

Model

NLE10DNDX

Sales code:

105H7010

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	300g / 10.58oz
Weight	11.30 kg / 24.91lbs
Displacement	10.10 cm3 / 0.62cu.in
Compressors on pallet	80



General – Configurations With NLE10DNDX

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

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

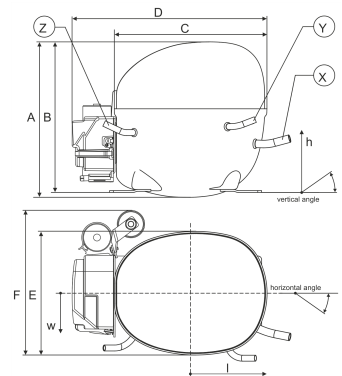
Oil type	POE	Winding resistance main	7.1 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.4 Ohm
Oil quantity	300 / 10.14fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

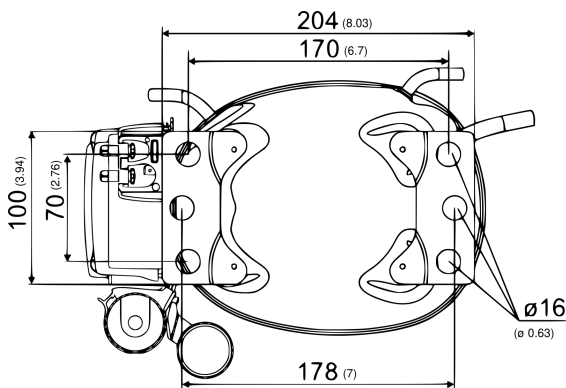
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	205mm / 8.07in
D Length w. cover	262mm / 10.31in
E Width	166mm / 6.54in

[Find 3D Model here](#)



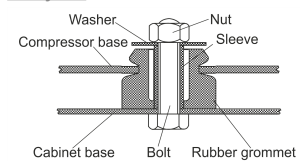
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74 / -4.29/3.66/2.91in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

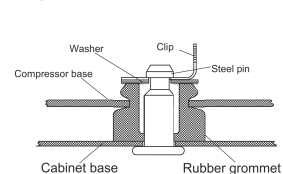


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP+HBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	16.8 A
RLA (rated load amps / 1s/ U(N))	2.3 A
Cut in current (U(N))	16.8 A

Ambient/ machine room temperatures minimum /maximum

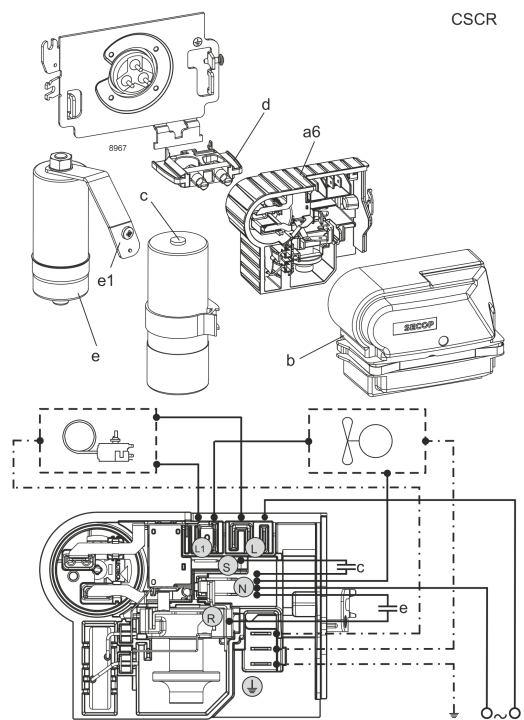
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a6 NL starter kit 117U8202

