

Single Pack KLF6.6CNT 200-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4778**

Position	Title	Code	Amount
1	Compressor KLF6.6CNT	106H2702	1
2	KL accessories	103N1060	1
3	Starting capacitor (80 μ F 260V, 6.3mm)	117U5003	1
4	Starting relay (QLZ-4.4A, overload protector T1218/L6)	117U7077	1
5	Bolt joint for one compressor M6 \varnothing 16mm	118-1917	1

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Model

Designation	KLF6.6CNT	200-240V/50Hz 1~	208-230V/60Hz 1~	Sales code:	106H2702
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	19,2cSt	Displacement	6,6cm ³ / 0,4cu.in
Oil quantity	170cm ³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1583cm ³ / 53,5fl.oz		
Weight	9,5kg / 20,9lbs		
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		



General - Configurations with KLF6.6CNT

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motorconfiguration	CSIR	RSCR	CSIR	RSCR
Power supply (nominal)	200-240V/50Hz	200-240V/50Hz	208-230V/60Hz	208-230V/60Hz
Number of phases	1	1	1	1
Voltage range	187-254V	187-254V	198-253V	198-253V
Approvals	UL, KC	UL, KC	UL, KC	UL, KC
Starting torque	HST	LST	HST	LST
Note	- / -			

Applications with KLF6.6CNT

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Refrigerant	R290	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+MBP	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 KLF6.6CNT

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Starting device type	relay	PTC	relay	PTC
Run capacitor	-/-	5μF	-/-	5μF
Start capacitor	80μF	-/-	80μF	-/-
LRA (locked rotor amps / 4s/ U(N))	13,5A	13,5A	12,9A	12,9A
RLA (rated load amps / 1s/ U(N))	1,8A	1,8A	1,7A	1,7A
Cut in current (U(N))	12,3A	18,1A		

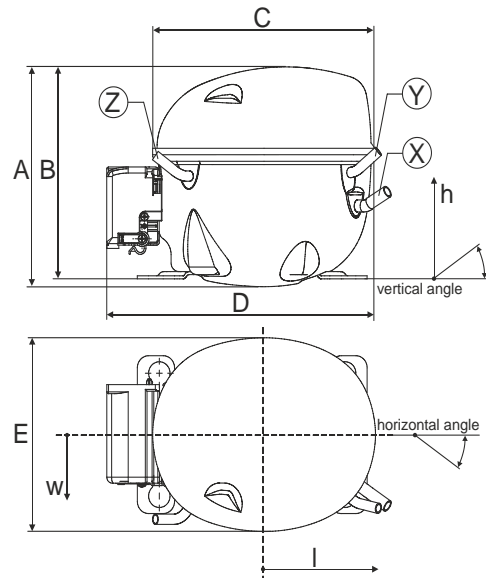
Model

Designation **KLF6.6CNT** 200-240V/50Hz 1~ 208-230V/60Hz 1~ Sales code: **106H2702**

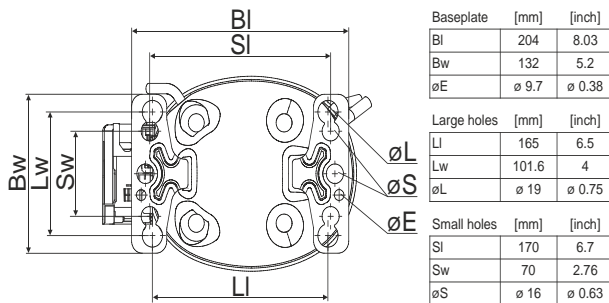
Compressor dimensions

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

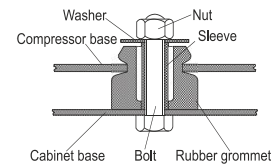
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59	117/107/66	-88/101/71
[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



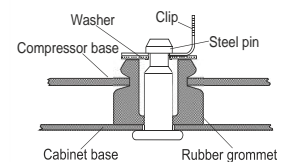
Compressor fixation



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

Model

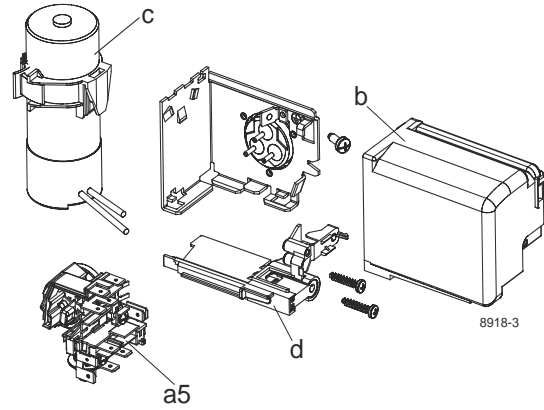
Designation	KLF6.6CNT	200-240V/50Hz	Conf. 1	Sales code:	106H2702
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Configuration

