

Model

Designation	DLE5.7CN	115-127V/60Hz 1~	Sales code:	102H5601
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	5,7cm ³ / 0,35cu.in
Oil quantity	221cm ³ / 7,5fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1465cm ³ / 49,5fl.oz		
Weight	8,2kg / 18,1lbs		
Motor protection	1# internal		
Winding resistance main	2,72Ω (at 25°C)		
Winding resistance aux	6,35Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with DLE5.7CN

	Conf. 1
Motorconfiguration	RSCR
Power supply (nominal)	115-127V/60Hz
Number of phases	1
Voltage range	95-135V
Approvals	UL, CCC
Starting torque	LST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with DLE5.7CN

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

Electrical data - Configurations with DLE5.7CN

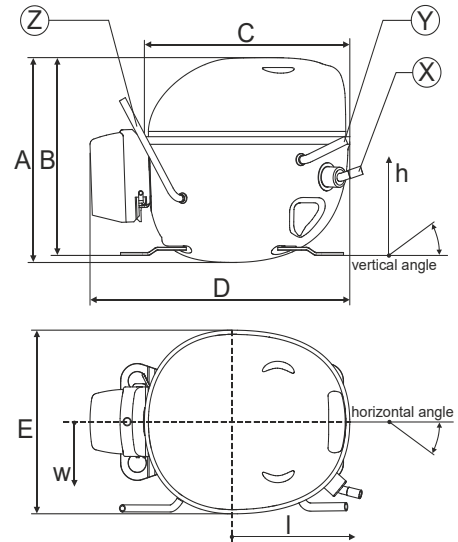
	Conf. 1
Starting device type	PTC
Run capacitor	15μF
Start capacitor	-/-
LRA (locked rotor amps / 4s)	17,59A
RLA (rated load amps / 1s)	3,35A
Cut in current	25,4A
IP class	21

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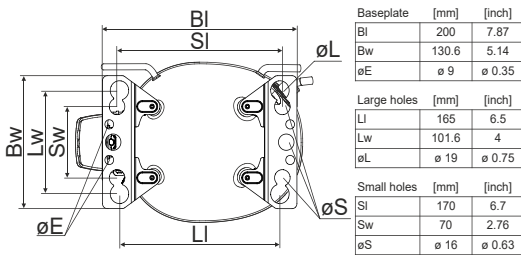
Compressor dimensions

Housing	A Height	174mm / 6,85in
	B Height	168mm / 6,61in
	C Length shell	183mm / 7,2in
	D Length w. cover	232mm / 9,13in
	E Width	156mm / 6,14in

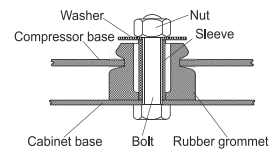


Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,4-6,6
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	10°	0°	0°
Vertical angle	±2°	18°	25°	119°
Position l/h/w	[mm]	135/77/67	98/96/72	-98/133/73
	[in]	5,3/3/2,6	3,8/3,8/2,8	-3,9/5,2/2,9
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

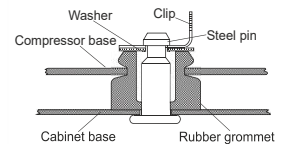
Compressor fixation



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

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

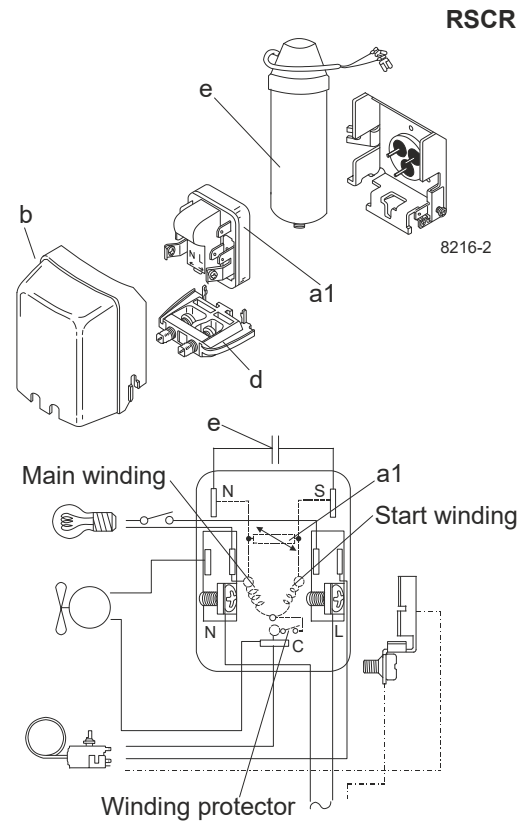
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Configuration

Motorconfiguration	RSCR	
Power supply (nominal)	115-127V/60Hz 1~	
Refrigerant	R290	
Application	LBP+MBP	
Voltage range	95-135V	
Starting torque	LST	
Approvals	UL	SA3693
	CCC	

