

Model

Designation	NLE8.8CN	115-127V/60Hz 1~	Sales code:	105H6096
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	8,76cm ³ / 0,53cu.in
Oil quantity	260cm ³ / 8,8fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	400g / 14,1oz		
Free gas volume comp.	2360cm ³ / 79,8fl.oz		
Weight	10,9kg / 24lbs		
Motor protection	1# internal		
Winding resistance main	1,6Ω (at 25°C)		
Winding resistance aux	5,1Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	120°C / 248°F		



General - Configurations with NLE8.8CN

Conf. 1	
Motor configuration	CSIR
Power supply (nominal)	115V/60Hz
Number of phases	1
Voltage range	95-135V
Approvals	UL
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with NLE8.8CN

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 NLE8.8CN

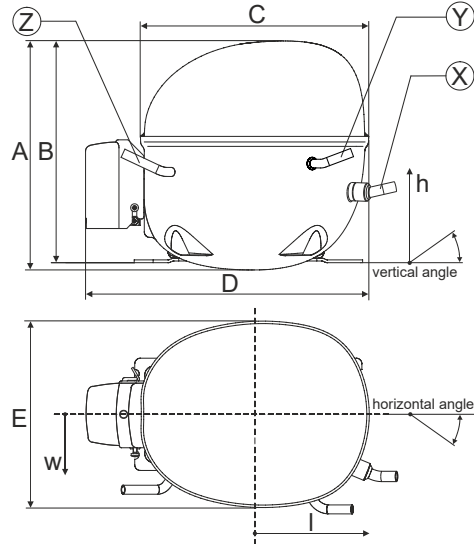
Conf. 1	
Starting device type	relay
Run capacitor	-/-
Start capacitor	280μF
LRA (locked rotor amps / 4s/ U(N))	32,01A
RLA (rated load amps / 1s/ U(N))	5,33A
Cut in current (U(N))	32,01A

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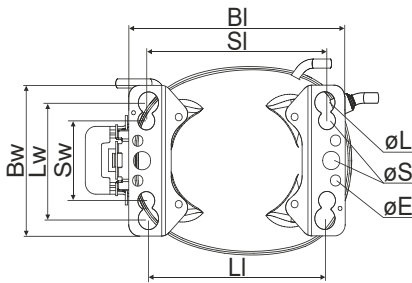
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in



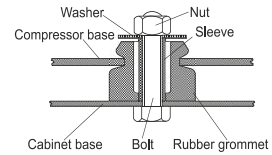
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	ø 8,11-8,29	ø 6,41-6,59	ø 6,41-6,59
(i:inside, o:outside)	[in]	ø 0,32-0,33	ø 0,25-0,26	ø 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	21°	155°
Position l/h/w	[mm]	132/69/57	94/102/81	-109/94/72
	[in]	5,2/2,7/2,2	3,7/4/3,2	-4,3/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

Compressor fixation

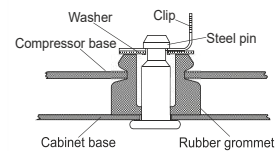


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

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

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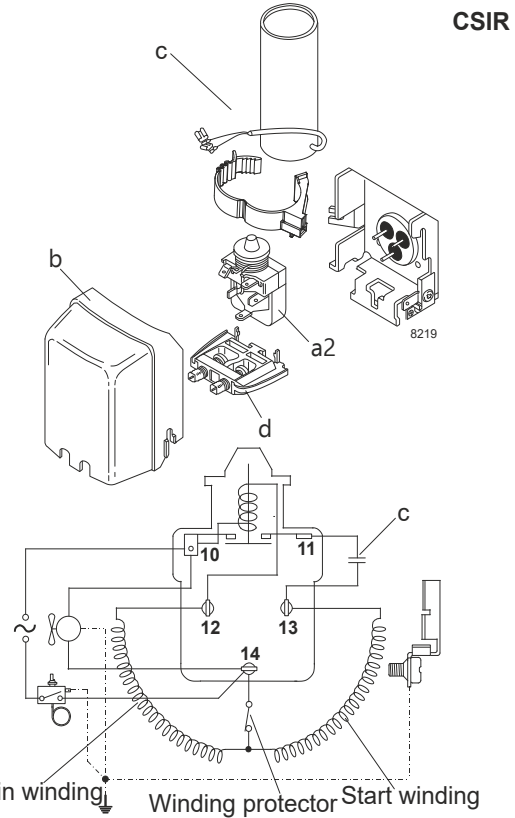
Configuration

Motor configuration	CSIR	
Power supply (nominal)	115V/60Hz 1~	
Refrigerant	R290	
Application	LBP+MBP	
Voltage range	95-135V	
Starting torque	HST	
Approvals	UL	SA3693