Motorconfiguration	CSIR
Power supply (nominal)	200-240V/50Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	187-254V
Starting torque	HST
Approvals	UL KC

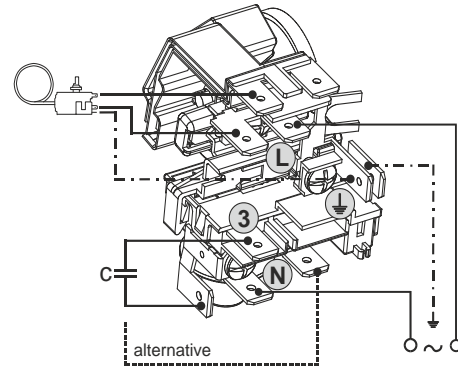
Electrical accessories / wiring diagram

CSIR

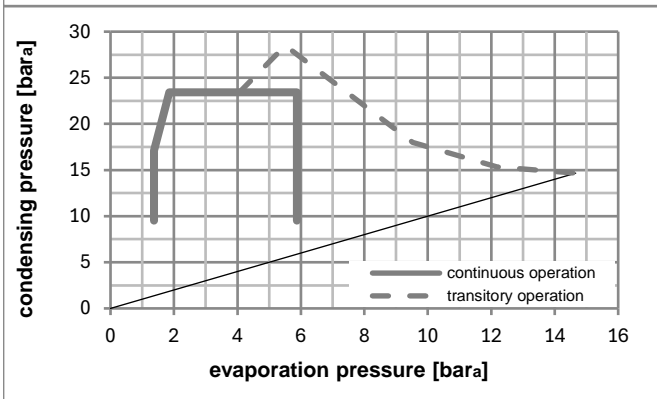
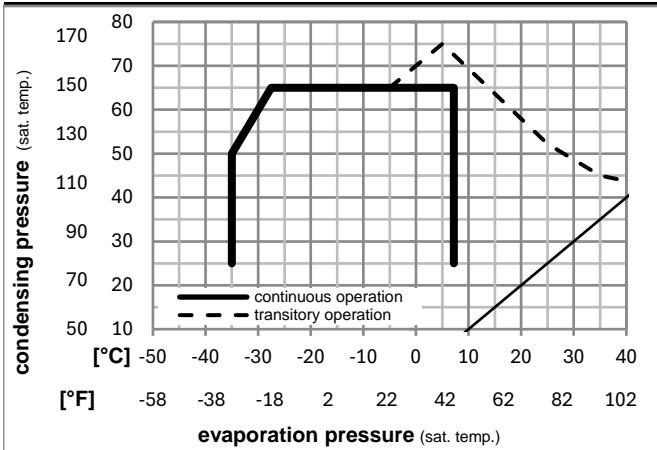


Ambient/ machine room temperatures minimum /maximum

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)	117U5003
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 **KLF6.6CNT** **200-240V/50Hz** Conf. 1 Sales code: **106H2702**

Optimization + standard conditions

R290, 220V/50Hz, CSIR, fan 3m/s, UL, KC

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.		Liquid temp.		Cooling capacity			COP	EER	Power 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	333,5	1139	287,0	1,47	5,01	1,26	227,4	1,60	3,38	ASHRAE LBP							
[°F]	-10	130	90	90																	
[°C]	-25	55	32	55	249,5	852	214,7	1,14	3,88	0,98	219,4	1,58	3,11	cecomaf LBP							
[°F]	-13	131	90	131																	
[°C]	-35	40	20	40	178,5	610	153,6	1,20	4,08	1,03	149,4	1,42	2,04	EN12900 LBP							
[°F]	-31	104	68	104																	
[°C]	-7	54	35	46	585,1	1998	503,6	1,93	6,59	1,66	303,1	1,85	6,67	ASHRAE MBP							
[°F]	20	130	95	115																	
[°C]	-10	55	32	55	467,8	1598	402,6	1,60	5,47	1,38	291,9	1,81	5,92	cecomaf MBP							
[°F]	14	131	90	131																	
[°C]	-10	45	20	45	516,0	1762	444,1	2,00	6,84	1,72	257,6	1,69	6,34	EN12900 MBP							
[°F]	14	113	68	113																	

