

Single Pack KLF4.8CNT 200-240V 50Hz / 208-230V 60Hz RSCR

Codice Imballo Singolo: **195B4764**

Posizione	Titolo	Codice	Quantità
1	Compressor KLF4.8CNT	106H2502	1
2	Terminal board 6.3mm	103N0251	1
3	Run capacitor (5µF 240V, 6.3mm)	117-7155	1
4	Capacitor bracket	103N0535	1
5	KL accessories	103N1060	1
6	Bolt joint for one compressor M6 ø16mm	118-1917	1

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Model

Designation	KLF4.8CNT	200-240V/50Hz 1~	208-230V/60Hz 1~	Sales code:	106H2502
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	19,2cSt	Displacement	4,8cm³ / 0,29cu.in
Oil quantity	170cm³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1615cm³ / 54,6fl.oz		
Weight	9,2kg / 20,3lbs		
Motor protection	external		
Winding resistance main	10,7Ω (at 25°C)		
Winding resistance aux	17Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with KLF4.8CNT

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	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, CCC, CB	UL, CCC, CB	UL, CCC, CB, KC	UL, CCC, CB, KC
Starting torque	HST	LST	HST	LST
Note	- / -			

Applications with KLF4.8CNT

	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	-/-	-/-

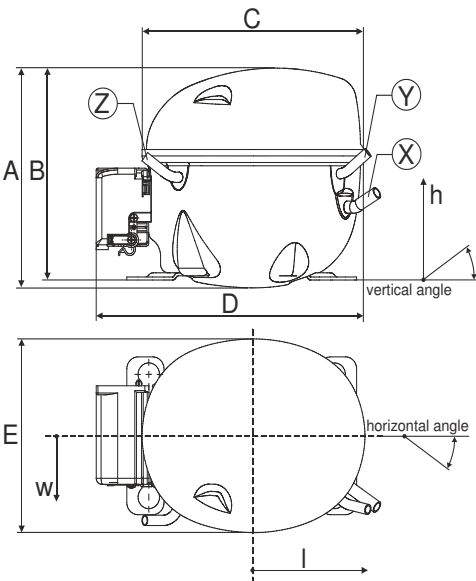
Electrical data - Configurations with KLF4.8CNT

	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))	11,3A	11,3A	11,3A	11,3A
RLA (rated load amps / 1s/ U(N))	1,7A	1,7A	1,7A	1,7A
Cut in current (U(N))	10,7A	14,7A	10,7A	14,7A

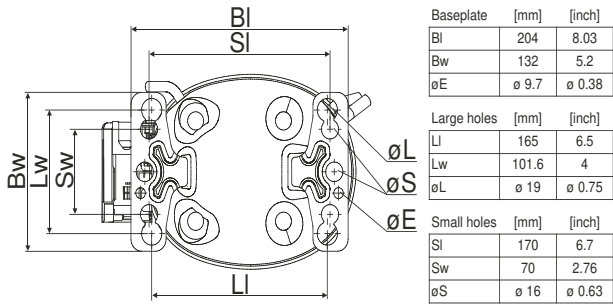
Model				
Designation	KLF4.8CNT	200-240V/50Hz 1~	208-230V/60Hz 1~	Sales code: 106H2502

Compressor dimensions

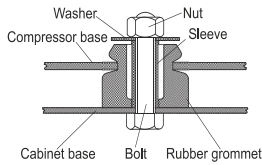
Housing	A Height	182mm / 7,17in		
	B Height	175mm / 6,89in		
	C Length shell	198mm / 7,8in		
	D Length w. cover	238mm / 9,37in		
	E Width	160mm / 6,3in		
Connectors	Suction	Discharge	Process	
	X	Y	Z	
Diameter [mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29	
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	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	



