

Model
NLE13MNDX

Sales code:
105H7302

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	300g / 10.58oz
Weight	11.80 kg / 26.01lbs
Displacement	12.60 cm3 / 0.77cu.in
Compressors on pallet	80



General – Configurations With NLE13MNDX

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC
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

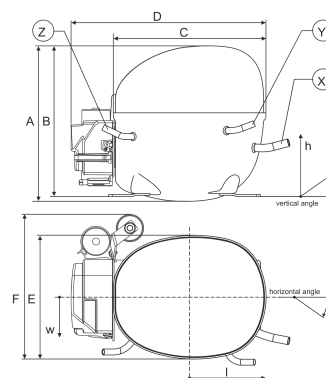
Oil type	POE	Winding resistance main	7.5 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.9 Ohm
Oil quantity	300 / 10.14fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

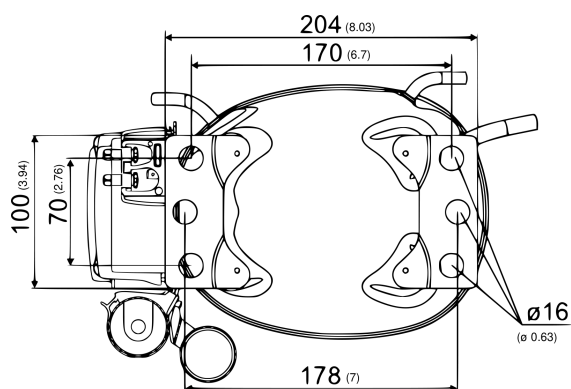
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	205mm / 8.07in
D Length w. cover	262mm / 10.31in
E Width	166mm / 6.54in

[Find 3D Model here](#)

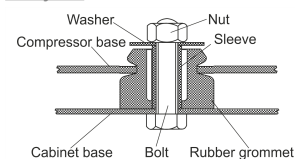


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74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

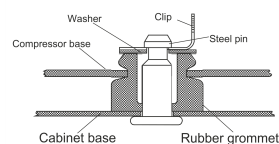
Mounting Accessories



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, CCC
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

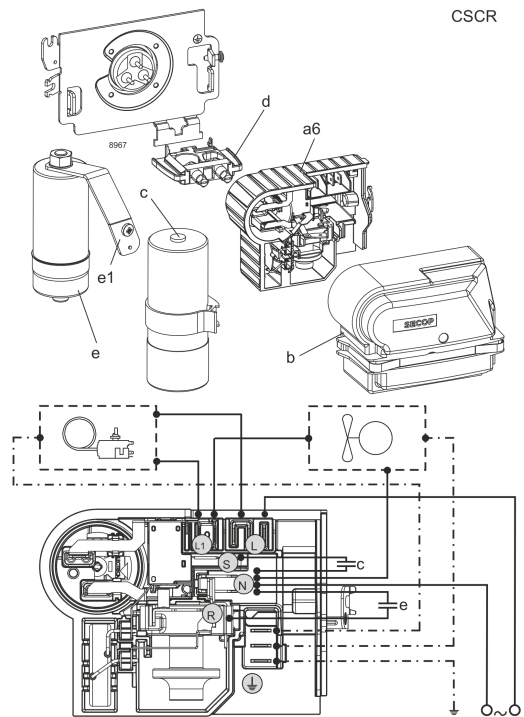
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

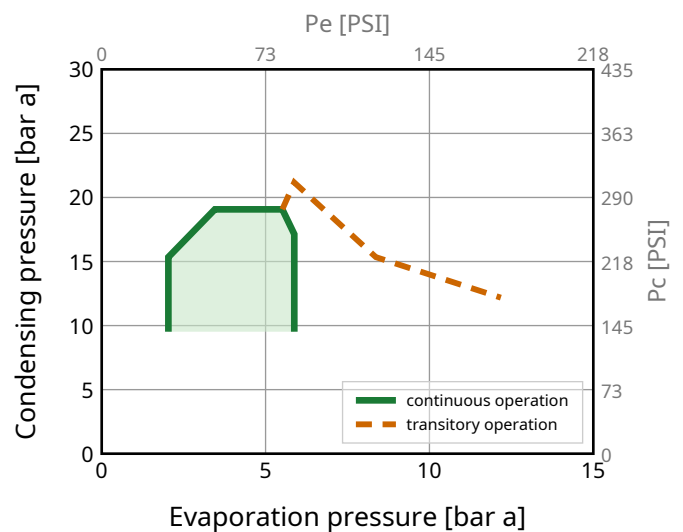
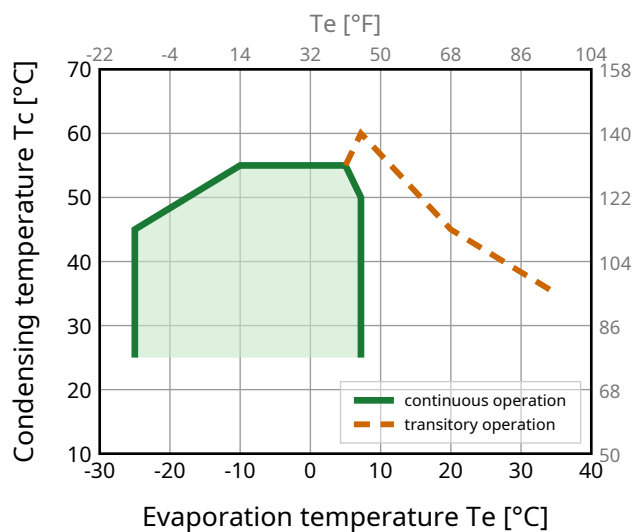
b cover terminal board + clamp 117U1038

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	1136	3878	977	2.09	7.14	543	2.55	13.01	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	906	3092	779	1.75	5.99	516	2.42	11.52	CECOMAF MBP
-10 14	45 113	20 68	45 113	1017	3469	874	2.19	7.49	463	2.19	12.51	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1074	3663	923	2.12	7.23	507	2.38	13.96	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1057	3606	909	2.28	7.79	463	2.19	12.14	opt MBP 1
-25 -13	45 113	32 89.6	45 113	570	1944	490	1.60	5.47	355	1.73	6.46	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	570	1944	490	1.60	5.47	355	1.73	6.46
-20	-4	710	2423	611	1.82	6.20	391	1.88	8.08
-15	5	872	2976	750	2.04	6.96	428	2.03	9.96
-10	14	1057	3606	909	2.28	7.79	463	2.19	12.14
-5	23	1266	4319	1089	2.56	8.72	495	2.33	14.62
0	32	1500	5118	1290	2.87	9.81	522	2.45	17.44
5	41	1761	6008	1514	3.25	11.10	541	2.54	20.64
7.2	45	1884	6429	1620	3.45	11.76	547	2.56	22.17

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

-25	-13	484	1652	416	1.30	4.44	372	1.80	6.07
-20	-4	605	2066	521	1.45	4.93	419	2.00	7.62
-15	5	746	2544	641	1.59	5.44	468	2.21	9.43
-10	14	906	3092	779	1.75	5.99	516	2.42	11.52
-5	23	1088	3713	936	1.93	6.60	563	2.63	13.93
0	32	1293	4412	1112	2.14	7.29	605	2.82	16.67
5	41	1522	5192	1309	2.38	8.10	641	2.99	19.80
7.2	45	1630	5563	1402	2.49	8.51	654	3.05	21.30