

## Single Pack KLE8.6GFTX 200-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4779**

Position	Title	Code	Amount
1	Compressor KLE8.6GFTX	106G5903	1
2	KL accessories	103N1060	1
3	Starting capacitor (80 $\mu$ F 220V, 6.3mm)	117U5001	1
4	Starting relay (QLZ-5.5A, overload protector T0377/L6)	117U7071	1
5	Bolt joint for one compressor   M6   $\varnothing$ 16mm	118-1917	1

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## Model

Designation	<b>KLE8.6GFTX</b>	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	<b>106G5903</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R134a, R513A</b>
Oil viscosity	19,2cSt	Displacement	8,6cm <sup>3</sup> / 0,52cu.in
Oil quantity	240cm <sup>3</sup> / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	250g / 8,8oz		
Free gas volume comp.	1495cm <sup>3</sup> / 50,6fl.oz		
Weight	9,7kg / 21,4lbs		
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 KLE8.6GFTX

	<b>Conf. 1</b>	<b>Conf. 2</b>
Motorconfiguration	CSIR	CSIR
Power supply (nominal)	220-240V/50Hz	208-230V/60Hz
Number of phases	1	1
Voltage range	187-254V	198-253V
Approvals	VDE, (UL,CB) in progress	VDE, (UL,CB) in progress
Starting torque	HST	HST
Note	- / -	

## Applications with KLE8.6GFTX

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

## Electrical data - Configurations with KLE8.6GFTX

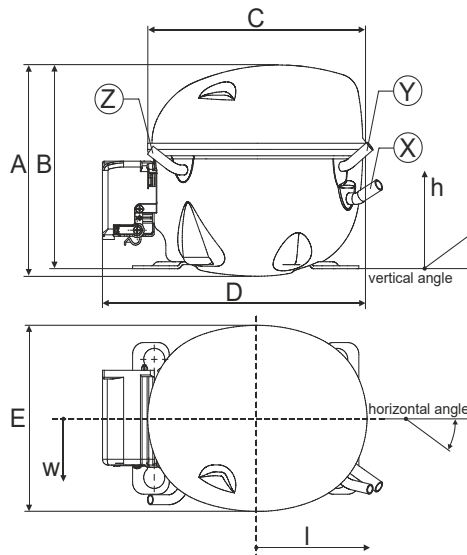
	<b>Conf. 1</b>	<b>Conf. 2</b>
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	80μF	80μF
LRA (locked rotor amps / 4s/ U(N))	13,5A	13,5A
RLA (rated load amps / 1s/ U(N))	2,1A	2,1A
Cut in current (U(N))	12,3A	12,3A

## Model

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## Compressor dimensions

<b>Housing</b>	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 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[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

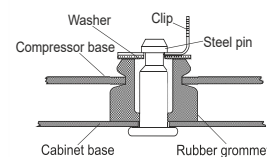
## Compressor fixation



### 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

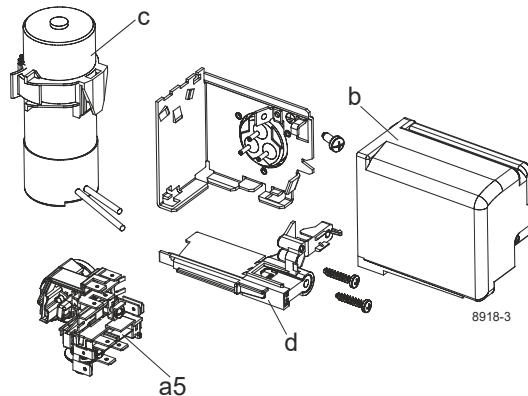
Designation	<b>KLE8.6GFTX</b>	<b>220-240V/50Hz</b>	<b>Conf. 1</b>	Sales code:	<b>106G5903</b>
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## Configuration

Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R134a
Application	LBP+MBP+HBP
Voltage range	187-254V
Starting torque	HST
Approvals	VDE (UL,CB) in progress