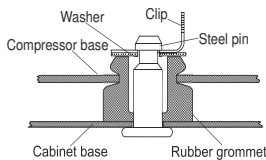
Compressor fixation



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

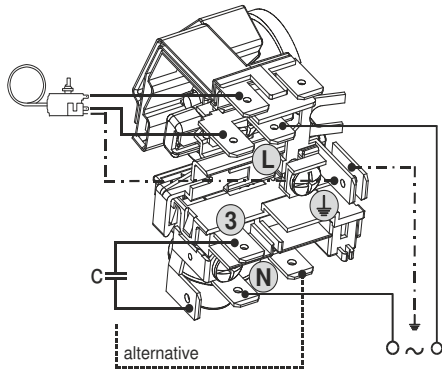
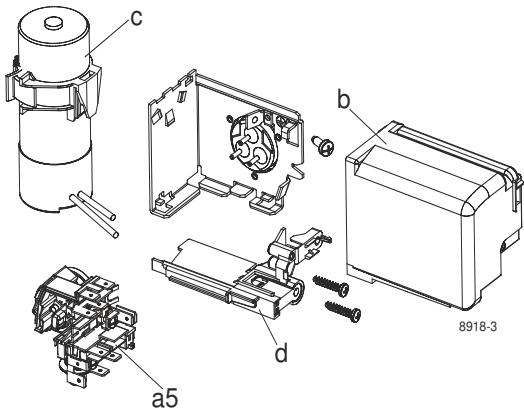
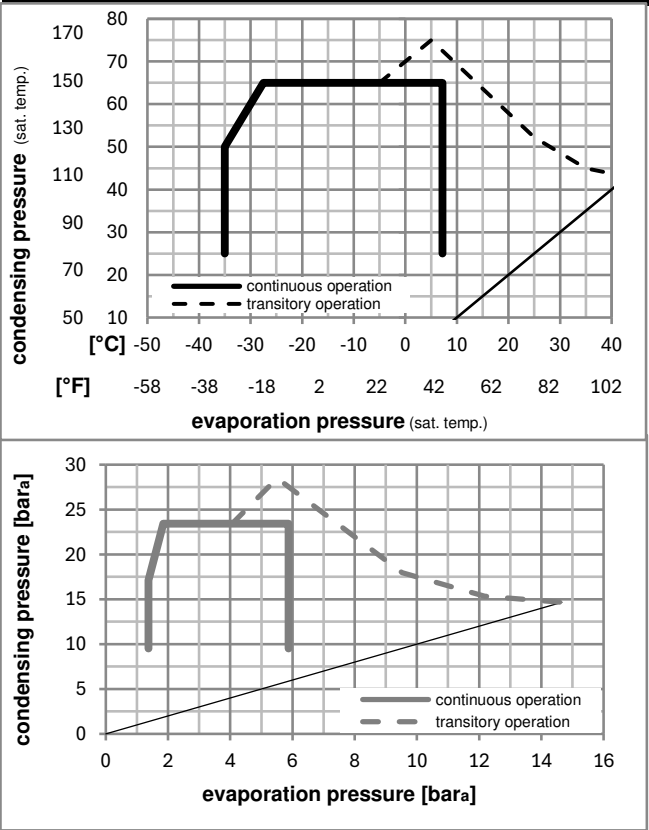
Model					
Designation	KLF4.8CNT	200-240V/50Hz	Conf. 1	Sales code:	106H2502

Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	200-240V/50Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	187-254V				
Starting torque	HST				
Approvals	UL				
	CCC				
	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:	fan 3m/s

Operation pressure range



Components

a5	current relay (T0089/L6-S2)	117U7070
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	KLF4.8CNT	200-240V/50Hz	Conf. 1	Sales code:	106H2502
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Optimization + standard conditions