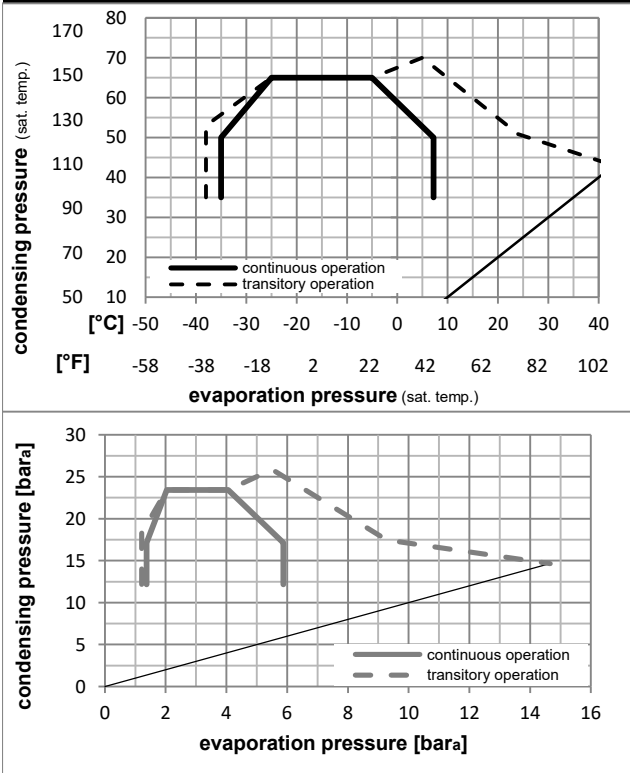
Electrical accessories / wiring diagram

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 (incl. and pre. assemb.)

a2	current relay	117U7014
c	start capacitor (280µF)	117U5025
b	plastic cover	103N2011
d	cord relief	103N1010

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Optimization + standard conditions

R290, 115V/60Hz, CSIR, fan 3m/s, UL

	Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER		Power consumption			
	Condensing pressure (saturation temperature)										Current consumption		Ref. mass flow	
	Return gas temp.										I		m	
	Liquid temp.													
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1 [W]	I [A]	m [kg/h]	
[°C]	-23	54	32	32	512,6	1751	441,2	1,57	5,37	1,35	325,8	4,24	5,19	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	384,4	1313	330,8	1,22	4,16	1,05	315,7	4,18	4,79	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	304,3	1039	261,9	1,26	4,30	1,08	241,7	3,80	3,48	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	915,3	3126	787,7	2,08	7,11	1,79	439,5	5,00	10,44	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	728,1	2486	626,6	1,75	5,98	1,51	416,1	4,83	9,21	cecomaf MBP
[°F]	14	131	90	131										
[°C]	-10	45	20	45	807,7	2758	695,1	2,08	7,10	1,79	388,3	4,64	9,92	EN12900 MBP
[°F]	14	113	68	113										

Performance tables

R290, 115V/60Hz, CSIR, fan 3m/s, UL

	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]	-23	-10	493,0	1684	424,3	1,60	5,46	1,37	308,7	4,15	5,57
cond. pressure	-23	-10	493,0	1684	424,3	1,60	5,46	1,37	308,7	4,15	5,57
pc= 45/113	-15	5	695,8	2376	598,8	1,95	6,68	1,68	356,0	4,43	7,92
return gas temp.	-9	15	858,1	2931	738,5	2,19	7,47	1,88	392,1	4,67	9,82
RGT= 32/90	-4	25	1042,6	3561	897,3	2,40	8,20	2,07	434,1	4,96	12,02
liquid temp	0	32	1185,3	4048	1020,1	2,53	8,65	2,18	468,0	5,20	13,75
Tliq= 45/113	7,2	45	1480,2	5055	1273,8	2,72	9,31	2,34	543,2	5,74	17,39
[°C / °F]	-23	-10	415,0	1417	357,2	1,27	4,34	1,09	326,6	4,24	5,17
cond. pressure	-23	-10	415,0	1417	357,2	1,27	4,34	1,09	326,6	4,24	5,17
pc= 55/131	-15	5	596,3	2036	513,2	1,56	5,34	1,35	381,3	4,59	7,50
return gas temp	-9	15	743,8	2540	640,1	1,77	6,05	1,52	420,2	4,86	9,42
RGT= 32/90	-4	25	913,1	3118	785,8	1,97	6,73	1,70	463,2	5,19	11,65
liquid temp	0	32	1044,9	3568	899,2	2,10	7,18	1,81	496,7	5,45	13,42
Tliq= 55/131	7,2	45	1319,0	4505	1135,2	2,32	7,92	2,00	569,0	6,04	17,18