

Model

Designation	NLE11MN	115-127V/60Hz 1~	Sales code:	105H5982
-------------	----------------	-------------------------	-------------	-----------------

Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	11,15cm ³ / 0,68cu.in
Oil quantity	300cm ³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm ³ / 79,8fl.oz		
Weight	12,14kg / 26,8lbs		
Motor protection	1# internal		
Winding resistance main	0,8Ω (at 25°C)		
Winding resistance aux	3,25Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with NLE11MN

	Conf. 1	Conf. 2
Motorconfiguration	CSIR	CSIR
Power supply (nominal)	115V/60Hz	115V/60Hz
Number of phases	1	1
Voltage range	95-127V	95-135V
Approvals	UL, CCC	UL, CCC
Starting torque	HST	HST
Note	Electrical equipment is included and pre-assembled to compressor.	

Applications with NLE11MN

	Conf. 1	Conf. 2
Refrigerant	R290	R290
Application	MBP	MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Electrical data - Configurations with NLE11MN

	Conf. 1	Conf. 2
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	240μF	240μF
LRA (locked rotor amps / 4s)	40,23A	40,23A
RLA (rated load amps / 1s)	8,37A	8,37A
Cut in current	40,23A	40,23A
IP class	21	21

Model

Designation

NLE11MN

115-127V/60Hz 1~

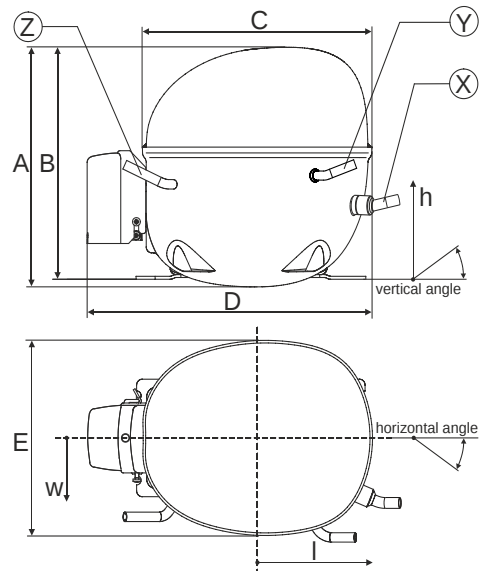
Sales code:

105H5982

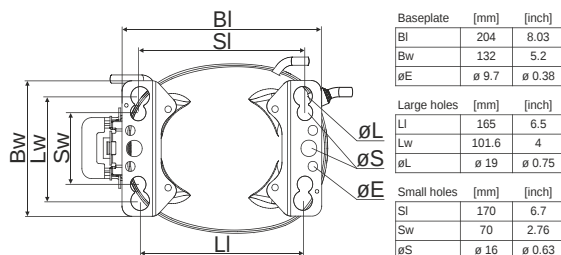
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

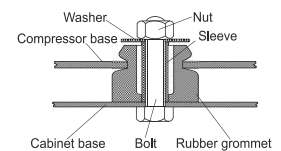
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	22°	0°	0°
Vertical angle ±2°	45°	35°	155°
Position l/h/w [mm]	128/79/61	88/95/85	-112/97/68
[in]	5/3,1/2,4	3,5/3,7/3,3	-4,4/3,8/2,7
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5