Performance tables

R290, 220V/50Hz, CSIR, fan 3m/s, UL, KC

	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	295,1	1008	254,0	1,45	4,95	1,25	203,8	1,53	3,33
cond. pressure	-25	-13	295,1	1008	254,0	1,45	4,95	1,25	203,8	1,53	3,33
pc= 45/113	-15	5	446,0	1523	383,8	1,84	6,30	1,59	241,8	1,64	5,07
return gas temp.	-10	14	537,2	1835	462,3	2,09	7,12	1,79	257,6	1,69	6,15
RGT= 32/90	-5	23	640,7	2188	551,4	2,37	8,08	2,04	270,7	1,73	7,38
liquid temp	0	32	757,8	2588	652,1	2,70	9,21	2,32	281,0	1,77	8,79
Tliq= 45/113	7,2	45	952,7	3254	819,9	3,28	11,21	2,82	290,3	1,80	11,19
[°C / °F]	-25	-13	249,5	852	214,7	1,14	3,88	0,98	219,4	1,58	3,11
cond. pressure	-25	-13	249,5	852	214,7	1,14	3,88	0,98	219,4	1,58	3,11
pc= 55/131	-15	5	385,8	1318	332,0	1,43	4,89	1,23	269,5	1,73	4,85
return gas temp	-10	14	467,8	1598	402,6	1,60	5,47	1,38	291,9	1,81	5,92
RGT= 32/90	-5	23	560,8	1915	482,7	1,80	6,14	1,55	312,0	1,88	7,14
liquid temp	0	32	666,1	2275	573,2	2,02	6,90	1,74	329,7	1,94	8,56
Tliq= 55/131	7,2	45	841,7	2875	724,4	2,40	8,21	2,07	350,3	2,02	10,97

Model

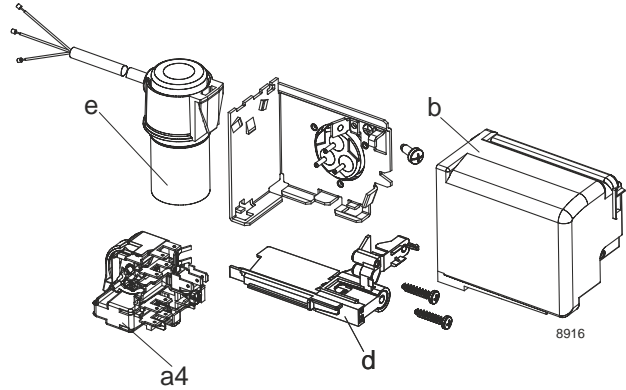
Designation **KLF6.6CNT** **200-240V/50Hz** Conf. 2 Sales code: **106H2702**

Configuration

Motorconfiguration RSCR
 Power supply (nominal) 200-240V/50Hz 1~
 Refrigerant R290
 Application LBP+MBP
 Voltage range 187-254V
 Starting torque LST
 Approvals UL
 KC

Electrical accessories / wiring diagram

RSCR

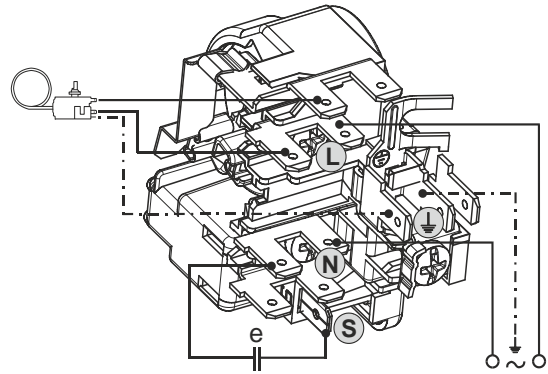


Ambient/ machine room temperatures minimum /maximum

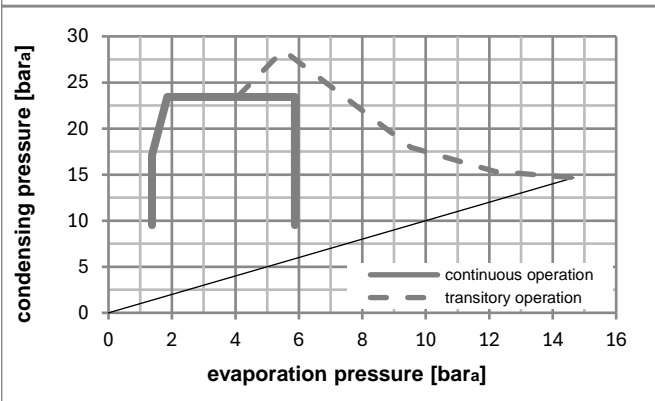
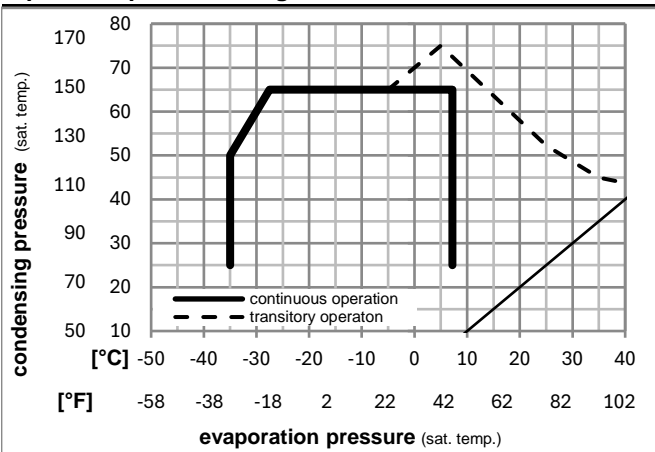
Ambient temperature range: 10 - 43°C / 50 - 110°F

