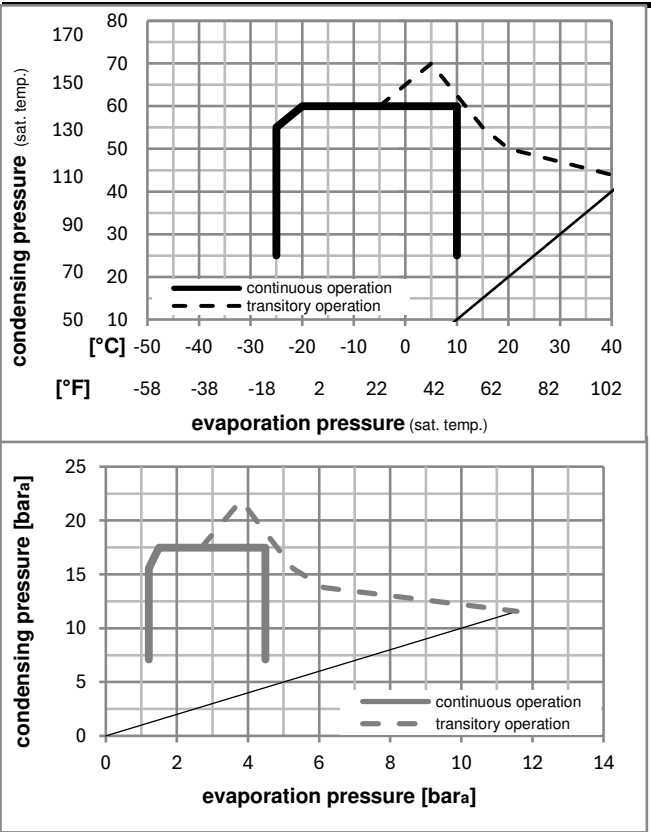


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components (incl. and pre. assembl.)

a5	current relay (T0377/L6 S1)	117U7081
c	start capacitor (240μF)	117U5002
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	KLE4.0GFMX	100V/50Hz	Conf. 6	Sales code:	106G6413
Optimization + standard conditions			R513A, 100V/50Hz, CSIR, static, UL, CB		

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]	P1	I	m	
[°C]	[°F]										[W]	[A]	[kg/h]	
[°C]	-23	54	32	32	124,5	425	107,1	1,36	4,63	1,17	91,8	1,82	2,68	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-7	54	35	46	253,6	866	218,3	2,00	6,82	1,72	127,0	2,01	6,21	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	448,0	1530	385,5	2,96	10,12	2,55	151,2	2,17	11,13	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	62,4	213	53,7	0,81	2,76	0,70	77,2	1,76	1,54	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	223,7	764	192,5	2,00	6,83	1,72	111,9	1,92	5,93	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	378,3	1292	325,6	2,69	9,18	2,31	140,8	2,09	10,85	EN12900 HBP
[°F]	41	122	68	122										

Performance tables							R513A, 100V/50Hz, CSIR, static, UL, CB					
	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]	-23	-10	121,3	414	104,4	1,35	4,63	1,17	89,6	1,81	2,96	
cond. pressure	-23	-10	121,3	414	104,4	1,35	4,63	1,17	89,6	1,81	2,96	
pc= 45/113	-15	5	185,7	634	159,8	1,80	6,14	1,55	103,2	1,87	4,55	
return gas temp.	-9	15	239,8	819	206,4	2,13	7,26	1,83	112,8	1,92	5,90	
RGT= 32/90	0	32	357,5	1221	307,6	2,80	9,56	2,41	127,7	2,01	8,87	
liquid temp	4,4	40	425,7	1454	366,4	3,20	10,93	2,75	133,1	2,04	10,61	
Tliq= 45/113	10	50	524,3	1790	451,2	3,81	13,02	3,28	137,5	2,07	13,16	
[°C / °F]	-23	-10	97,4	332	83,8	1,06	3,61	0,91	92,0	1,82	2,67	
cond. pressure	-23	-10	97,4	332	83,8	1,06	3,61	0,91	92,0	1,82	2,67	
pc= 55/131	-15	5	152,7	521	131,4	1,40	4,77	1,20	109,4	1,91	4,21	
return gas temp	-9	15	198,6	678	171,0	1,63	5,58	1,41	121,6	1,98	5,50	
RGT= 32/90	0	32	298,3	1019	256,7	2,12	7,23	1,82	140,9	2,10	8,33	
liquid temp	4,4	40	356,3	1217	306,6	2,40	8,20	2,07	148,4	2,15	10,01	
Tliq= 55/131	10	50	440,5	1504	379,1	2,83	9,67	2,44	155,5	2,20	12,47	