

Model
NLE12.6MN

Sales code:
105H6379

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	300g / 10.58oz
Weight	12.10 kg / 26.68lbs
Displacement	12.55 cm3 / 0.77cu.in
Compressors on pallet	80



General – Configurations With NLE12.6MN

–	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

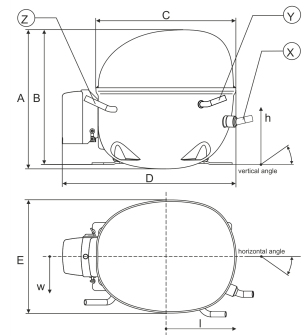
Oil type	POE	Winding resistance main	5 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.9 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

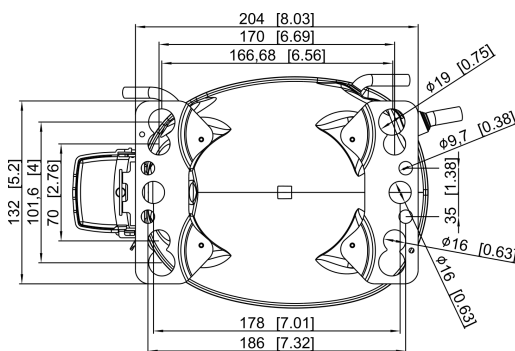
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)



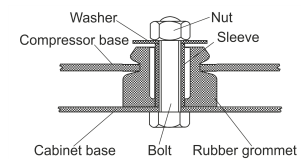
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-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

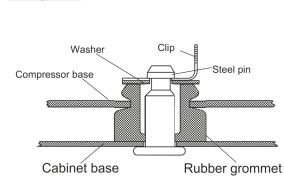


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	-
Bolt joint ø1/4" ø19mm	118-1949	-
Snap-on ø7,3 ø16mm	118-1947	118-1919

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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))	15.6 A
RLA (rated load amps / 1s/ U(N))	2.7 A
Cut in current (U(N))	21.2 A

Ambient/ machine room temperatures minimum /maximum

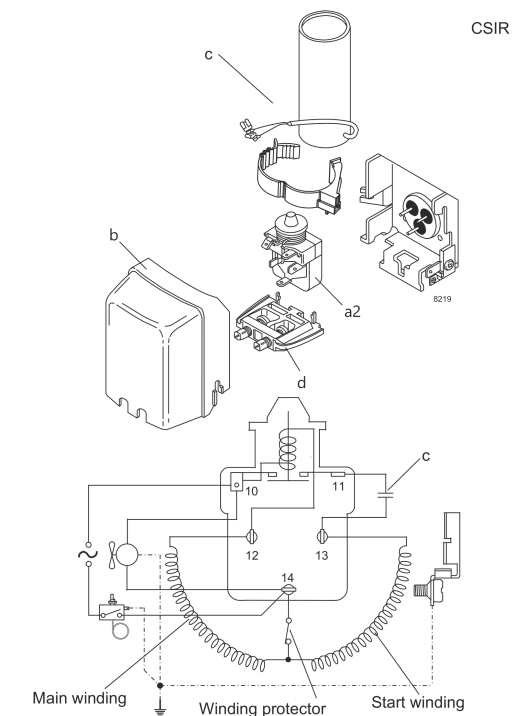
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117U7011

c start capacitor (80µF) 117U5015

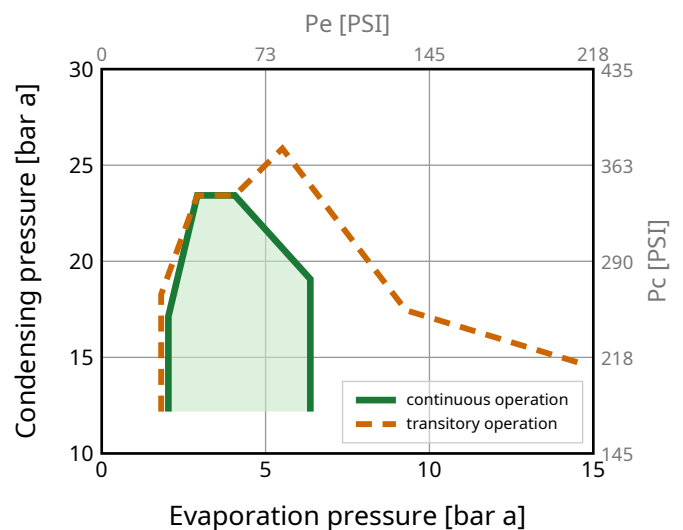
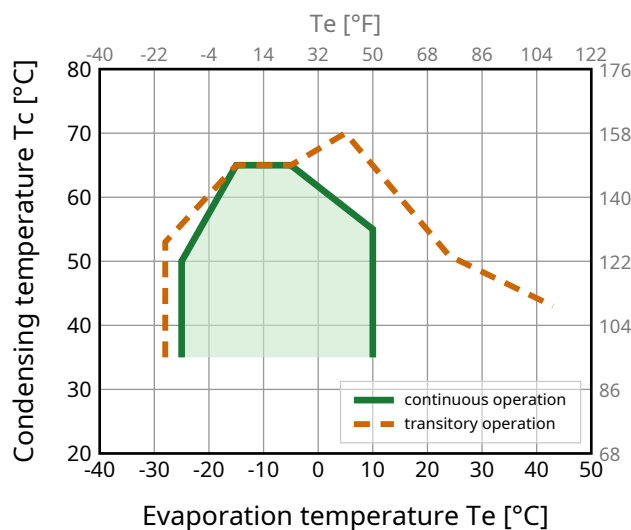
b plastic cover 103N2010

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	604	2060	519	1.57	5.34	386	2.54	6.13	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	452	1541	388	1.21	4.14	373	2.49	5.66	CECOMAF LBP
-35 -31	40 104	20 68	40 104	362	1237	312	1.33	4.54	272	2.14	4.16	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1061	3619	912	1.98	6.74	537	3.10	12.14	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	843	2875	725	1.66	5.66	508	2.99	10.72	CECOMAF MBP
-10 14	45 113	20 68	45 113	950	3242	817	2.06	7.01	462	2.77	11.70	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]
-25	-13	536	1830	461	1.53	5.21	352	2.41	6.08
-20	-4	663	2262	570	1.71	5.83	388	2.52	7.54
-15	5	813	2774	699	1.91	6.52	425	2.65	9.29
-10	14	988	3371	850	2.14	7.29	462	2.77	11.34
-5	23	1190	4059	1023	2.38	8.13	499	2.91	13.74
0	32	1420	4844	1221	2.65	9.06	535	3.06	16.51
5	41	1680	5731	1445	2.96	10.08	568	3.22	19.69
10	50	1972	6728	1696	3.29	11.22	600	3.39	23.32

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

-25	-13	452	1541	388	1.21	4.14	373	2.49	5.66
-20	-4	562	1916	483	1.35	4.62	415	2.65	7.07
-15	5	691	2359	595	1.50	5.13	460	2.81	8.74
-10	14	843	2875	725	1.66	5.66	508	2.99	10.72
-5	23	1017	3470	875	1.83	6.23	557	3.18	13.02
0	32	1216	4150	1046	2.00	6.83	608	3.39	15.69
5	41	1442	4921	1240	2.19	7.47	659	3.61	18.76
10	50	1696	5788	1459	2.39	8.15	710	3.85	22.29