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

Compressor cooling: fan 3m/s



Operation pressure range



Components

a4	DAS1 (PTC,6.3mm, T0377/L6 - S1)	103N0250
e	run capacitor (5μF, 6.3mm)	117-7191
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative components

a4	ZAS1 (PTC,4.8mm, T0377/L6 - S1)	103N0252
e	run capacitor (5μF, 4.8mm)	117-7190

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

Model

 Designation **KLF6.6CNT** **200-240V/50Hz** Conf. 2 Sales code: **106H2702**
Optimization + standard conditions

R290, 220V/50Hz, RSCR, fan 3m/s, UL, KC

	Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP	EER	Power consumption			Ref. mass flow	ASHRAE LBP
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m										
[°C]	[°C]	[°C]	[°C]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]											
[°C]	-23	54	32	32	336,8	1150	289,9	1,53	5,22	1,31	220,6	1,43	3,41	ASHRAE LBP									
[°F]	-10	130	90	90																			
[°C]	-25	55	32	55	252,0	861	216,9	1,18	4,04	1,02	212,8	1,41	3,14	cecomaf LBP									
[°F]	-13	131	90	131																			
[°C]	-35	40	20	40	180,3	616	155,2	1,24	4,25	1,07	144,9	1,25	2,06	EN12900 LBP									
[°F]	-31	104	68	104																			
[°C]	-7	54	35	46	591,0	2018	508,6	2,01	6,86	1,73	294,0	1,68	6,74	ASHRAE MBP									
[°F]	20	130	95	115																			
[°C]	-10	55	32	55	472,5	1614	406,6	1,67	5,70	1,44	283,1	1,64	5,98	cecomaf MBP									
[°F]	14	131	90	131																			
[°C]	-10	45	20	45	521,2	1780	448,5	2,09	7,12	1,80	249,9	1,52	6,40	EN12900 MBP									
[°F]	14	113	68	113																			

Performance tables

R290, 220V/50Hz, RSCR, fan 3m/s, UL, KC

	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	179,7	614	154,6	1,17	3,98	1,00	154,0	1,27	2,01
cond. pressure	-25	-13	298,0	1018	256,5	1,51	5,15	1,30	197,6	1,36	3,36
pc= 45/113	-15	5	450,4	1538	387,6	1,92	6,56	1,65	234,6	1,47	5,12
return gas temp.	-10	14	542,6	1853	467,0	2,17	7,42	1,87	249,9	1,52	6,21
RGT= 32/90	-5	23	647,1	2210	556,9	2,46	8,42	2,12	262,6	1,56	7,45
liquid temp	0	32	765,4	2614	658,7	2,81	9,59	2,42	272,6	1,60	8,88
Tliq= 45/113	7,2	45	962,2	3286	828,1	3,42	11,67	2,94	281,6	1,63	11,30
[°C / °F]	-35	-31	143,1	489	123,1	0,90	3,07	0,77	159,1	1,26	1,77
cond. pressure	-25	-13	252,0	861	216,9	1,18	4,04	1,02	212,8	1,41	3,14
pc= 55/131	-15	5	389,7	1331	335,3	1,49	5,09	1,28	261,4	1,56	4,90
return gas temp	-10	14	472,5	1614	406,6	1,67	5,70	1,44	283,1	1,64	5,98
RGT= 32/90	-5	23	566,4	1934	487,5	1,87	6,39	1,61	302,7	1,71	7,22
liquid temp	0	32	672,7	2298	579,0	2,10	7,18	1,81	319,8	1,77	8,64
Tliq= 55/131	7,2	45	850,1	2903	731,6	2,50	8,54	2,15	339,8	1,85	11,08