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

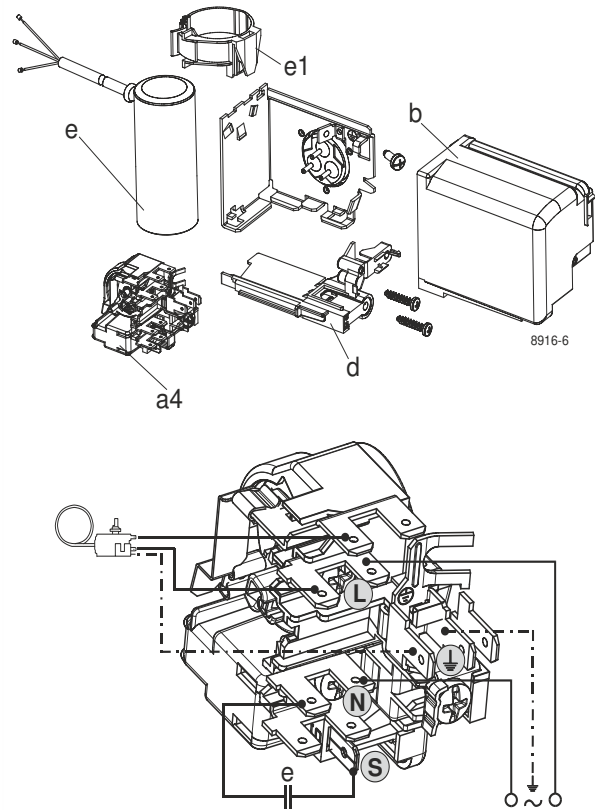
Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)					Power consumption				

Model					
Designation	KLF4.8CNT	200-240V/50Hz	Conf. 2	Sales code:	106H2502

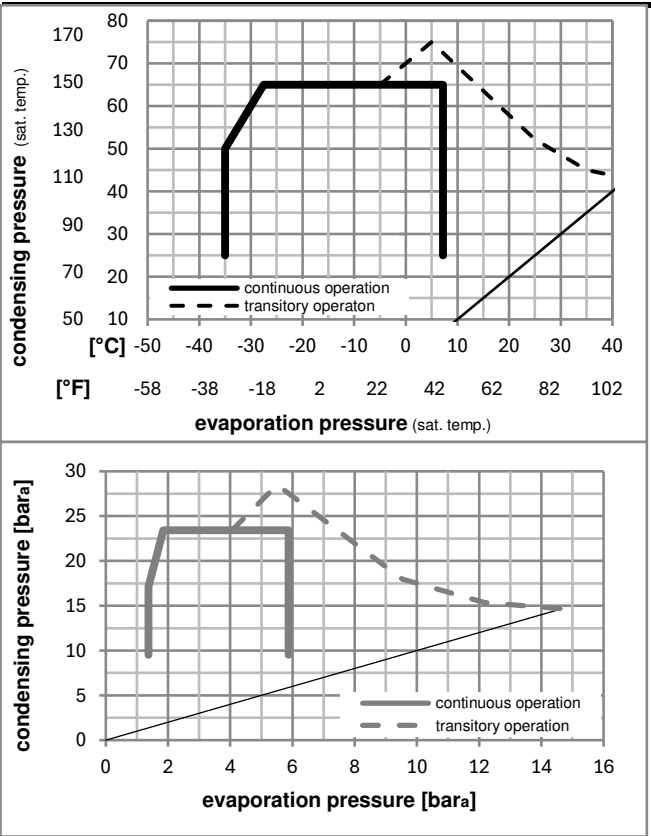
Configuration		Electrical accessories / wiring diagram			
Motor configuration	RSCR	RSCR			
Power supply (nominal)	200-240V/50Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	187-254V				
Starting torque	LST				
Approvals	UL				
	CCC				
	CB				

Ambient/ machine room temperatures minimum /maximum

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Operation pressure range



Components		
a4	DAS2 (PTC,6.3mm, T0089/L6 - S2)	103N0251
e	run capacitor (5μF, 6,3mm)	117-7155
b, d	cover + clamp + screws(5VA-compl.)	103N0600
e1	retaining clamp	103N0535

Alternative components

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

Model

Designation	KLF4.8CNT	200-240V/50Hz	Conf. 2	Sales code:	106H2502
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Optimization + standard conditions

