

Model
NLE10CN

Sales code:
105H6176

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	eRSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
Starting torque	LST
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

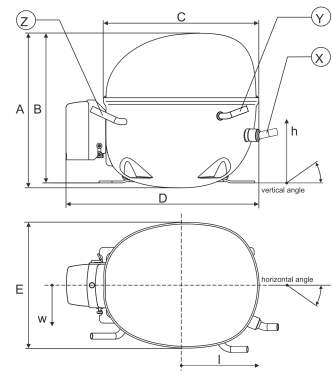
Oil type	POE	Winding resistance main	7.79 Ohm
Oil viscosity	32cSt	Winding resistance aux	18.39 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	120°C / 248°F
Motor protection	internal		

Compressor Dimensions

Housing

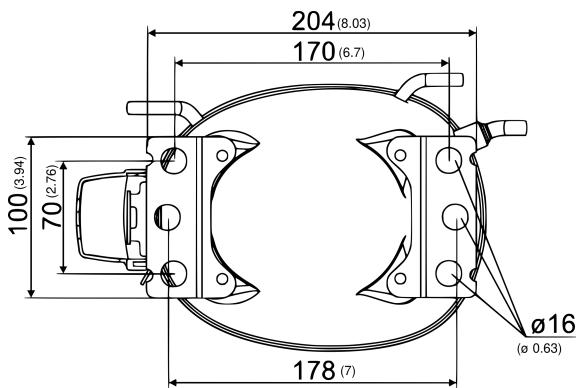
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

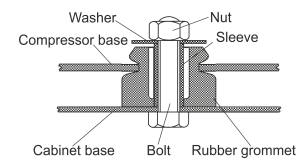


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in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

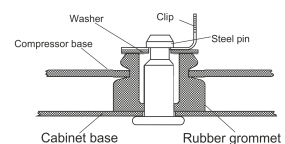
Mounting Accessories



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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Motor configuration	eRSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	LST
Approvals	VDE
Starting device type	e-PTC
Run capacitor	4 μF
Start capacitor	-/-
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

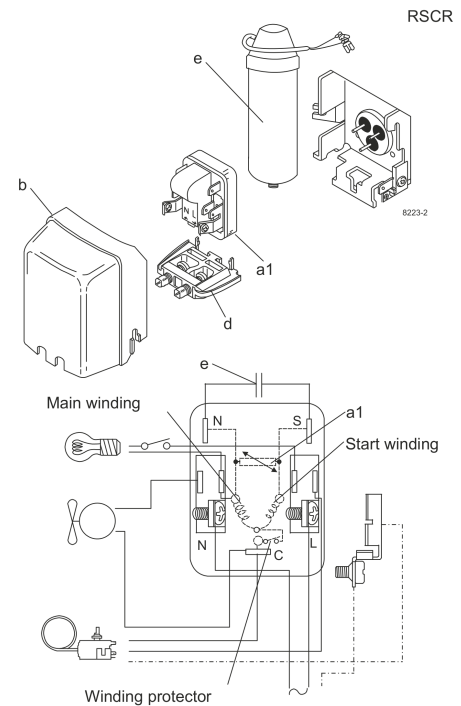
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (already pre-assembled)

a1 e-PTC starter (220V, 250hm, 4.8mm) 103N0050

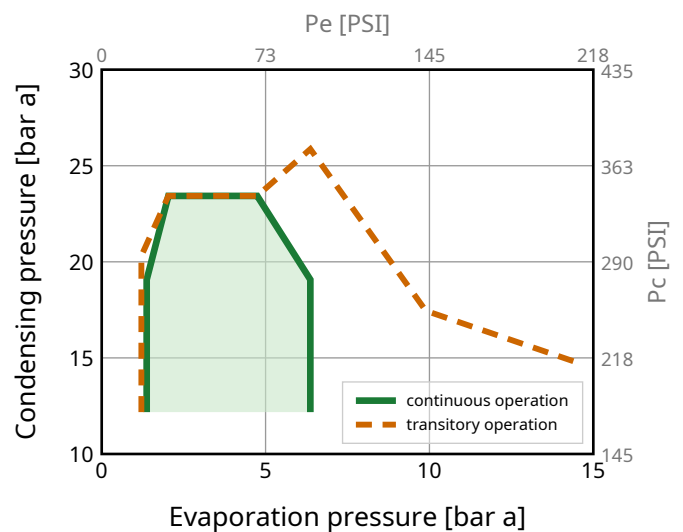
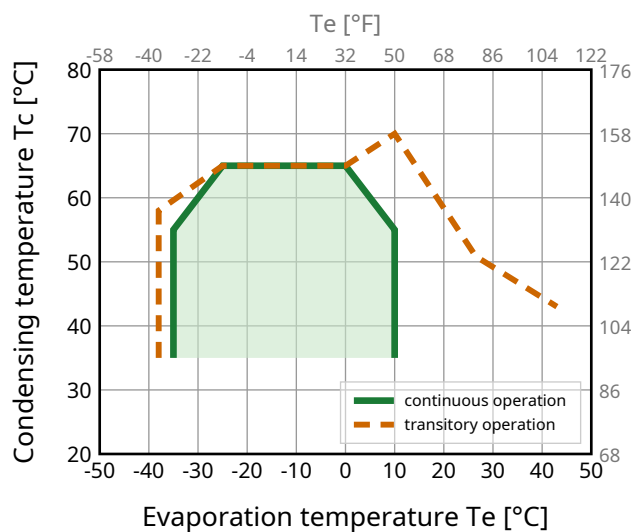
e assy. run capacitor (4 μ F, 4.8mm) 117-7144

b plastic cover 103N2010

d cord relief 103N0489

d cord relief 103N0126

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 Hz, eRSCR, 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	493	1682	424	1.54	5.26	320	1.88	5.01	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	366	1249	315	1.19	4.07	307	1.84	4.59	CECOMAF LBP
-35 -31	40 104	20 68	40 104	288	984	248	1.27	4.33	227	1.43	3.31	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	882	3009	758	1.99	6.79	443	2.29	10.10	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	700	2388	602	1.66	5.67	421	2.22	8.90	CECOMAF MBP
-10 14	45 113	20 68	45 113	790	2695	679	2.06	7.03	384	2.03	9.72	EN12900 MBP

Performance Tables

R290, 220 V/50 Hz, eRSCR, 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	277	944	238	1.20	4.08	232	1.46	3.12
-30	-22	351	1197	302	1.34	4.57	262	1.60	3.96
-20	-4	549	1874	472	1.69	5.78	324	1.83	6.25
-10	14	821	2802	706	2.14	7.31	384	2.03	9.43
0	32	1175	4010	1011	2.72	9.28	432	2.19	13.67
10	50	1619	5525	1393	3.50	11.92	463	2.29	19.15

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

-35	-31	218	742	187	0.92	3.15	236	1.59	2.71
-30	-22	285	973	245	1.05	3.60	271	1.72	3.56
-20	-4	462	1575	397	1.34	4.56	345	1.97	5.81
-10	14	700	2388	602	1.66	5.67	421	2.22	8.90
0	32	1008	3440	867	2.05	6.99	492	2.47	13.00
10	50	1395	4759	1199	2.54	8.66	549	2.71	18.33