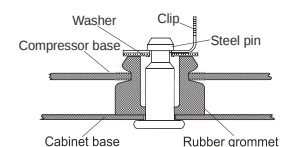
Compressor fixation



Bolt joint



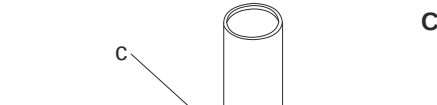
Snap-on



Mounting accessories

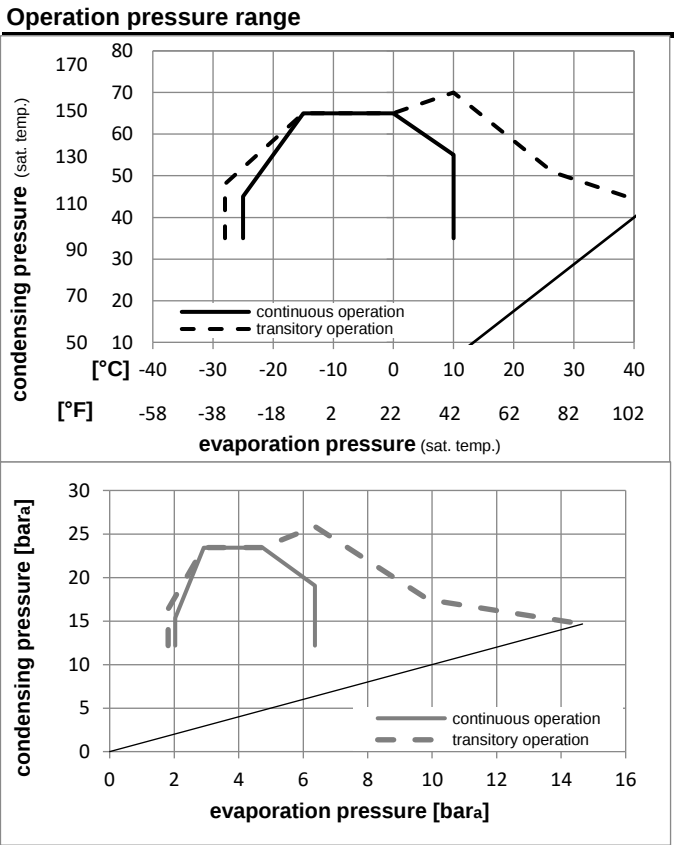
	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Model				
Designation	NLE11MN	115V/60Hz	Conf. 1	Sales code: 105H5982

Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	CSIR		
Power supply (nominal)	115V/60Hz 1~		
Refrigerant	R290		
Application	MBP		
Voltage range	95-127V		
Starting torque	HST		
Approvals	UL	SA3693	
	CCC		

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	n/a	fan 3m/s	n/a
38°C / 100°F	n/a	fan 3m/s	n/a
43°C / 110°F	n/a	fan 3m/s	n/a



Components (already pre-assembled)		
a2	relay	117U7020
c	start capacitor (240μF)	117U5023
b	plastic cover	103N2011
d	cord relief	103N1010

Model

Designation	NLE11MN	115V/60Hz	Conf. 1	Sales code:	105H5982
-------------	---------	-----------	---------	-------------	----------

Optimization + standard conditions

115V/60Hz 1~, CSIR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature)													
Condensing pressure (saturation temperature)													
Return gas temp.													
Liquid temp.													
Cooling capacity													
COP													
EER													
Power consumption													
Current consumption													
Ref. mass flow													
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m
[°C]	-6,66	54,4	35	46,1									
[°F]	20	130	95	115	1202,7	4107	1035,1	2,04	6,97	1,76	589,1	7,15	13,72
													ASHRAE MBP
[°C]	-10	55	32	55	959,7	3278	825,9	1,71	5,83	1,47	561,8	6,96	12,14
[°F]	14	131	89,6	131									cecomaf MBP
[°C]	-10	45	20	45	1058,4	3615	910,9	2,04	6,96	1,75	519,1	6,77	12,99
[°F]	14	113	68	113									EN12900 MBP
[°C]	-6,66	48,9	18,3	48,9	1124,6	3841	967,8	2,00	6,83	1,72	562,1	7,01	14,60
[°F]	20	120	65	120									ARI540 MBP
[°C]	-10	45	32	45	1101,8	3763	948,2	2,12	7,25	1,83	519,1	6,77	12,61
[°F]	14	113	89,6	113									opt
[°C]	-25	45	32	45	594,0	2029	511,2	1,45	4,94	1,24	410,8	6,09	6,70
[°F]	-13	113	89,6	113									opt