Model

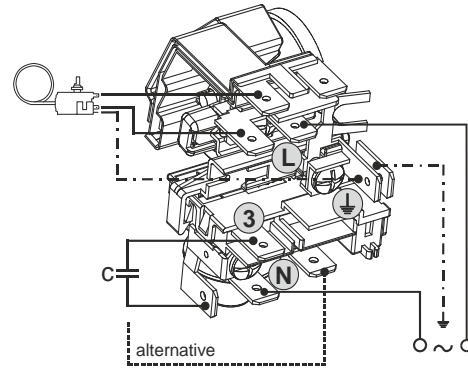
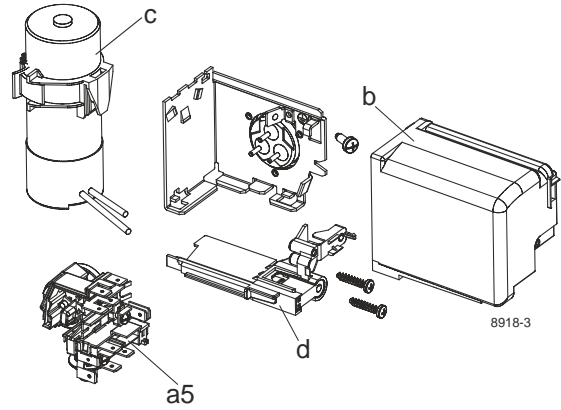
Designation **KLF6.6CNT** **208-230V/60Hz** Conf. 3 Sales code: **106H2702**

Configuration

Motorconfiguration CSIR
 Power supply (nominal) 208-230V/60Hz 1~
 Refrigerant R290
 Application LBP+MBP
 Voltage range 198-253V
 Starting torque HST
 Approvals UL
 KC

Electrical accessories / wiring diagram

CSIR



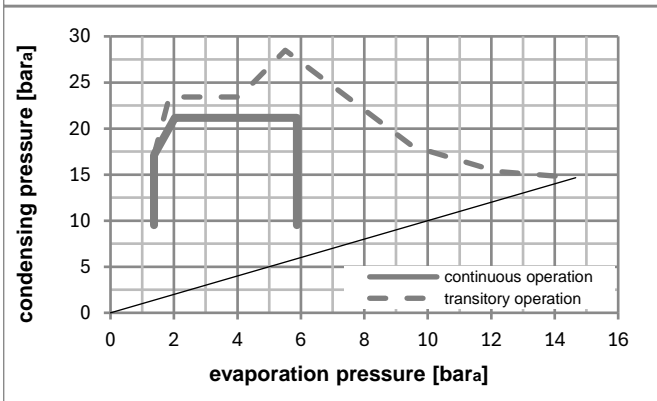
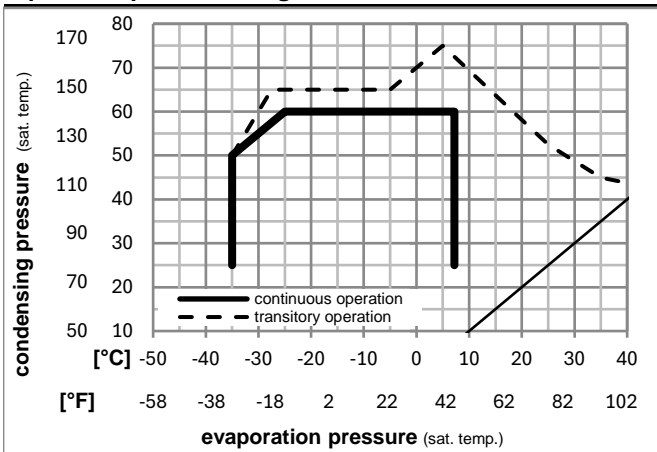
Ambient/ machine room temperatures minimum /maximum

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)	117U5003
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 **KLF6.6CNT** **208-230V/60Hz** Conf. 3 Sales code: **106H2702**

Optimization + standard conditions

R290, 220V/60Hz, CSIR, fan 3m/s, UL, KC

	Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			COP	EER	Power consumption			ASHRAE LBP	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]			P1	I	Ref. mass flow		
	[°C]	[°F]	[°C]	[°C]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
	-23	54	32	32	407,6	1392	350,7	1,56	5,32	1,34	261,8	1,71	4,13	ASHRAE LBP
	-10	130	90	90										
	-25	55	32	55	306,2	1046	263,5	1,22	4,16	1,05	251,6	1,68	3,81	cecomaf LBP
	-13	131	90	131										
	-35	40	20	40	216,8	740	186,6	1,21	4,15	1,05	178,5	1,49	2,48	EN12900 LBP
	-31	104	68	104										
	-7	54	35	46	702,4	2399	604,5	1,99	6,79	1,71	353,1	2,01	8,01	ASHRAE MBP
	20	130	95	115										
	-10	55	32	55	561,8	1919	483,5	1,66	5,67	1,43	338,3	1,96	7,11	cecomaf MBP
	14	131	90	131										
	-10	45	20	45	615,1	2101	529,4	2,01	6,86	1,73	306,3	1,85	7,55	EN12900 MBP
	14	113	68	113										