c start capacitor (80 μ F) 117U5353

e run cap (10 μ F, 6.3mm,c.length 280mm) 117-7166

b cover terminal board + clamp 117U1038

e1 retaining clamp 117-0314

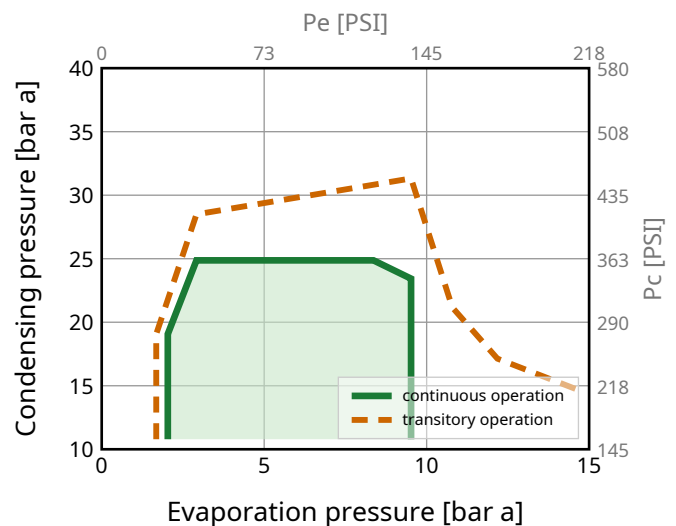
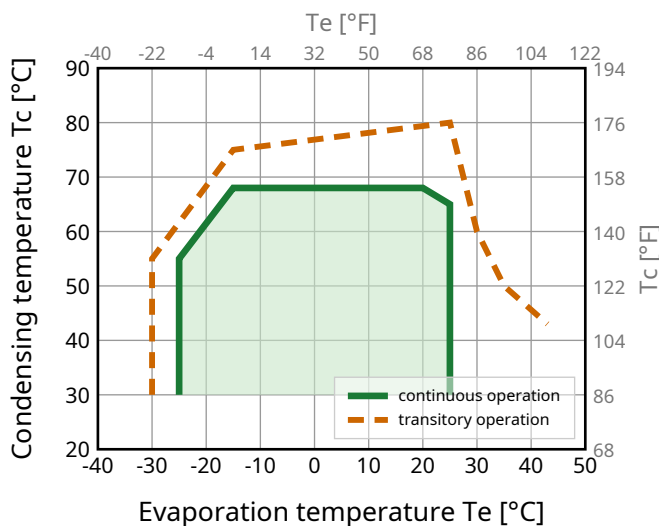
screw M4x8mm 117-0301

d cord relief 103N1007

Alternative components

e run cap (10 μ F, 6.3mm,c.length 350mm) 117-7170

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 Hz, CSCR, 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	901	3076	775	2.28	7.77	396	2.01	10.32	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	716	2443	616	1.91	6.50	376	1.93	9.11	CECOMAF MBP
-10 14	45 113	20 68	45 113	790	2695	679	2.26	7.71	349	1.82	9.72	EN12900 MBP
7.2 45	54.4 129.9	35 95	46.1 115	1467	5006	1262	3.08	10.50	477	2.34	17.13	ASHRAE HBP
5 41	55 131	32 89.6	55 131	1226	4184	1055	2.62	8.92	469	2.31	15.95	CECOMAF HBP
5 41	50 122	20 68	50 122	1254	4279	1078	2.83	9.65	444	2.21	16.70	EN12900 HBP

Performance Tables

R290, 220 V/50 Hz, CSCR, 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]
-25	-13	428	1461	368	1.58	5.38	272	1.48	4.85
-20	-4	544	1856	468	1.84	6.30	295	1.59	6.19
-10	14	821	2802	706	2.35	8.02	349	1.82	9.43
0	32	1182	4032	1016	2.96	10.11	399	2.03	13.74
10	50	1653	5640	1421	3.90	13.31	424	2.13	19.55
20	68	2262	7719	1946	5.59	19.07	405	2.04	27.38
25	77	2627	8965	2260	7.04	24.03	373	1.91	32.27

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

-25	-13	352	1201	303	1.18	4.03	298	1.60	4.41
-20	-4	463	1579	398	1.45	4.96	319	1.69	5.83
-10	14	716	2443	616	1.91	6.50	376	1.93	9.11
0	32	1034	3529	889	2.35	8.01	440	2.19	13.34
10	50	1445	4930	1243	2.94	10.02	492	2.40	18.99
20	68	1975	6739	1698	3.85	13.15	512	2.48	26.63
25	77	2294	7826	1972	4.54	15.51	505	2.44	31.44