R290, 220V/50Hz, RSCR, fan 3m/s, UL, CCC, 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				232,8				795				200,4				1,54				5,26				1,32			
-10				130				90				90																151,2				1,11				2,36			
-25				55				32				55				173,6				593				149,4				1,18				4,03				1,01			
-13				131				90				131																147,3				1,09				2,16			
-35				40				20				40				131,0				447				112,7				1,10				3,77				0,95			
-31				104				68				104																118,6				1,02				1,50			
-7				54				35				46				420,7				1437				362,1				2,17				7,42				1,87			
20				130				95				115																193,7				1,22				4,80			
-10				55				32				55				334,0				1141				287,4				1,79				6,11				1,54			
14				131				90				131																186,8				1,20				4,22			
-10				45				20				45				381,6				1303				328,4				2,23				7,61				1,92			
14				113				68				113																171,3				1,16				4,69			

Performance tables

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

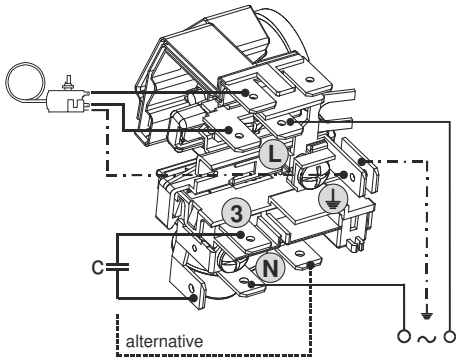
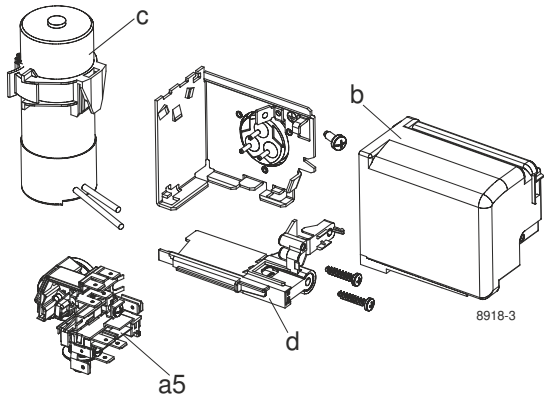
	pe		Cooling capacity			COP		EER			P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]		[Btu/Wh]	[kcal/Wh]		[W]		[A]		[kg/h]	
[°C / °F]	-35	-31	121,0	413	104,1	1,01		3,46	0,87		119,5		1,02		1,36	
cond. pressure	-25	-13	210,7	719	181,3	1,49		5,10	1,28		141,2		1,08		2,38	
pc= 45/113	-15	5	326,0	1113	280,6	2,02		6,89	1,74		161,7		1,14		3,71	
return gas temp.	-10	14	397,2	1357	341,9	2,32		7,92	2,00		171,3		1,16		4,54	
RGT= 32/90	-5	23	479,6	1638	412,7	2,66		9,08	2,29		180,3		1,18		5,52	
liquid temp	0	32	574,5	1962	494,4	3,05		10,40	2,62		188,6		1,20		6,66	
Tliq= 45/113	7,2	45	736,6	2516	634,0	3,70		12,63	3,18		199,1		1,23		8,65	
[°C / °F]	-35	-31	91,4	312	78,7	0,76		2,61	0,66		119,6		1,01		1,13	
cond. pressure	-25	-13	173,6	593	149,4	1,18		4,03	1,01		147,3		1,09		2,16	
pc= 55/131	-15	5	273,5	934	235,4	1,57		5,37	1,35		174,0		1,17		3,44	
return gas temp	-10	14	334,0	1141	287,4	1,79		6,11	1,54		186,8		1,20		4,22	
RGT= 32/90	-5	23	403,6	1378	347,3	2,03		6,93	1,75		199,0		1,23		5,14	
liquid temp	0	32	483,8	1652	416,4	2,30		7,85	1,98		210,5		1,27		6,21	
Tliq= 55/131	7,2	45	621,2	2122	534,6	2,75		9,40	2,37		225,8		1,32		8,09	

