

Model			
Designation	KLF6.6CND	220-240V/50Hz 1~	Sales code: 106H2700

Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	9,7cST	Displacement	6,6cm³ / 0,4cu.in
Oil quantity	170cm³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1583cm³ / 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 KLF6.6CND

	Conf. 1	Conf. 2
Motorconfiguration	CSIR	RSCR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1
Voltage range	198-254V	198-254V
Approvals	VDE, CCC	VDE, CCC
Starting torque	HST	LST
Note	- / -	

Applications with KLF6.6CND

	Conf. 1	Conf. 2
Refrigerant	R290	R290
Application	LBP+MBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

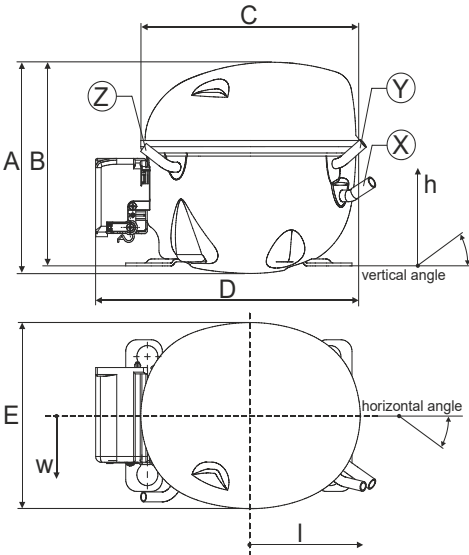
Electrical data - Configurations with KLF6.6CND

	Conf. 1	Conf. 2
Starting device type	relay	PTC
Run capacitor	-/-	5µF
Start capacitor	80µF	-/-
LRA (locked rotor amps / 4s)	12,3A	11A
RLA (rated load amps / 1s)	2,1A	2,1A
Cut in current	12,3A	18,1A

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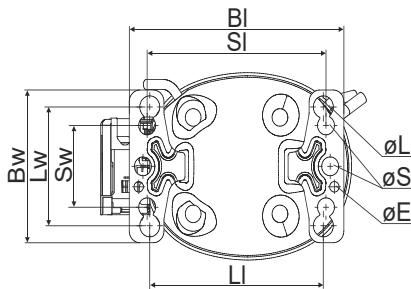
Compressor dimensions

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



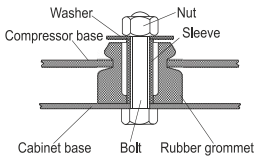
Connectors		Suction X	Discharge Y	Process Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	120/72/57	112/106/81	-97/94/72
	[in]	4,7/2,8/2,2	4,4/4,2/3,2	-3,8/3,7/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

Compressor fixation

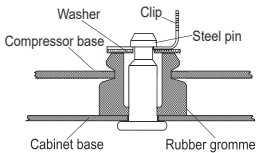


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes		
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes		
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

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

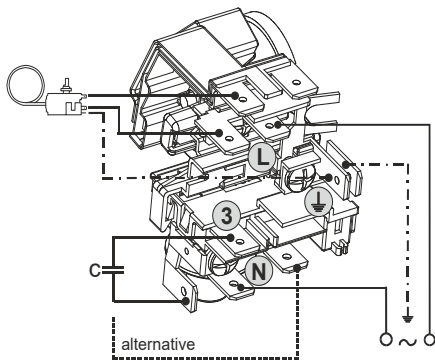
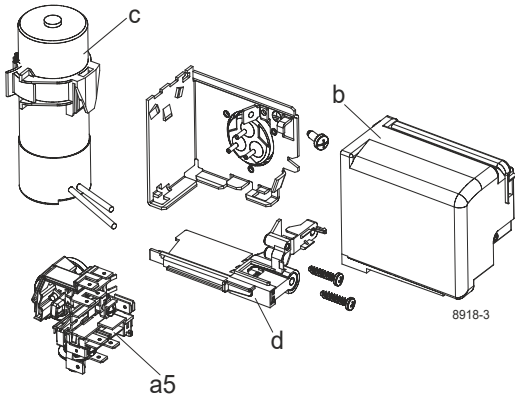
Provision for PE Grounding is located at the PE Stamp on the compressor

