

Model
NLE11MNDX

Sales code:
105H7103

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	300g / 10.58oz
Weight	11.80 kg / 26.01lbs
Displacement	11.15 cm3 / 0.68cu.in
Compressors on pallet	80



General – Configurations With NLE11MNDX

-	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
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

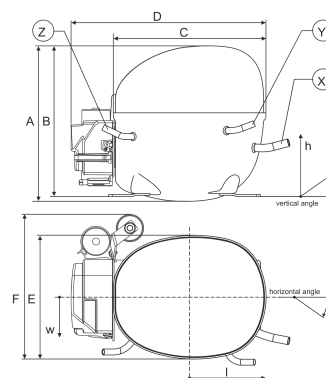
Oil type	POE	Winding resistance main	7.5 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.9 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

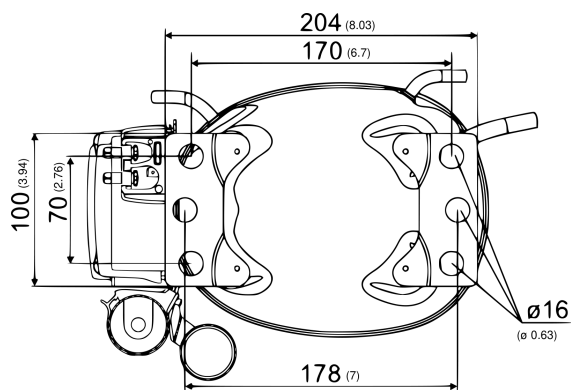
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	205mm / 8.07in
D Length w. cover	262mm / 10.31in
E Width	166mm / 6.54in

[Find 3D Model here](#)

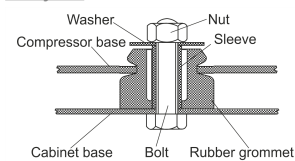


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74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

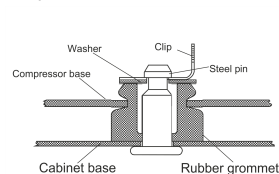
Mounting Accessories



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	CSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
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))	16.7 A
RLA (rated load amps / 1s/ U(N))	2.2 A
Cut in current (U(N))	16.7 A

Ambient/ machine room temperatures minimum /maximum

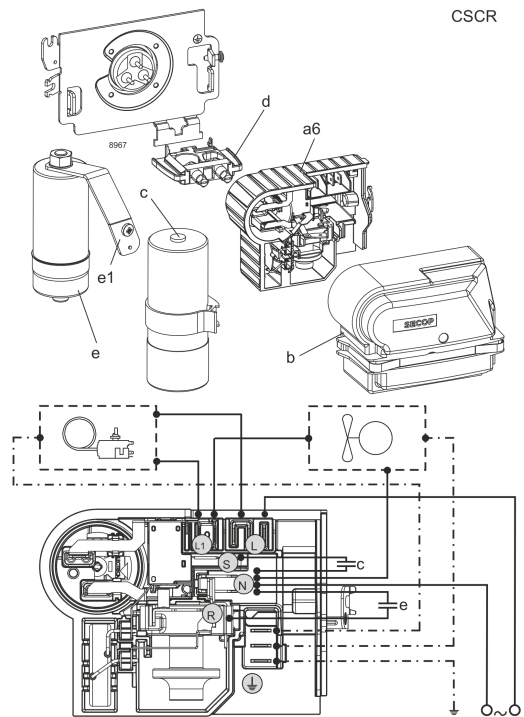
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117U8201