Model					
Designation	KLF4.8CNT	208-230V/60Hz	Conf. 3	Sales code:	106H2502

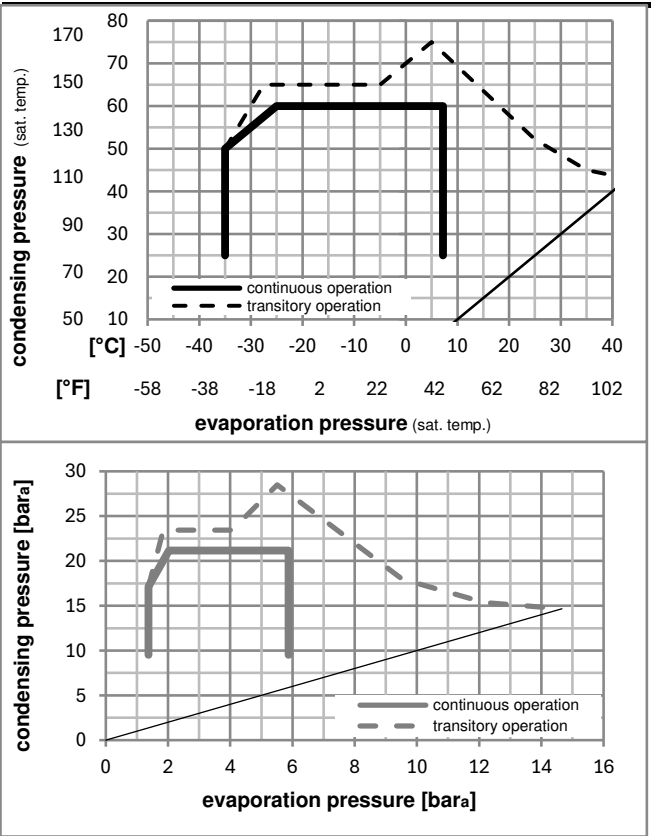
Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	208-230V/60Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	198-253V				
Starting torque	HST				
Approvals	UL				
	CCC				
	CB				
	KC				

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 (T0089/L6-S2)	117U7070
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	KLF4.8CNT	208-230V/60Hz	Conf. 3	Sales code:	106H2502
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Optimization + standard conditions

R290, 230V/60Hz, CSIR, fan 3m/s, UL, CCC, CB, KC

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				284,7				972				245,1				1,57				5,38				1,35			
-10				130				90				90				180,9				1,26				2,88				ASHRAE LBP											
-25				55				32				55				213,0				727				183,3				1,23				4,19				1,05			
-13				131				90				131				173,8				1,24				2,65				cecomaf LBP											
-35				40				20				40				160,5				548				138,2				1,19				4,07				1,03			
-31				104				68				104				134,7				1,14				1,83				EN12900 LBP											
-7				54				35				46				520,0				1776				447,5				2,09				7,13				1,80			
20				130				95				115				249,1				1,47				5,93				ASHRAE MBP											
-10				55				32				55				411,0				1404				353,7				1,73				5,92				1,49			
14				131				90				131				237,1				1,43				5,20				cecomaf MBP											
-10				45				20				45				462,7				1580				398,2				2,09				7,12				1,79			
14				113				68				113				221,9				1,38				5,68				EN12900 MBP											