Model				
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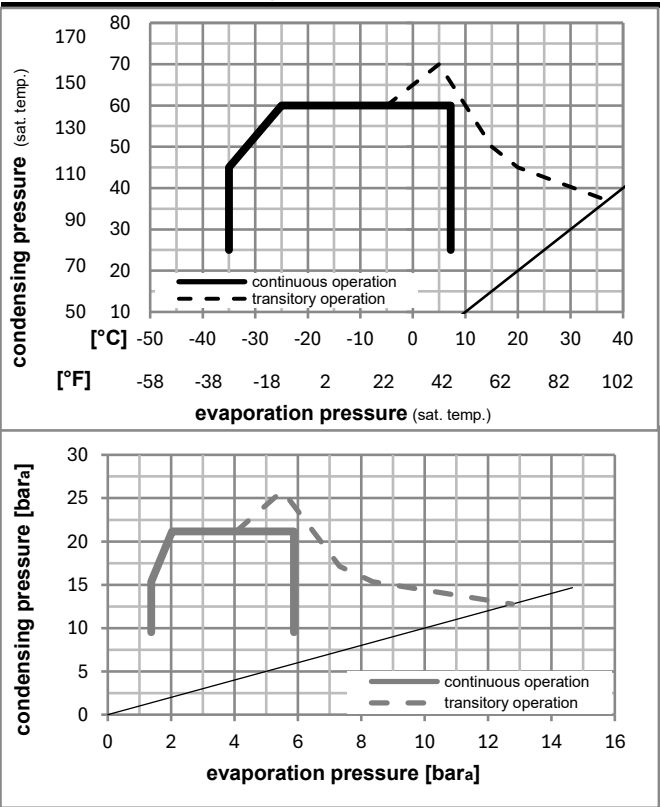
Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	CSIR	CSIR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R290			
Application	LBP+MBP			
Voltage range	198-254V			
Starting torque	HST			
Approvals	VDE			
	CCC			

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) in bag	103N1060

Alternative components

b, d	cover + clamp + screws(5VA-compl.)	103N0600
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Model											
Designation	KLF6.6CND	220-240V/50Hz	Conf. 1	Sales code:	106H2700						

Optimization + standard conditions

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC

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				m			
pe		pc		RGT		Tliq		[W]		[Btu/h]		[kcal/h]		[W/W]		[Btu/Wh]		[kcal/Wh]		[W]		[A]		[kg/h]						
[°C]	-23	54	32	32																										
[°F]	-10	130	90	90	336,8	1150	289,9	1,51	5,15	1,30	223,4	1,59	3,41	ASHRAE LBP																
[°C]	-25	55	32	55																										
[°F]	-13	131	90	131	251,5	859	216,5	1,17	3,98	1,00	215,7	1,57	3,13	cecomaf LBP																
[°C]	-35	40	20	40																										
[°F]	-31	104	68	104	188,2	643	161,9	1,20	4,11	1,04	156,3	1,42	2,15	EN12900 LBP																
[°C]	-7	54	35	46																										
[°F]	20	130	95	115	595,8	2035	512,8	2,01	6,88	1,73	296,0	1,82	6,80	ASHRAE MBP																
[°C]	-10	55	32	55																										
[°F]	14	131	90	131	475,1	1622	408,9	1,67	5,70	1,44	284,6	1,78	6,01	cecomaf MBP																
[°C]	-10	45	20	45																										
[°F]	14	113	68	113	525,2	1794	452,0	2,04	6,98	1,76	257,0	1,69	6,45	EN12900 MBP																

