

Model

NLE11MN

Sales code:

105H5982

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	12.14 kg / 26.76lbs
Displacement	11.15 cm3 / 0.68cu.in
Compressors on pallet	80



General – Configurations With NLE11MN

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	95-127 V	95-135 V
Approvals	UL, CCC	UL, CCC
Starting torque	HST	HST
Refrigerant	R290	R290
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	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

Model
NLE11MN

Sales code:
105H5982

Compressor Design

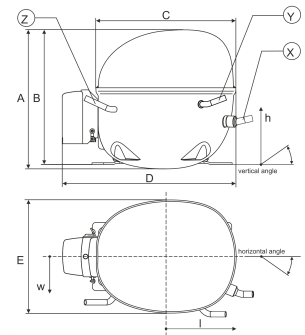
Oil type	32 cSt POE RL32DR	Winding resistance main	0.900 Ohm
Oil viscosity	32cSt	Winding resistance aux	4.17 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

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](#)



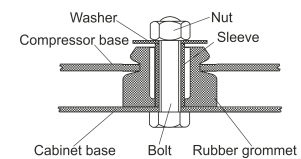
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in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

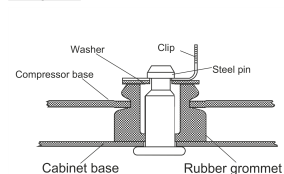


Dimensions in mm [in]

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

Model
NLE11MN

Configuration 1

Sales code:
105H5982

Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	95-127 V
Starting torque	HST
Approvals	UL, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	40.23 A
RLA (rated load amps / 1s/ U(N))	8.37 A
Cut in current (U(N))	40.23 A

Ambient/ machine room temperatures minimum /maximum

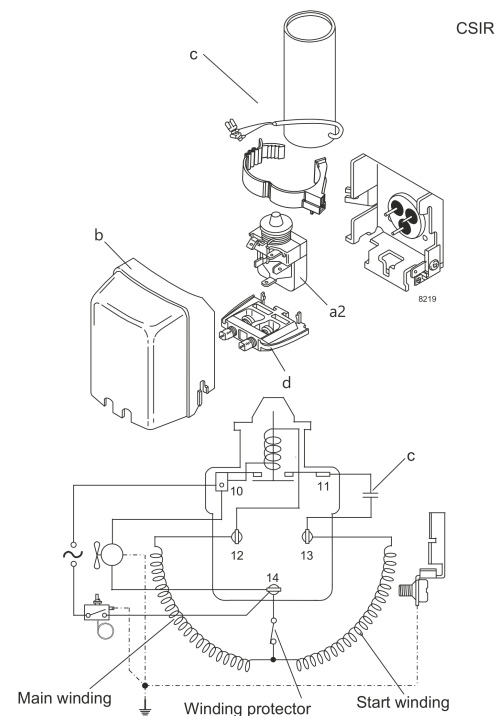
Ambient temperature range: 10 - 43°C / 50 - 109°F

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)

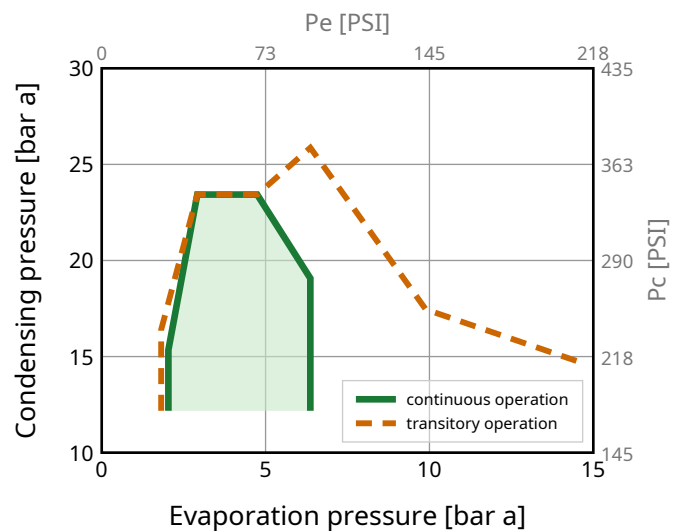
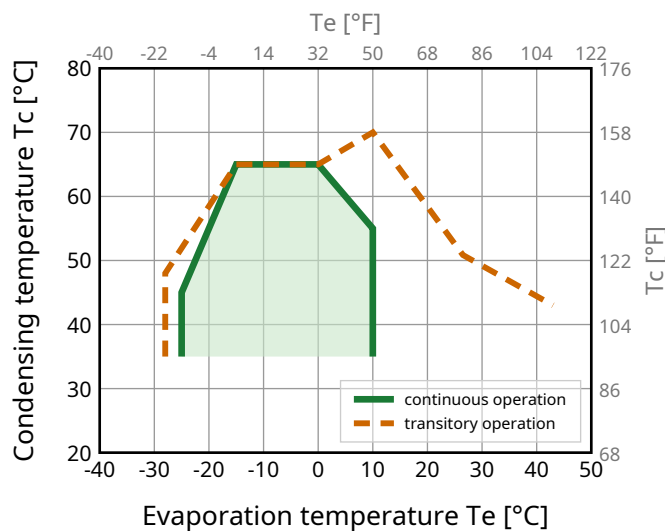
a2 relay 117U7020