c start capacitor (80µF) 117U5353

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

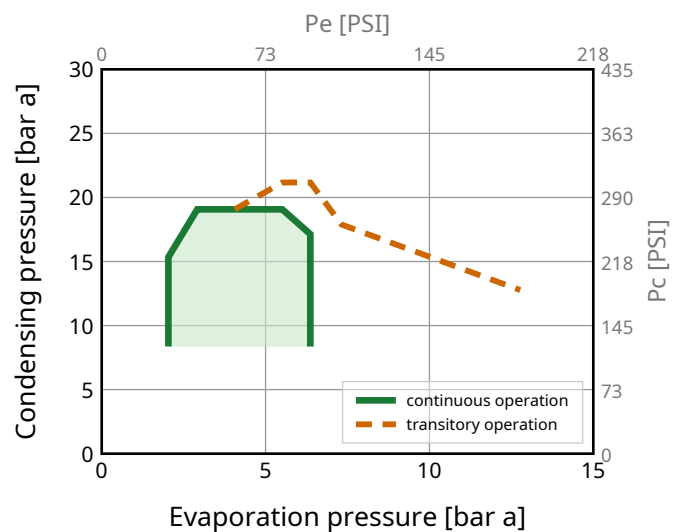
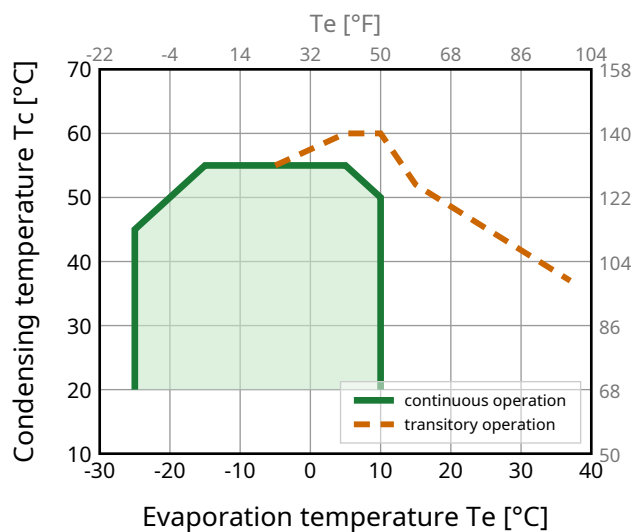
b cover terminal board + clamp 117U1038

e1 retaining clamp 117-0314

screw M4x8mm 117-0301

d cord relief 103N1007

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	999	3409	859	2.14	7.30	467	2.22	11.44	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	800	2728	688	1.79	6.10	447	2.13	10.17	CECOMAF MBP
-10 14	45 113	20 68	45 113	875	2986	753	2.17	7.40	404	1.93	10.77	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	932	3179	801	2.12	7.24	439	2.09	12.11	ARI540 MBP
-10 14	45 113	32 89.6	45 113	910	3105	783	2.25	7.69	404	1.93	10.45	opt MBP 1
-25 -13	45 113	32 89.6	45 113	499	1703	429	1.59	5.41	314	1.57	5.66	opt MBP 2

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	499	1703	429	1.59	5.41	314	1.57	5.66
-20	-4	618	2108	531	1.78	6.08	347	1.69	7.03
-15	5	754	2573	648	2.00	6.83	377	1.82	8.62
-10	14	910	3105	783	2.25	7.69	404	1.93	10.45
-5	23	1088	3711	935	2.55	8.70	426	2.04	12.56
0	32	1290	4400	1109	2.90	9.91	444	2.12	14.99
5	41	1518	5178	1305	3.34	11.39	455	2.17	17.79
10	50	1774	6054	1526	3.87	13.21	458	2.18	20.98

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

-25	-13	432	1473	371	1.30	4.42	333	1.65	5.41
-20	-4	539	1839	464	1.45	4.94	372	1.80	6.79
-15	5	661	2255	568	1.61	5.49	410	1.97	8.36
-10	14	800	2728	688	1.79	6.10	447	2.13	10.17
-5	23	957	3264	823	1.99	6.79	481	2.28	12.24
0	32	1135	3872	976	2.22	7.59	510	2.42	14.63
5	41	1336	4559	1149	2.50	8.53	535	2.53	17.38
10	50	1563	5333	1344	2.83	9.65	553	2.62	20.54