## Electrical accessories / wiring diagram

**CSIR**

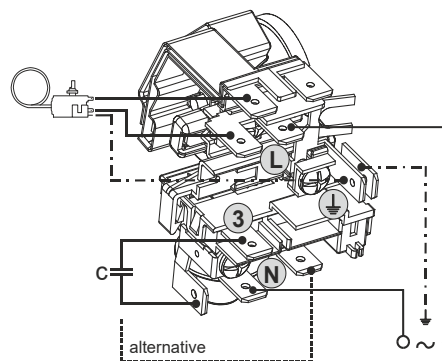


## Ambient/ machine room temperatures minimum /maximum

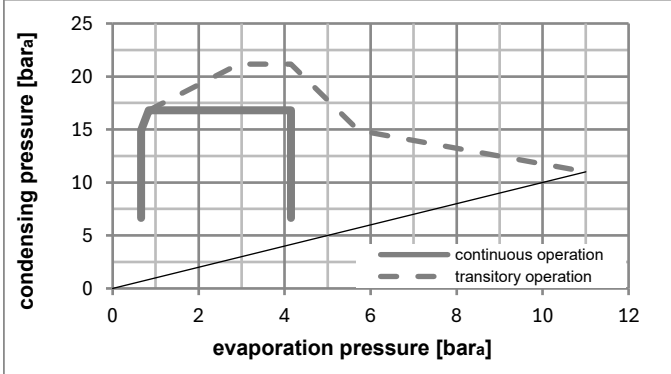
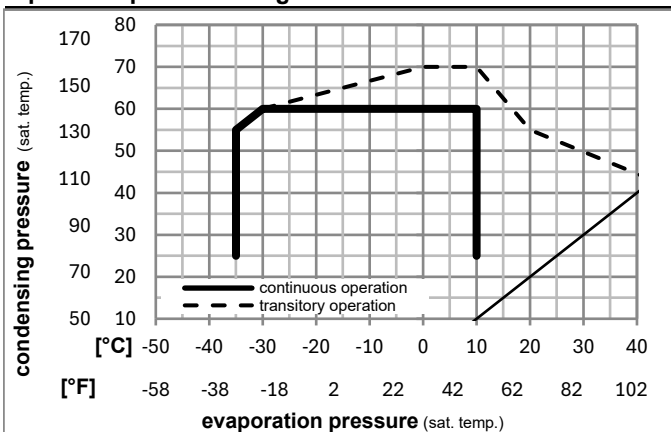
Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s



## Operation pressure range



## Components

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

## Model

Designation **KLE8.6GFTX** **220-240V/50Hz** Conf. 1 Sales code: **106G5903**

## Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, (UL,CB) in progress

	Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER	P1	Power consumption		ASHRAE	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]				I	m		
[°C]	-23	54	32	32	248,1	847	213,5	1,33	4,53	1,14	186,9	1,41	4,82	
[°F]	-10	130	90	90										ASHRAE LBP
[°C]	-7	54	35	46	517,3	1767	445,2	1,78	6,08	1,53	290,4	1,82	11,29	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	7,2	54	35	46	901,6	3079	775,9	2,31	7,90	1,99	389,6	2,27	20,00	ASHRAE HBP
[°F]	45	130	95	115										
[°C]	-35	40	20	40	131,2	448	112,9	1,04	3,56	0,90	125,9	1,23	2,88	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-10	45	20	45	450,8	1540	388,0	1,81	6,17	1,56	249,4	1,65	10,55	EN12900 MBP
[°F]	14	113	68	113										
[°C]	5	50	20	50	773,5	2642	665,7	2,19	7,47	1,88	353,9	2,10	19,49	EN12900 HBP
[°F]	41	122	68	122										

## Performance tables

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, (UL,CB) in progress

	pe		Cooling capacity			COP	EER	P1	I	m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]						
[°C / °F]	-35	-31	123,6	422	106,4	0,98	3,35	0,84	126,0	1,23	2,67
cond. pressure	-25	-13	216,6	740	186,4	1,25	4,28	1,08	172,9	1,37	4,69
pc= 45/113	-15	5	368,2	1257	316,9	1,65	5,63	1,42	223,3	1,55	8,03
return gas temp.	-10	14	467,7	1597	402,5	1,87	6,40	1,61	249,4	1,65	10,24
RGT= 32/90	0	32	717,8	2452	617,8	2,37	8,09	2,04	303,1	1,87	15,87
liquid temp	5	41	869,9	2971	748,6	2,63	8,99	2,27	330,4	1,99	19,37
Tliq= 45/113	10	50	1040,8	3555	895,8	2,91	9,94	2,50	357,6	2,12	23,36
[°C / °F]	-35	-31	96,4	329	83,0	0,76	2,58	0,65	127,6	1,24	2,30
cond. pressure	-25	-13	181,7	621	156,4	1,02	3,48	0,88	178,1	1,38	4,35
pc= 55/131	-15	5	315,1	1076	271,2	1,33	4,54	1,14	237,0	1,60	7,59
return gas temp	-10	14	401,6	1372	345,7	1,49	5,09	1,28	269,2	1,73	9,71
RGT= 32/90	0	32	618,0	2110	531,8	1,83	6,23	1,57	338,6	2,03	15,12
liquid temp	5	41	749,2	2559	644,7	2,00	6,81	1,72	375,4	2,20	18,46
Tliq= 55/131	10	50	896,7	3062	771,7	2,17	7,41	1,87	413,6	2,38	22,29