Performance tables

R290, 230V/60Hz, CSIR, fan 3m/s, UL, CCC, CB, KC

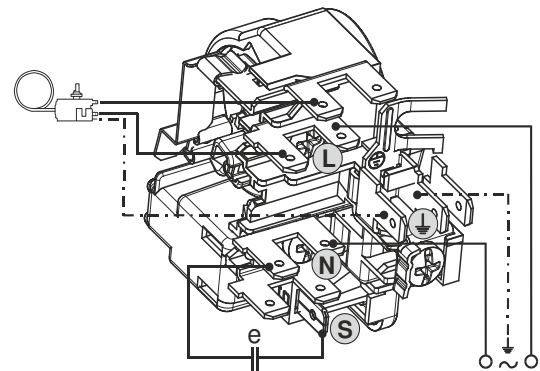
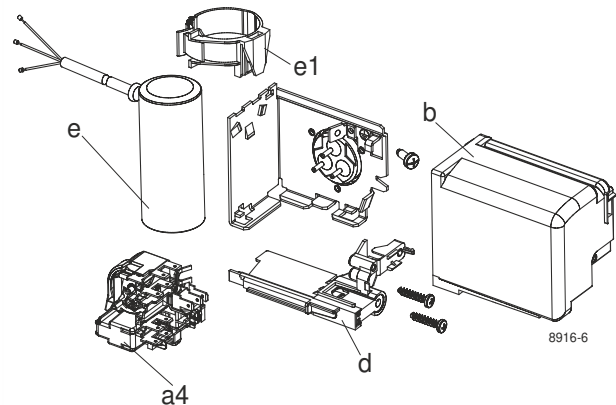
	pe		Cooling capacity			COP		EER			P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]		[Btu/Wh]	[kcal/Wh]		[W]		[A]		[kg/h]	
[°C / °F]	-35	-31	152,8	522	131,5	1,13		3,85	0,97		135,7		1,15		1,71	
cond. pressure	-25	-13	253,2	865	217,9	1,48		5,05	1,27		171,1		1,23		2,86	
pc= 45/113	-15	5	394,3	1347	339,3	1,91		6,53	1,65		206,1		1,33		4,49	
return gas temp.	-10	14	481,7	1645	414,6	2,17		7,41	1,87		221,9		1,38		5,51	
RGT= 32/90	-5	23	581,2	1985	500,2	2,46		8,42	2,12		235,9		1,42		6,69	
liquid temp	0	32	693,5	2369	596,9	2,80		9,57	2,41		247,4		1,46		8,04	
Tliq= 45/113	7,2	45	879,0	3002	756,5	3,40		11,61	2,92		258,6		1,50		10,33	
[°C / °F]	-35	-31	130,2	445	112,0	0,98		3,36	0,85		132,4		1,14		1,61	
cond. pressure	-25	-13	213,0	727	183,3	1,23		4,19	1,05		173,8		1,24		2,65	
pc= 55/131	-15	5	334,3	1142	287,7	1,54		5,27	1,33		216,6		1,36		4,20	
return gas temp	-10	14	411,0	1404	353,7	1,73		5,92	1,49		237,1		1,43		5,20	
RGT= 32/90	-5	23	499,3	1705	429,7	1,95		6,66	1,68		256,2		1,49		6,36	
liquid temp	0	32	599,8	2048	516,2	2,19		7,49	1,89		273,3		1,55		7,70	
Tliq= 55/131	7,2	45	767,2	2620	660,2	2,61		8,93	2,25		293,4		1,62		9,99	

Model					
Designation	KLF4.8CNT	208-230V/60Hz	Conf. 4	Sales code:	106H2502

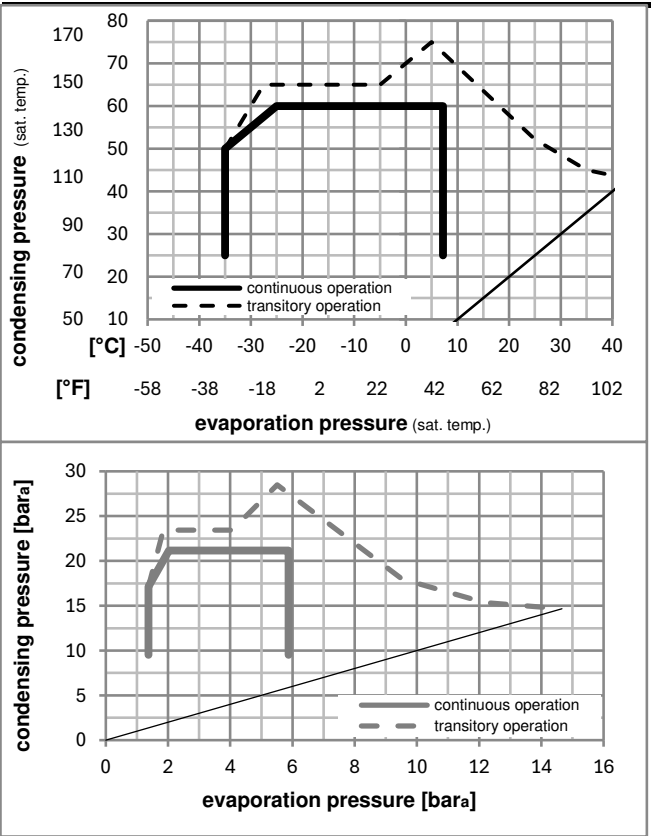
Configuration		Electrical accessories / wiring diagram			
Motor configuration	RSCR	RSCR			
Power supply (nominal)	208-230V/60Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	198-253V				
Starting torque	LST				
Approvals	UL				
	CCC				
	CB				
	KC				