Performance tables

R290, 220V/60Hz, CSIR, fan 3m/s, UL, KC

	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	210,0	717	180,7	1,13	3,87	0,98	185,3	1,51	2,35
cond. pressure	-25	-13	352,5	1204	303,4	1,46	4,98	1,26	241,6	1,65	3,98
pc= 45/113	-15	5	531,5	1815	457,4	1,85	6,32	1,59	287,3	1,78	6,05
return gas temp.	-10	14	640,4	2187	551,1	2,09	7,14	1,80	306,3	1,85	7,33
RGT= 32/90	-5	23	765,2	2613	658,5	2,37	8,09	2,04	322,9	1,90	8,81
liquid temp	0	32	908,2	3102	781,6	2,69	9,20	2,32	337,1	1,95	10,53
Tliq= 45/113	7,2	45	1150,8	3930	990,4	3,26	11,12	2,80	353,5	2,01	13,52
[°C / °F]	-35	-31	176,9	604	152,2	0,96	3,29	0,83	183,6	1,49	2,19
cond. pressure	-25	-13	306,2	1046	263,5	1,22	4,16	1,05	251,6	1,68	3,81
pc= 55/131	-15	5	465,3	1589	400,5	1,49	5,10	1,29	311,3	1,87	5,85
return gas temp	-10	14	561,8	1919	483,5	1,66	5,67	1,43	338,3	1,96	7,11
RGT= 32/90	-5	23	672,6	2297	578,8	1,85	6,32	1,59	363,4	2,05	8,57
liquid temp	0	32	799,9	2732	688,4	2,07	7,06	1,78	386,7	2,13	10,27
Tliq= 55/131	7,2	45	1017,0	3473	875,2	2,44	8,32	2,10	417,3	2,25	13,25

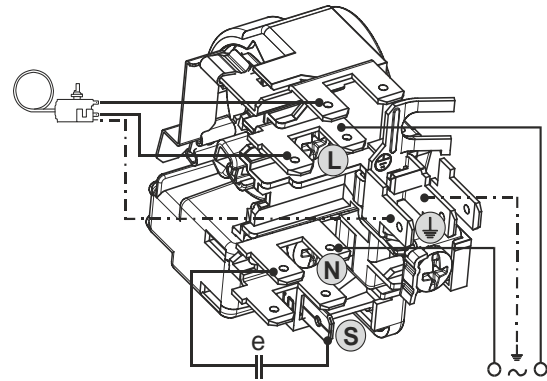
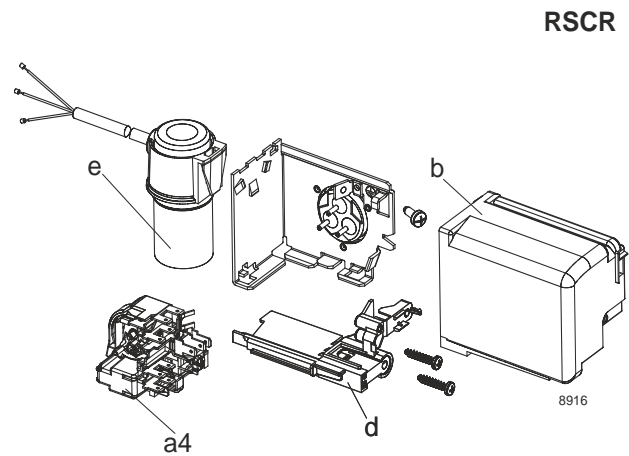
Model

Designation	KLF6.6CNT	208-230V/60Hz	Conf. 4	Sales code:	106H2702
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Configuration

Motorconfiguration	RSCR
Power supply (nominal)	208-230V/60Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	198-253V
Starting torque	LST
Approvals	UL KC

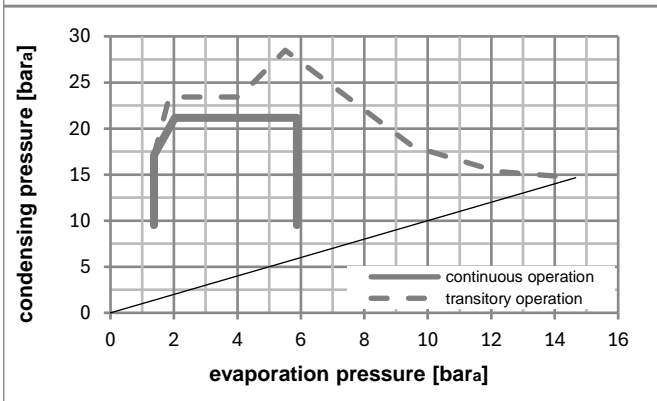
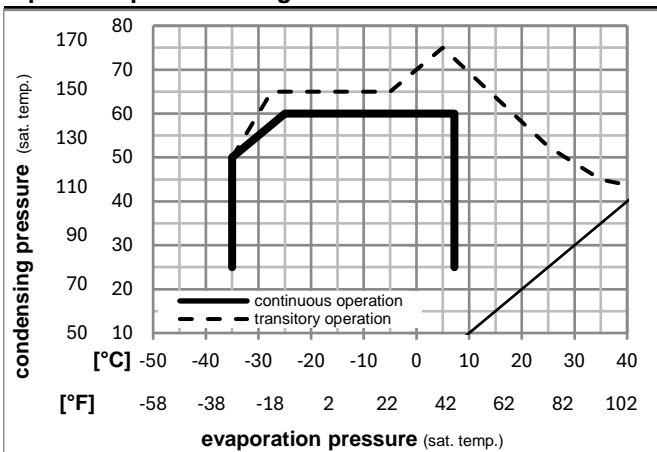
Electrical accessories / wiring diagram