Electrical accessories / wiring diagram

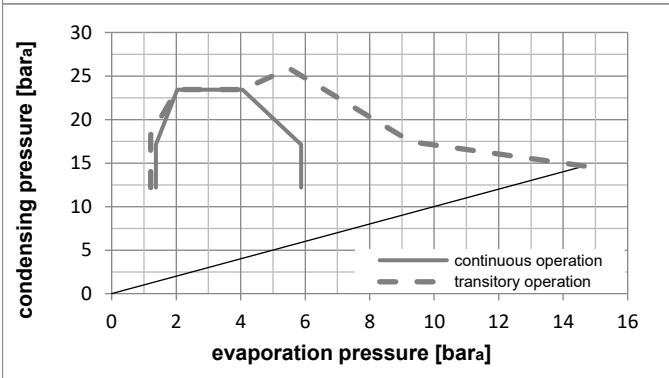
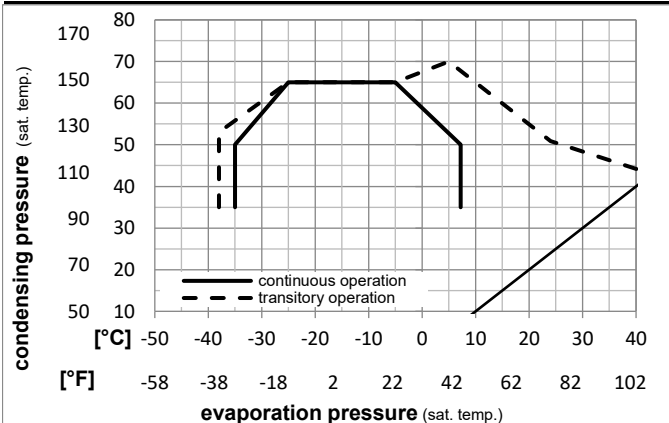


Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	fan 3m/s	n/a
38°C / 100°F	fan 3m/s	fan 3m/s	n/a
43°C / 110°F	fan 3m/s	fan 3m/s	n/a

Operation pressure range



Components (already pre-assembled)

a1	e-PTC starter	103N0058
e	assy. run capacitor (15μF, 6.3mm)	117-7148
b	plastic cover	103N0492
d	cord relief	103N1010

Alternative components

e	run capacitor (15μF, 6.3mm)	117-7118
	bracket for run capacitor	117-0300
	screw M4x8mm	117-0301

Model

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Optimization + standard conditions

115V/60Hz, RSCR, fan 3m/s, UL, CCC

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)						Power consumption			
		Return gas temp.				Liquid temp.						Current consumption		Ref. mass flow	
		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]	-23,3	54,4	32,2	32,2	351,4	1200	302,4	1,60	5,46	1,38	219,6	2,74	3,56	ASHRAE	LBP
[°F]	-10	130	90	90											
[°C]	-25	55	32	55	263,7	901	226,9	1,24	4,23	1,07	212,7	2,70	3,28	cecomaf	LBP
[°F]	-13	131	89,6	131											
[°C]	-35	40	20	40	200,3	684	172,4	1,23	4,19	1,06	163,1	2,44	2,29	EN12900	LBP
[°F]	-31	104	68	104											
[°C]	-6,66	54,4	35	46,1	616,1	2104	530,2	2,11	7,22	1,82	291,4	3,24	7,03	ASHRAE	MBP
[°F]	20	130	95	115											
[°C]	-10	55	32	55	491,5	1679	423,0	1,76	6,01	1,51	279,2	3,14	6,22	cecomaf	MBP
[°F]	14	131	89,6	131											
[°C]	-10	45	20	45	545,0	1861	469,0	2,13	7,28	1,84	255,5	2,98	6,69	EN12900	MBP
[°F]	14	113	68	113											

Performance tables

115V/60Hz, RSCR, fan 3m/s, UL, 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	191,8	655	165,0	1,16	3,95	1,00	165,6	2,45	2,15		
cond. pressure	-23,3	-10	332,1	1134	285,8	1,60	5,45	1,37	207,9	2,67	3,75		
pc= 45/113	-15	5	468,6	1600	403,3	1,97	6,72	1,69	238,2	2,86	5,33		
return gas temp.	-9,4	15	579,2	1978	498,5	2,25	7,68	1,94	257,4	2,99	6,63		
RGT= 32/90	-3,9	25	707,3	2416	608,7	2,57	8,78	2,21	275,3	3,12	8,16		
liquid temp	0	32	808,2	2760	695,5	2,82	9,63	2,43	286,7	3,21	9,37		
Tliq= 45/113	7,2	45	1022,0	3490	879,5	3,35	11,44	2,88	305,0	3,36	12,01		
[°C / °F]	-35	-31	157,4	538	135,5	0,94	3,21	0,81	167,7	2,46	1,95		
cond. pressure	-23,3	-10	284,6	972	244,9	1,29	4,41	1,11	220,3	2,74	3,55		
pc= 55/131	-15	5	405,0	1383	348,5	1,57	5,37	1,35	257,7	2,99	5,09		
return gas temp	-9,4	15	501,8	1714	431,9	1,78	6,09	1,53	281,6	3,16	6,35		
RGT= 32/90	-3,9	25	613,7	2096	528,2	2,02	6,89	1,74	304,1	3,33	7,83		
liquid temp	0	32	701,8	2397	604,0	2,20	7,52	1,90	318,7	3,45	9,01		
Tliq= 55/131	7,2	45	888,7	3035	764,8	2,59	8,85	2,23	342,8	3,65	11,58		