Performance tables

115V/60Hz 1~, CSIR, fan 3m/s, UL, CCC

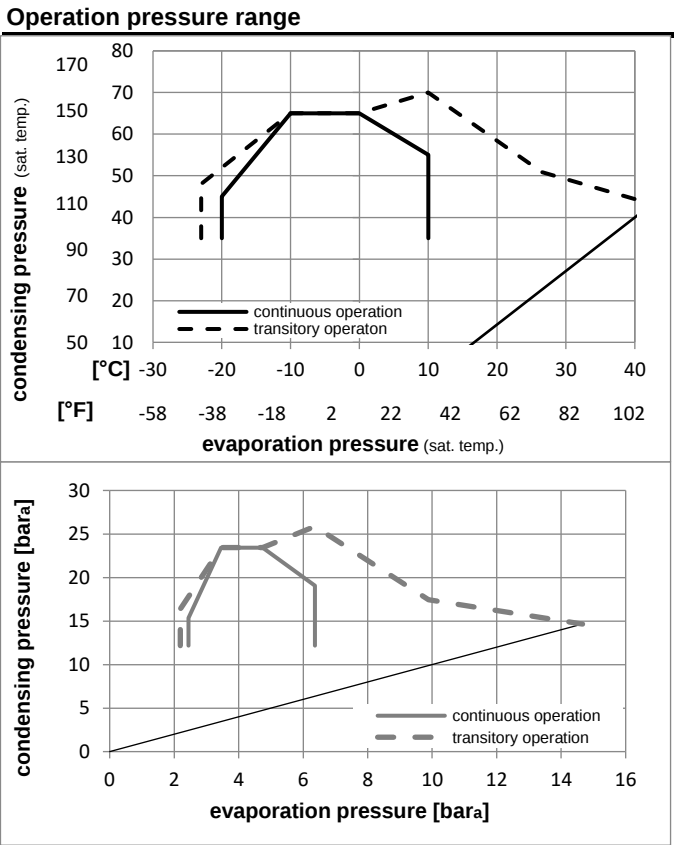
	pe	Cooling capacity				COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-25	-13	594,0	2029	511,2	1,45	4,94	1,24	410,8	6,09	6,70
cond. pressure	-23,3	-10	642,1	2193	552,6	1,52	5,18	1,31	422,9	6,17	7,25
pc= 45/113	-15	5	912,1	3115	784,9	1,89	6,44	1,62	483,7	6,54	10,38
return gas temp.	-9,4	15	1124,4	3840	967,7	2,15	7,34	1,85	523,0	6,79	12,87
RGT= 32/90	0	32	1558,6	5323	1341,3	2,67	9,11	2,29	584,5	7,21	18,08
liquid temp	4,4	40	1799,8	6147	1548,9	2,95	10,08	2,54	609,9	7,38	21,03
Tliq= 45/113	10	50	2139,1	7305	1840,9	3,36	11,46	2,89	637,3	7,58	25,28
[°C / °F]	-25	-13	498,1	1701	428,7	1,18	4,03	1,01	422,5	6,09	6,20
cond. pressure	-23,3	-10	542,7	1853	467,1	1,24	4,23	1,07	438,1	6,18	6,77
pc= 55/131	-15	5	789,0	2695	679,0	1,53	5,22	1,32	515,9	6,66	9,92
return gas temp	-9,4	15	979,9	3347	843,3	1,73	5,90	1,49	566,8	7,00	12,40
RGT= 32/90	0	32	1367,3	4670	1176,7	2,11	7,20	1,82	648,2	7,57	17,56
liquid temp	4,4	40	1582,1	5403	1361,5	2,32	7,91	1,99	683,0	7,83	20,49
Tliq= 55/131	10	50	1884,1	6435	1621,5	2,61	8,91	2,24	722,4	8,13	24,70