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

a4	DAS1 (PTC,6.3mm, T0377/L6 - S1)	103N0250
e	run capacitor (5µF, 6.3mm)	117-7191
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative components

a4	ZAS1 (PTC,4.8mm, T0377/L6 - S1)	103N0252
e	run capacitor (5µF, 4.8mm)	117-7190

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

Model

Designation **KLF6.6CNT** **208-230V/60Hz** Conf. 4 Sales code: **106H2702**

Optimization + standard conditions

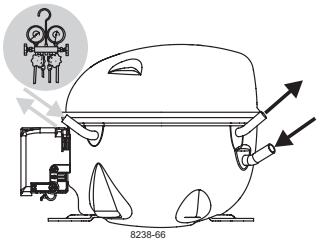
R290, 220V/60Hz, RSCR, fan 3m/s, UL, KC

	Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			COP	EER	Power consumption			ASHRAE LBP	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]			P1	I	Ref. mass flow		
	[°C]	[°F]	[°C]	[°C]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
	-23	54	32	32	411,6	1406	354,3	1,63	5,58	1,41	251,8	1,56	4,17	ASHRAE LBP
	-10	130	90	90										
	-25	55	32	55	309,2	1056	266,1	1,28	4,36	1,10	242,0	1,53	3,85	cecomaf LBP
	-13	131	90	131										
	-35	40	20	40	219,0	748	188,4	1,27	4,35	1,10	171,7	1,34	2,50	EN12900 LBP
	-31	104	68	104										
	-7	54	35	46	709,4	2423	610,5	2,09	7,13	1,80	339,7	1,86	8,09	ASHRAE MBP
	20	130	95	115										
	-10	55	32	55	567,4	1938	488,3	1,74	5,96	1,50	325,4	1,81	7,18	cecomaf MBP
	14	131	90	131										
	-10	45	20	45	621,3	2122	534,7	2,11	7,20	1,81	294,7	1,70	7,63	EN12900 MBP
	14	113	68	113										

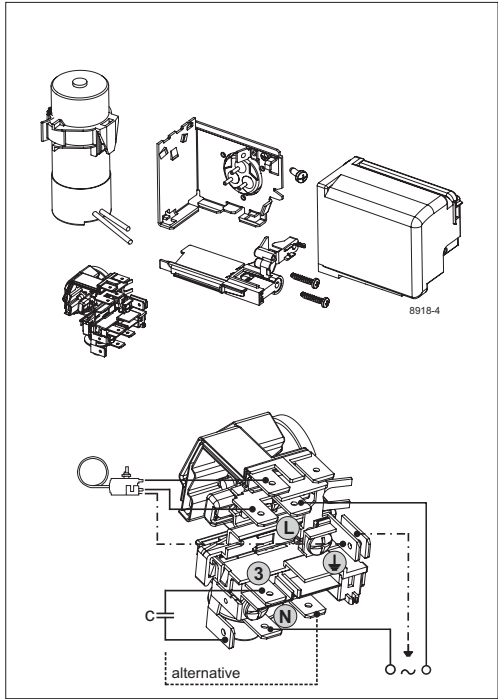
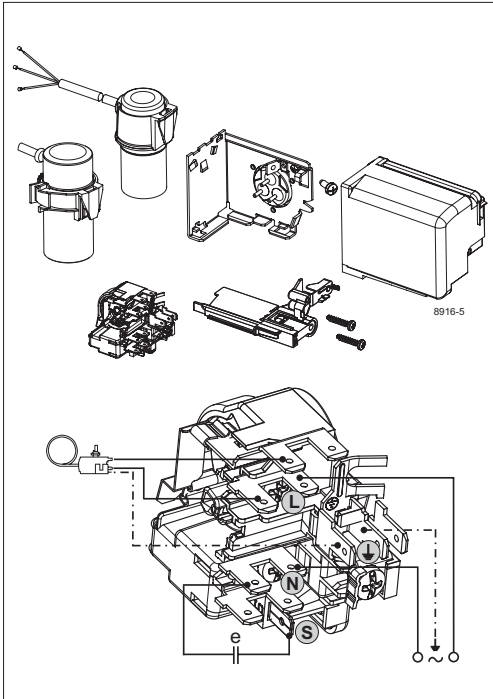
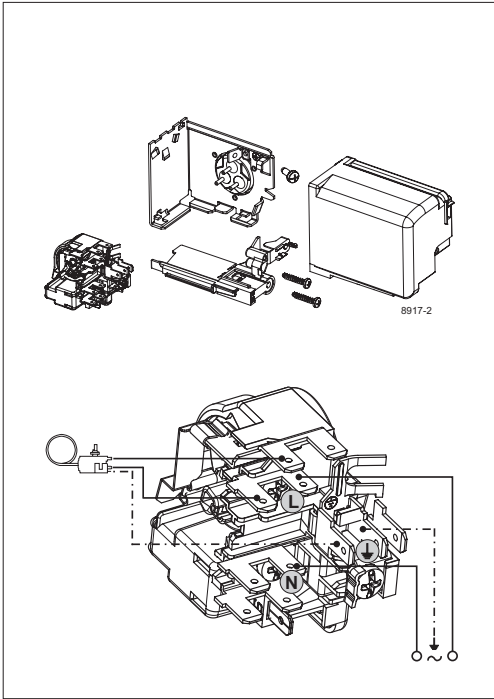
Performance tables