## Model

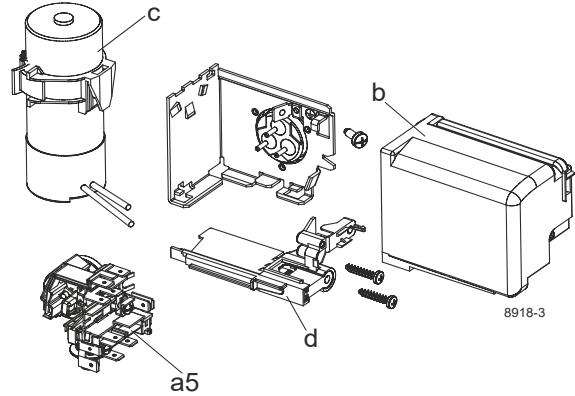
Designation	<b>KLE8.6GFTX</b>	<b>208-230V/60Hz</b>	<b>Conf. 2</b>	Sales code:	<b>106G5903</b>
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## Configuration

Motorconfiguration	CSIR
Power supply (nominal)	208-230V/60Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	198-253V
Starting torque	HST
Approvals	VDE
	(UL,CB) in progress

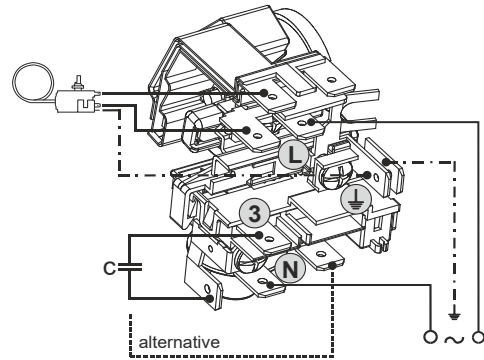
## Electrical accessories / wiring diagram

CSIR

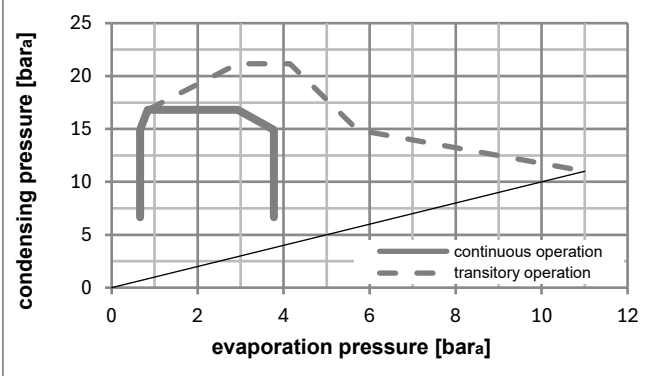
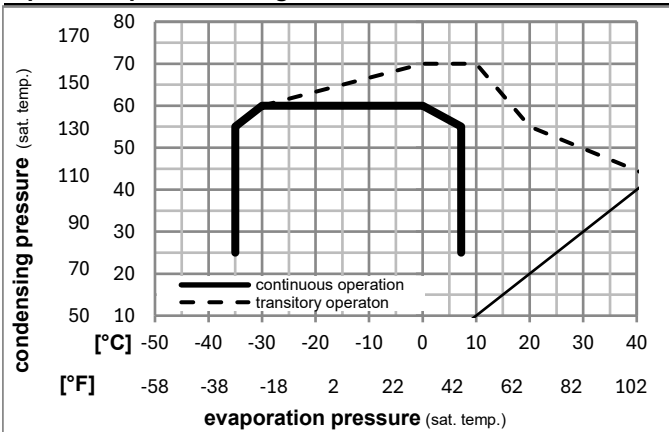


## Ambient/ machine room temperatures minimum /maximum

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

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c	start capacitor (80µF, 6.3mm)	117U5001
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## Alternative components