Model				
Designation	NLE11MN	115V/60Hz	Conf. 2	Sales code: 105H5982

Configuration			Electrical accessories / wiring diagram	
Motorconfiguration	CSIR			
Power supply (nominal)	115V/60Hz 1~			
Refrigerant	R290			
Application	MBP			
Voltage range	95-135V			
Starting torque	HST			
Approvals	UL	SA3693		
	CCC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	n/a	fan 3m/s	n/a
38°C / 100°F	n/a	fan 3m/s	n/a
43°C / 110°F	n/a	fan 3m/s	n/a



Components (already pre-assembled)		
a2	relay	117U7020
c	start capacitor (240μF)	117U5023
b	plastic cover	103N2011
d	cord relief	103N1010

Model

Designation	NLE11MN	115V/60Hz	Conf. 2	Sales code:	105H5982
-------------	---------	-----------	---------	-------------	----------

Optimization + standard conditions

115V/60Hz 1~, CSIR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature)													
Condensing pressure (saturation temperature)													
Return gas temp.													
Liquid temp.													
Cooling capacity													
COP													
EER													
Power consumption													
Current consumption													
Ref. mass flow													
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m
[°C]	-6,66	54,4	35	46,1									
[°F]	20	130	95	115	1202,7	4107	1035,1	2,04	6,97	1,76	589,1	7,15	13,72
													ASHRAE MBP
[°C]	-10	55	32	55	959,7	3278	825,9	1,71	5,83	1,47	561,8	6,96	12,14
[°F]	14	131	89,6	131									cecomaf MBP
[°C]	-10	45	20	45	1058,4	3615	910,9	2,04	6,96	1,75	519,1	6,77	12,99
[°F]	14	113	68	113									EN12900 MBP
[°C]	-6,66	48,9	18,3	48,9	1124,6	3841	967,8	2,00	6,83	1,72	562,1	7,01	14,60
[°F]	20	120	65	120									ARI540 MBP
[°C]	-10	45	32	45	1101,8	3763	948,2	2,12	7,25	1,83	519,1	6,77	12,61
[°F]	14	113	89,6	113									opt
[°C]	-25	45	32	45	594,0	2029	511,2	1,45	4,94	1,24	410,8	6,09	6,70
[°F]	-13	113	89,6	113									opt

Performance tables

115V/60Hz 1~, CSIR, fan 3m/s, UL, CCC

	pe	Cooling capacity				COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-20	-4	743,8	2540	640,1	1,66	5,68	1,43	447,3	6,31	8,42
cond. pressure	-15	5	912,1	3115	784,9	1,89	6,44	1,62	483,7	6,54	10,38
pc= 45/113	-9,4	15	1124,4	3840	967,7	2,15	7,34	1,85	523,0	6,79	12,87
return gas temp.	-6,7	20	1241,9	4241	1068,8	2,29	7,83	1,97	541,9	6,92	14,27
RGT= 32/90	0	32	1558,6	5323	1341,3	2,67	9,11	2,29	584,5	7,21	18,08
liquid temp	4,4	40	1799,8	6147	1548,9	2,95	10,08	2,54	609,9	7,38	21,03
Tliq= 45/113	10	50	2139,1	7305	1840,9	3,36	11,46	2,89	637,3	7,58	25,28
[°C / °F]	-20	-4	636,2	2173	547,5	1,36	4,63	1,17	469,2	6,37	7,96
cond. pressure	-15	5	789,0	2695	679,0	1,53	5,22	1,32	515,9	6,66	9,92
pc= 55/131	-9,4	15	979,9	3347	843,3	1,73	5,90	1,49	566,8	7,00	12,40
return gas temp	-6,7	20	1085,0	3705	933,8	1,83	6,26	1,58	591,6	7,17	13,79
RGT= 32/90	0	32	1367,3	4670	1176,7	2,11	7,20	1,82	648,2	7,57	17,56
liquid temp	4,4	40	1582,1	5403	1361,5	2,32	7,91	1,99	683,0	7,83	20,49
Tliq= 55/131	10	50	1884,1	6435	1621,5	2,61	8,91	2,24	722,4	8,13	24,70