c start capacitor (240µF, 15kOhm) 117U5034

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model

NLE11MN

Configuration 1

Sales code:

105H5982

Standard Conditions

R290, 115 V/60 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1202	4103	1034	2.04	6.97	589	7.15	13.77	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	960	3274	825	1.71	5.83	562	6.96	12.21	CECOMAF MBP
-10 14	45 113	20 68	45 113	1060	3616	911	2.04	6.97	519	6.77	13.04	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1126	3843	969	2.01	6.84	561	7.01	14.64	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1102	3759	948	2.12	7.24	519	6.77	12.65	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	718	2450	618	1.70	5.79	423	6.17	7.29	opt LBP

Performance Tables

R290, 115 V/60 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	594	2027	511	1.45	4.93	411	6.09	6.73
-20	-4	744	2538	640	1.66	5.67	447	6.31	8.46
-15	5	912	3112	784	1.89	6.44	484	6.54	10.42
-10	14	1102	3759	948	2.12	7.24	519	6.77	12.65
-5	23	1316	4491	1132	2.38	8.12	553	6.99	15.20
0	32	1559	5318	1340	2.67	9.10	584	7.21	18.12
5	41	1832	6250	1575	2.99	10.20	613	7.40	21.47
10	50	2139	7299	1840	3.36	11.45	637	7.58	25.30

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

-25	-13	498	1700	428	1.18	4.02	422	6.09	6.25
-20	-4	636	2171	547	1.36	4.63	469	6.37	8.01
-15	5	789	2692	679	1.53	5.22	516	6.66	9.98
-10	14	960	3274	825	1.71	5.83	562	6.96	12.21
-5	23	1151	3929	990	1.90	6.48	606	7.27	14.74
0	32	1367	4665	1176	2.11	7.20	648	7.57	17.63
5	41	1610	5495	1385	2.34	8.00	687	7.86	20.95
10	50	1884	6429	1620	2.61	8.90	722	8.13	24.76

Model
NLE11MN

Configuration 2

Sales code:
105H5982

Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	40.23 A
RLA (rated load amps / 1s/ U(N))	8.37 A
Cut in current (U(N))	40.23 A

Ambient/ machine room temperatures minimum /maximum

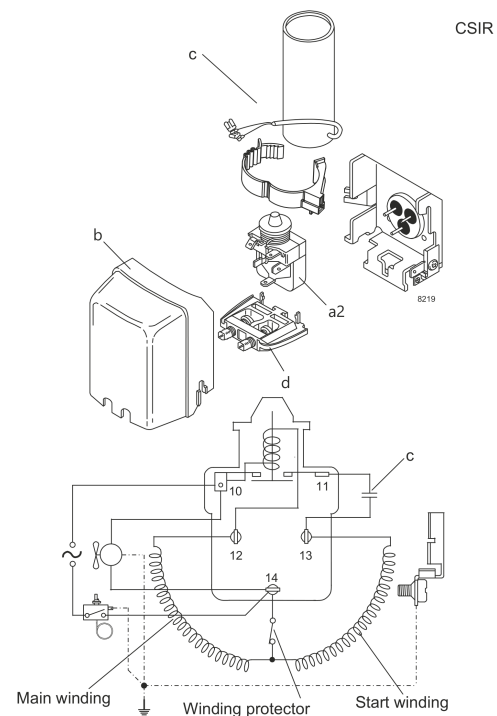
Ambient temperature range: 10 - 43°C / 50 - 109°F