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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e	run capacitor (5μF, 6,3mm)	117-7155
b, d	cover + clamp + screws(5VA-compl.)	103N0600
e1	retaining clamp	103N0535

Alternative components

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

Model

Designation	KLF4.8CNT	208-230V/60Hz	Conf. 4	Sales code:	106H2502
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Optimization + standard conditions

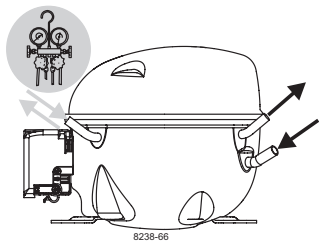
R290, 230V/60Hz, RSCR, fan 3m/s, UL, CCC, CB, KC

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Performance tables

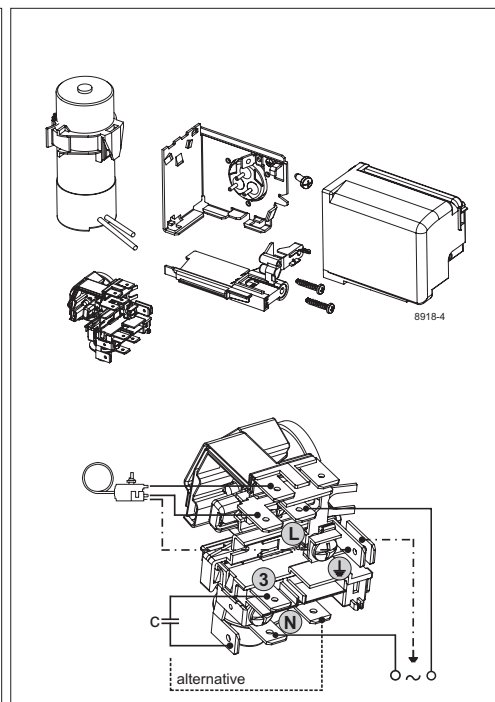
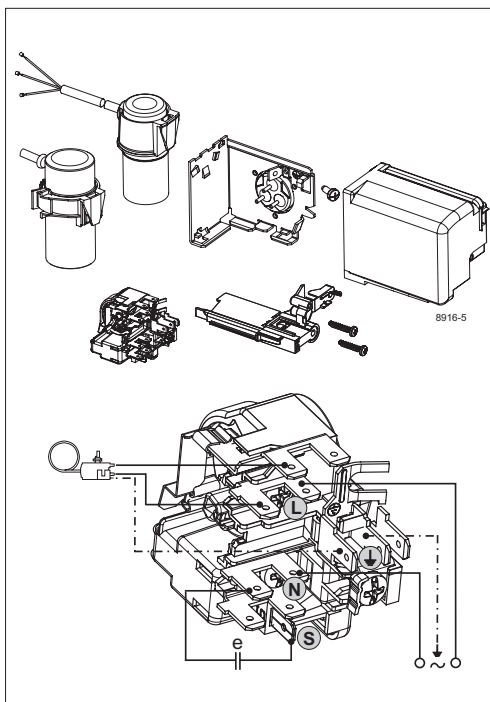
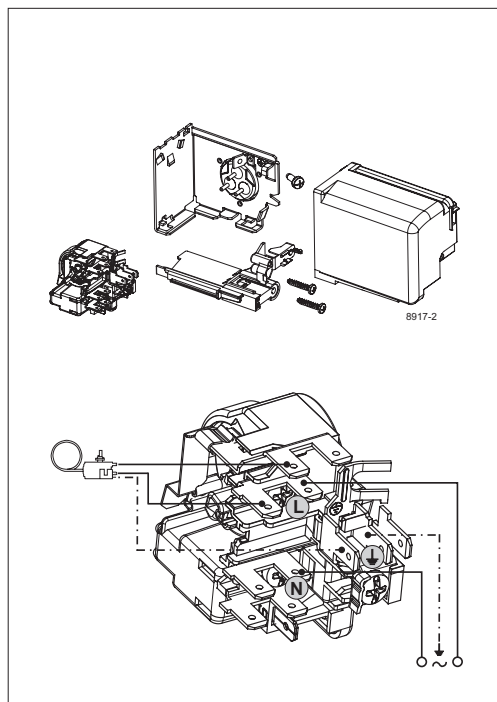
R290, 230V/60Hz, RSCR, fan 3m/s, UL, CCC, CB, KC