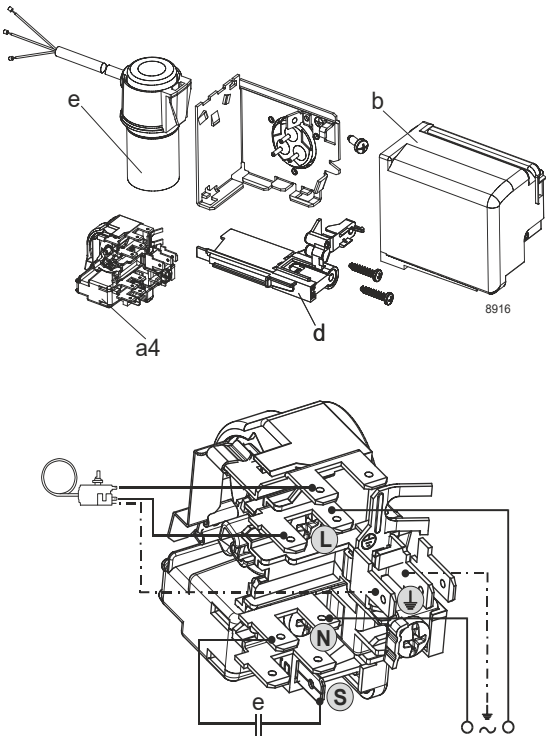
Performance tables

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC

	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	178,1	608	153,2	1,12	3,82	0,96	159,2	1,43	2,00
cond. pressure	-25	-13	294,9	1007	253,8	1,46	4,97	1,25	202,7	1,53	3,33
pc= 45/113	-15	5	450,6	1539	387,8	1,87	6,40	1,61	240,5	1,64	5,13
return gas temp.	-10	14	546,8	1867	470,6	2,13	7,27	1,83	257,0	1,69	6,26
RGT= 32/90	-5	23	657,2	2245	565,6	2,42	8,26	2,08	271,8	1,74	7,57
liquid temp	0	32	783,4	2675	674,2	2,75	9,40	2,37	284,7	1,78	9,09
Tliq= 45/113	7,2	45	995,8	3401	857,0	3,32	11,34	2,86	299,9	1,84	11,70
[°C / °F]	-35	-31	139,7	477	120,3	0,87	2,96	0,74	161,5	1,44	1,73
cond. pressure	-25	-13	251,5	859	216,5	1,17	3,98	1,00	215,7	1,57	3,13
pc= 55/131	-15	5	391,1	1336	336,6	1,48	5,07	1,28	263,4	1,71	4,92
return gas temp	-10	14	475,1	1622	408,9	1,67	5,70	1,44	284,6	1,78	6,01
RGT= 32/90	-5	23	570,5	1948	491,0	1,88	6,41	1,62	303,8	1,85	7,27
liquid temp	0	32	679,0	2319	584,3	2,12	7,23	1,82	320,9	1,91	8,72
Tliq= 55/131	7,2	45	861,0	2940	741,0	2,52	8,60	2,17	341,8	1,99	11,22

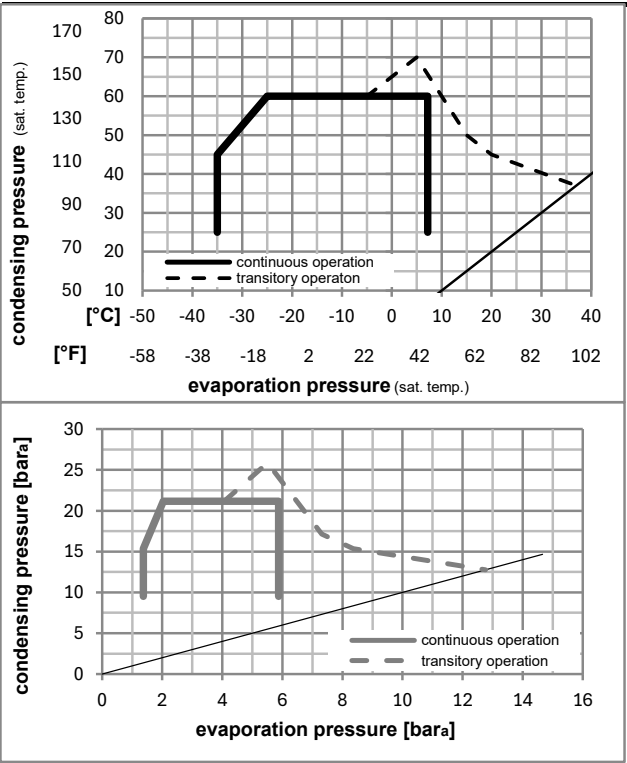
Model				
Designation	KLF6.6CND	220-240V/50Hz	Conf. 2	Sales code: 106H2700

Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	RSCR	RSCR	
Power supply (nominal)	220-240V/50Hz 1~		
Refrigerant	R290		
Application	LBP+MBP		
Voltage range	198-254V		
Starting torque	LST		
Approvals	VDE		
	CCC		



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) in bag	103N1060
Alternative components		
a4	ZAS1 (PTC,4.8mm, T0377/L6 - S1)	103N0252
e	run capacitor (5μF, 4.8mm)	117-7190
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Model					
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Optimization + standard conditions

R290, 220V/50Hz, RSCR, fan 3m/s, VDE, CCC

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]	-23	54	32	32	337,5	1153	290,5	1,58	5,40	1,36	213,6	1,25	3,42	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	252,1	861	216,9	1,22	4,17	1,05	206,3	1,23	3,14	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	188,4	643	162,1	1,25	4,28	1,08	150,3	1,05	2,15	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	597,8	2041	514,4	2,12	7,24	1,83	281,8	1,51	6,82	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	476,5	1627	410,1	1,76	6,00	1,51	271,1	1,47	6,03	cecomaf MBP
[°F]	14	131	90	131										
[°C]	-10	45	20	45	526,6	1799	453,2	2,15	7,34	1,85	245,2	1,37	6,47	EN12900 MBP
[°F]	14	113	68	113										

Performance tables

R290, 220V/50Hz, RSCR, fan 3m/s, VDE, CCC

	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	178,3	609	153,4	1,17	3,98	1,00		152,9		1,06	2,00
cond. pressure	-25	-13	295,5	1009	254,3	1,52	5,20	1,31		194,1		1,18	3,33
pc= 45/113	-15	5	451,7	1543	388,7	1,97	6,72	1,69		229,7		1,31	5,14
return gas temp.	-10	14	548,3	1872	471,8	2,24	7,64	1,92		245,2		1,37	6,27
RGT= 32/90	-5	23	659,1	2251	567,2	2,54	8,69	2,19		259,1		1,42	7,59
liquid temp	0	32	785,8	2684	676,3	2,90	9,89	2,49		271,3		1,47	9,11
Tliq= 45/113	7,2	45	999,1	3412	859,8	3,50	11,94	3,01		285,7		1,53	11,74
[°C / °F]	-35	-31	139,9	478	120,4	0,90	3,08	0,78		155,0		1,07	1,73
cond. pressure	-25	-13	252,1	861	216,9	1,22	4,17	1,05		206,3		1,23	3,14
pc= 55/131	-15	5	392,2	1339	337,5	1,56	5,33	1,34		251,2		1,39	4,93
return gas temp	-10	14	476,5	1627	410,1	1,76	6,00	1,51		271,1		1,47	6,03
RGT= 32/90	-5	23	572,4	1955	492,6	1,98	6,76	1,70		289,2		1,54	7,29
liquid temp	0	32	681,4	2327	586,4	2,23	7,62	1,92		305,3		1,61	8,75
Tliq= 55/131	7,2	45	864,3	2952	743,8	2,66	9,08	2,29		325,1		1,69	11,26