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)

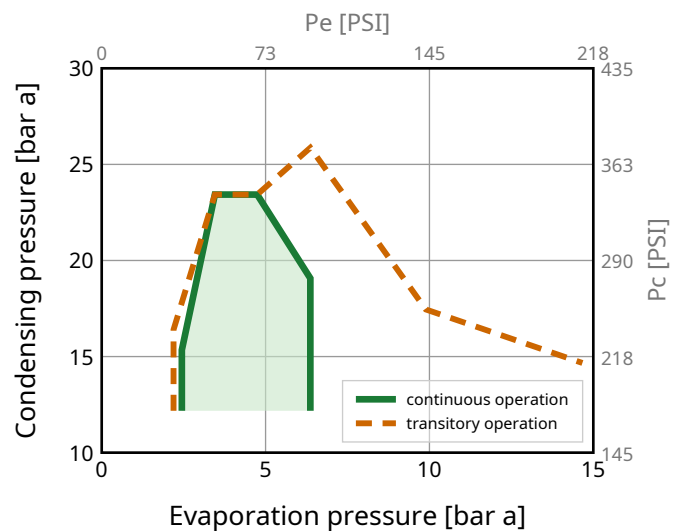
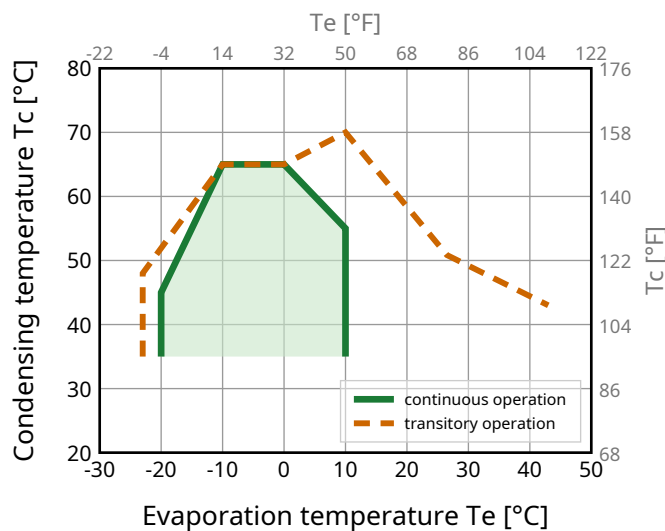
a2 relay 117U7020

c start capacitor (240µF, 15kOhm) 117U5034

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model
NLE11MN

Configuration 2

Sales code:
105H5982

Standard Conditions

R290, 115 V/60 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1202	4103	1034	2.04	6.97	589	7.15	13.77	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	960	3274	825	1.71	5.83	562	6.96	12.21	CECOMAF MBP
-10 14	45 113	20 68	45 113	1060	3616	911	2.04	6.97	519	6.77	13.04	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1126	3843	969	2.01	6.84	561	7.01	14.64	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1102	3759	948	2.12	7.24	519	6.77	12.65	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	718	2450	618	1.70	5.79	423	6.17	7.29	opt LBP

Performance Tables

R290, 115 V/60 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]
-20	-4	744	2538	640	1.66	5.67	447	6.31	8.46
-15	5	912	3112	784	1.89	6.44	484	6.54	10.42
-10	14	1102	3759	948	2.12	7.24	519	6.77	12.65
-5	23	1316	4491	1132	2.38	8.12	553	6.99	15.20
0	32	1559	5318	1340	2.67	9.10	584	7.21	18.12
5	41	1832	6250	1575	2.99	10.20	613	7.40	21.47
10	50	2139	7299	1840	3.36	11.45	637	7.58	25.30

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

-20	-4	636	2171	547	1.36	4.63	469	6.37	8.01
-15	5	789	2692	679	1.53	5.22	516	6.66	9.98
-10	14	960	3274	825	1.71	5.83	562	6.96	12.21
-5	23	1151	3929	990	1.90	6.48	606	7.27	14.74
0	32	1367	4665	1176	2.11	7.20	648	7.57	17.63
5	41	1610	5495	1385	2.34	8.00	687	7.86	20.95
10	50	1884	6429	1620	2.61	8.90	722	8.13	24.76