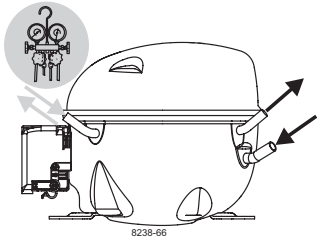
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/W/h]	[kcal/W/h]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	156,8	536	135,0	1,17	4,00	1,01	133,7	0,77	1,76
cond. pressure	-25	-13	257,1	878	221,3	1,54	5,25	1,32	167,4	0,90	2,90
pc= 45/113	-15	5	396,4	1354	341,1	1,99	6,81	1,72	198,7	1,03	4,51
return gas temp.	-10	14	483,4	1651	416,0	2,27	7,75	1,95	213,0	1,09	5,53
RGT= 32/90	-5	23	583,3	1992	502,0	2,58	8,81	2,22	226,0	1,14	6,72
liquid temp	0	32	697,2	2381	600,0	2,93	10,02	2,53	237,6	1,19	8,09
Tliq= 45/113	7,2	45	888,1	3033	764,3	3,53	12,07	3,04	251,4	1,25	10,43
[°C / °F]	-35	-31	131,3	448	113,0	1,03	3,51	0,88	127,8	0,75	1,62
cond. pressure	-25	-13	209,7	716	180,4	1,28	4,36	1,10	164,1	0,88	2,61
pc= 55/131	-15	5	326,8	1116	281,2	1,62	5,54	1,40	201,5	1,04	4,11
return gas temp	-10	14	402,5	1375	346,4	1,83	6,25	1,57	220,0	1,12	5,09
RGT= 32/90	-5	23	491,1	1677	422,6	2,06	7,04	1,77	238,2	1,19	6,26
liquid temp	0	32	593,6	2027	510,9	2,32	7,93	2,00	255,7	1,27	7,62
Tliq= 55/131	7,2	45	768,0	2623	660,9	2,75	9,38	2,36	279,6	1,37	10,00



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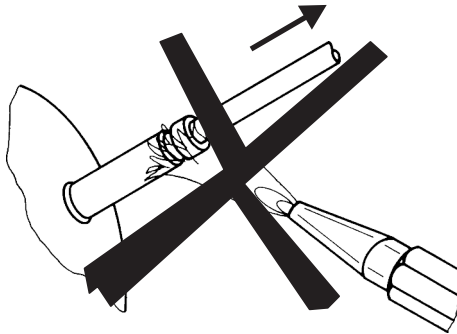




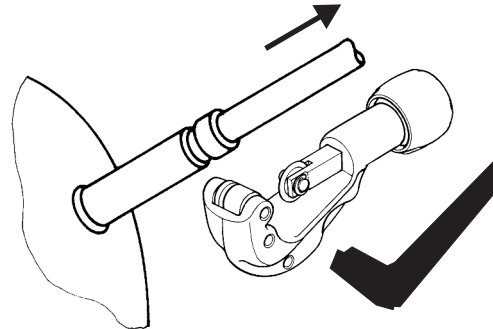
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