

Model

NLE10CN

Sales code:

105H7175

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.90 kg / 24.03lbs
Displacement	10.09 cm3 / 0.62cu.in
Compressors on pallet	80



General – Configurations With NLE10CN

–	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC, EAC
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Electrical equipment is included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

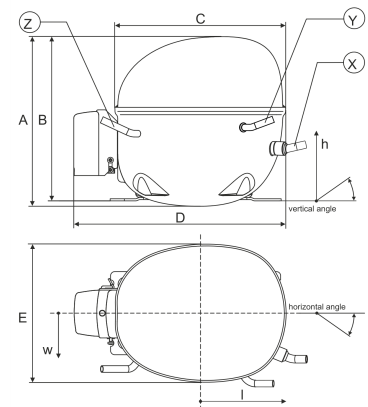
Oil type	POE	Winding resistance main	9.100 Ohm
Oil viscosity	32cSt	Winding resistance aux	18.00 Ohm
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. winding temp.	125 °C
Motor protection	internal	Max. discharge temp.	120°C / 248°F

Compressor Dimensions

Housing

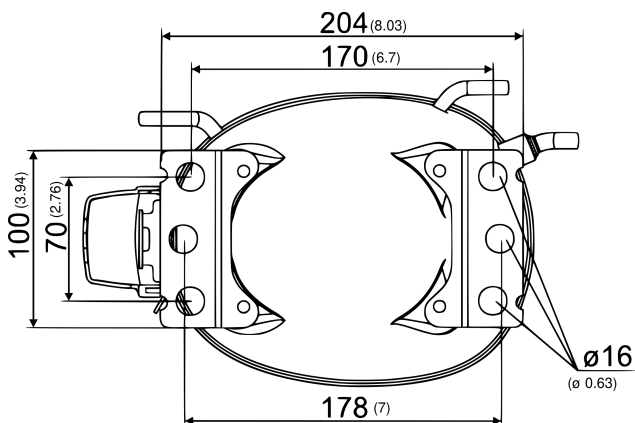
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

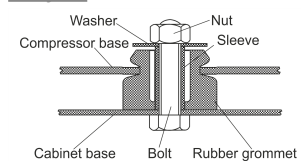


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-109.3/94.3/72 / -4.30/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	one comp.	multi pack
Bolt joint M6 Ø16mm	118-1917	118-1918
Bolt joint Ø1/4" Ø16mm	118-1946	–
Snap-on Ø7,3 Ø16mm	118-1947	118-1919

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	12.25 A
RLA (rated load amps / 1s/ U(N))	2.58 A
Cut in current (U(N))	12.25 A

Ambient/ machine room temperatures minimum /maximum

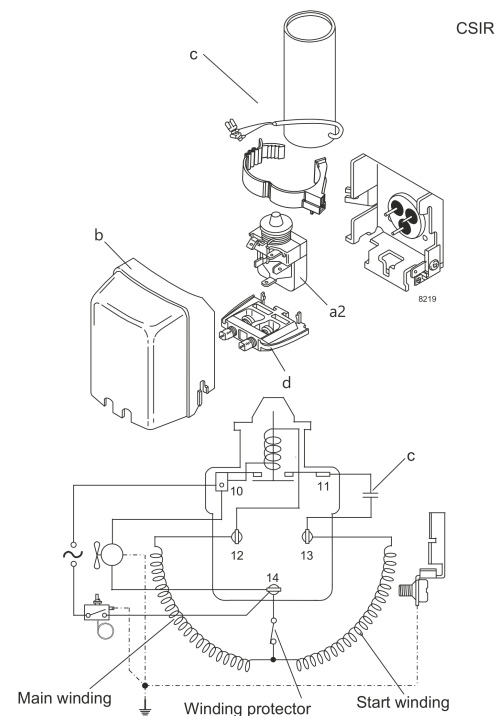
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (already pre-assembled)

a2 relay 117U7002

c start capacitor (80µF) 117U5015

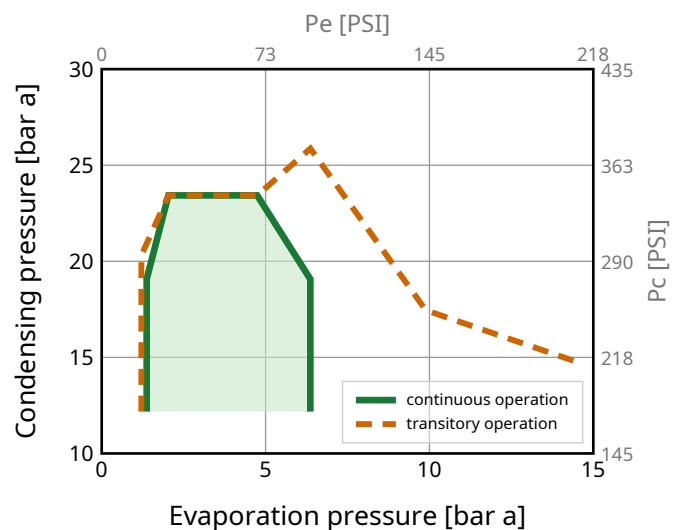
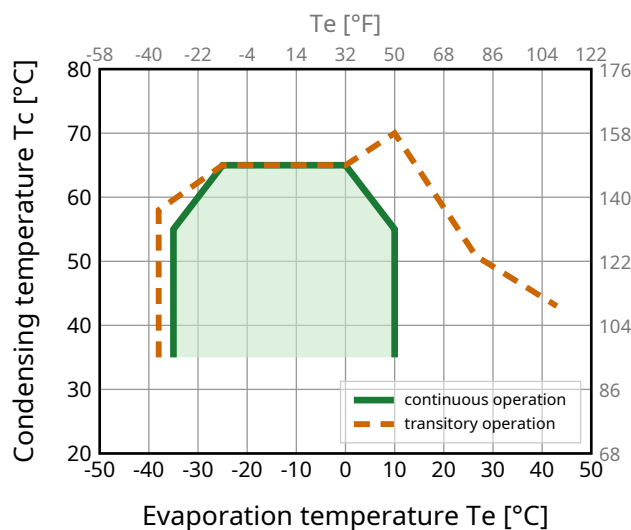
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	488	1665	420	1.47	5.02	332	2.15	4.96	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	362	1237	312	1.14	3.88	319	2.11	4.54	CECOMAF LBP
-35 -31	40 104	20 68	40 104	286	974	246	1.23	4.21	232	1.87	3.28	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	873	2979	751	1.89	6.45	462	2.62	10.00	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	693	2365	596	1.58	5.38	439	2.53	8.81	CECOMAF MBP
-10 14	45 113	20 68	45 113	782	2669	673	1.97	6.70	398	2.39	9.63	EN12900 MBP

Performance Tables

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

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	274	935	236	1.16	3.96	236	1.89	3.09
-30	-22	347	1185	299	1.29	4.41	269	1.97	3.92
-20	-4	544	1855	468	1.62	5.53	335	2.17	6.18
-10	14	813	2774	699	2.04	6.97	398	2.39	9.34
0	32	1164	3971	1001	2.59	8.84	449	2.58	13.53
10	50	1603	5470	1379	3.33	11.36	482	2.70	18.96

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	216	735	185	0.88	3.01	245	1.91	2.68
-30	-22	282	963	243	1.01	3.44	280	2.00	3.53
-20	-4	457	1560	393	1.27	4.35	359	2.24	5.75
-10	14	693	2365	596	1.58	5.38	439	2.53	8.81
0	32	998	3406	859	1.94	6.62	514	2.82	12.87
10	50	1381	4712	1188	2.39	8.16	577	3.09	18.14