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

### Model

Designation **KLE8.6GFTX** **208-230V/60Hz** Conf. 2 Sales code: **106G5903**

### Optimization + standard conditions

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, (UL,CB) in progress

	Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER			Power consumption			ASHRAE
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]		[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]	-23	54	32	32	299,2	1022	257,5	1,35	4,60	1,16	222,1	1,41	5,81		
[°F]	-10	130	90	90										ASHRAE LBP	
[°C]	-7	54	35	46	617,4	2109	531,4	1,78	6,07	1,53	347,4	1,86	13,47	ASHRAE MBP	
[°F]	20	130	95	115											
[°C]	7,2	54	35	46	1076,9	3678	926,8	2,31	7,90	1,99	465,4	2,35	23,89	ASHRAE HBP	
[°F]	45	130	95	115											
[°C]	-35	40	20	40	156,3	534	134,6	1,12	3,84	0,97	139,1	1,17	3,43	EN12900 LBP	
[°F]	-31	104	68	104											
[°C]	-10	45	20	45	537,4	1835	462,5	1,80	6,16	1,55	298,1	1,67	12,58	EN12900 MBP	
[°F]	14	113	68	113											
[°C]	5	50	20	50	923,1	3153	794,5	2,19	7,46	1,88	422,4	2,17	23,26	EN12900 HBP	
[°F]	41	122	68	122											

### Performance tables

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, (UL,CB) in progress

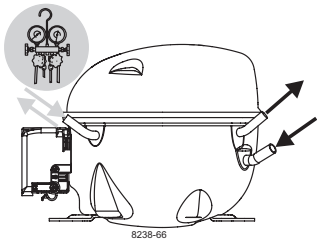
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]		[W/W]	[Btu/Wh]			
[°C / °F]	-35	-31	147,7	504	127,1	1,06	3,61	0,91	139,8	1,17	3,19
cond. pressure	-25	-13	259,6	886	223,4	1,27	4,34	1,09	204,1	1,35	5,62
pc= 45/113	-15	5	439,4	1501	378,2	1,65	5,62	1,42	266,8	1,56	9,58
return gas temp.	-10	14	557,6	1904	479,8	1,87	6,39	1,61	298,1	1,67	12,20
RGT= 32/90	-5	23	695,9	2377	598,9	2,11	7,21	1,82	329,7	1,79	15,30
liquid temp	0	32	855,5	2922	736,2	2,37	8,08	2,04	361,6	1,92	18,92
Tliq= 45/113	7,2	45	1124,8	3841	968,0	2,75	9,40	2,37	408,7	2,11	25,12
[°C / °F]	-35	-31	117,8	402	101,4	0,83	2,84	0,72	141,6	1,18	2,80
cond. pressure	-25	-13	219,7	750	189,0	1,04	3,56	0,90	210,7	1,37	5,25
pc= 55/131	-15	5	377,4	1289	324,8	1,33	4,54	1,14	283,8	1,62	9,09
return gas temp	-10	14	479,9	1639	413,0	1,49	5,08	1,28	322,4	1,77	11,60
RGT= 32/90	-5	23	599,5	2047	515,9	1,65	5,65	1,42	362,5	1,92	14,57
liquid temp	0	32	737,3	2518	634,5	1,82	6,23	1,57	404,4	2,09	18,03
Tliq= 55/131	7,2	45	970,0	3313	834,8	2,07	7,07	1,78	468,3	2,36	23,99



# KL Compressors



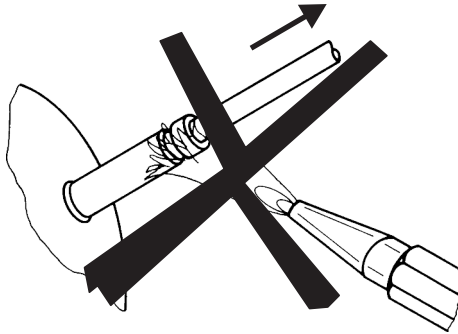




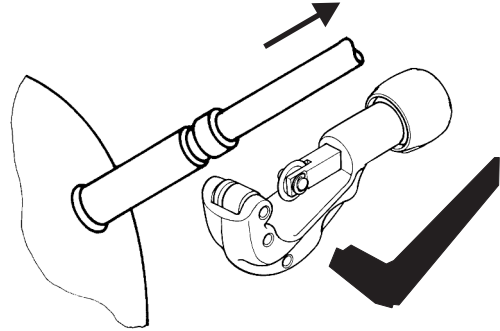
# KL Compressors



## Service/Repair – R290



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