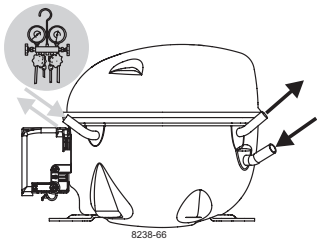
R290, 220V/60Hz, RSCR, fan 3m/s, UL, KC

	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	212,1	724	182,5	1,19	4,06	1,02	178,3	1,36	2,38
cond. pressure	-25	-13	356,0	1216	306,4	1,53	5,23	1,32	232,4	1,50	4,02
pc= 45/113	-15	5	536,8	1833	462,0	1,94	6,63	1,67	276,4	1,63	6,11
return gas temp.	-10	14	646,8	2209	556,6	2,20	7,50	1,89	294,7	1,70	7,40
RGT= 32/90	-5	23	772,8	2639	665,1	2,49	8,50	2,14	310,6	1,75	8,90
liquid temp	0	32	917,3	3133	789,4	2,83	9,66	2,43	324,3	1,80	10,64
Tliq= 45/113	7,2	45	1162,3	3970	1000,3	3,42	11,67	2,94	340,1	1,86	13,66
[°C / °F]	-35	-31	178,7	610	153,8	1,01	3,45	0,87	176,7	1,34	2,21
cond. pressure	-25	-13	309,2	1056	266,1	1,28	4,36	1,10	242,0	1,53	3,85
pc= 55/131	-15	5	470,0	1605	404,5	1,57	5,36	1,35	299,5	1,72	5,91
return gas temp	-10	14	567,4	1938	488,3	1,74	5,96	1,50	325,4	1,81	7,18
RGT= 32/90	-5	23	679,3	2320	584,6	1,94	6,64	1,67	349,5	1,90	8,65
liquid temp	0	32	807,9	2759	695,3	2,17	7,42	1,87	372,0	1,98	10,38
Tliq= 55/131	7,2	45	1027,2	3508	884,0	2,56	8,74	2,20	401,5	2,10	13,38



KL Compressors

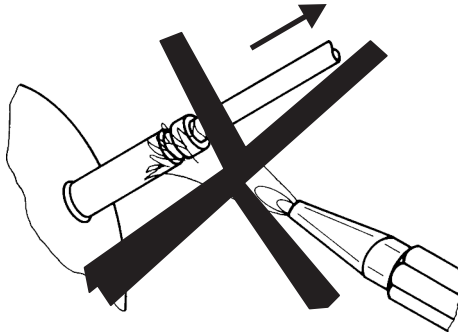




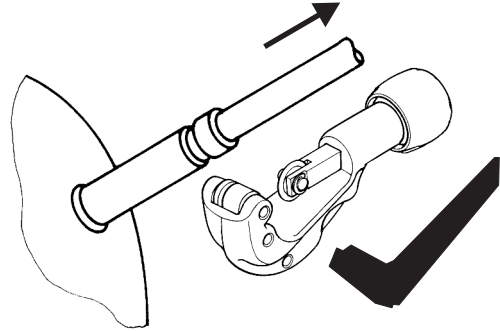
KL Compressors



Service/Repair – R290



8545



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