

Model

NLE15LNDX

Sales code:

105H7500

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	300g / 10.58oz
Weight	11.80 kg / 26.01lbs
Displacement	14.60 cm3 / 0.89cu.in
Compressors on pallet	80



General – Configurations With NLE15LNDX

-	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	LBP
Hot gas defrost	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

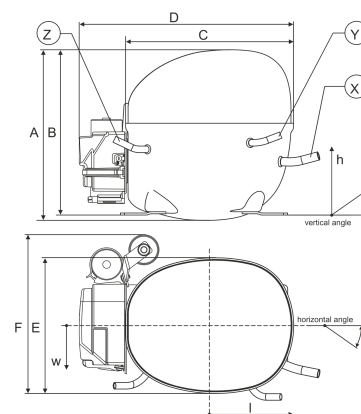
Oil type	POE	Motor protection	external
Oil viscosity	32cSt	Max. winding temp.	125 °C
Oil quantity	298 / 10.08fl.oz	Max. discharge temp.	130°C / 266°F
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz		

Compressor Dimensions

Housing

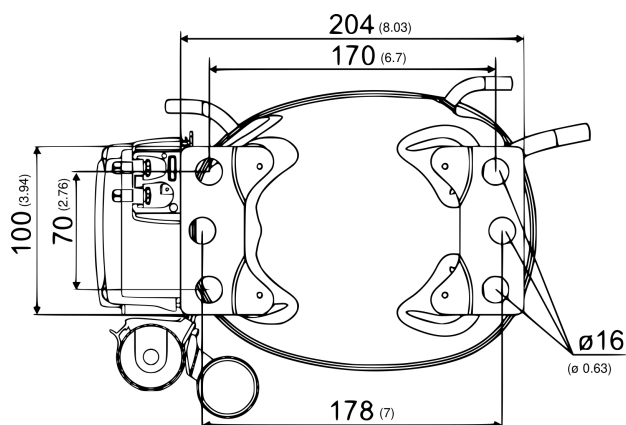
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	205mm / 8.07in
D Length w. cover	262mm / 10.31in
E Width	166mm / 6.54in

[Find 3D Model here](#)

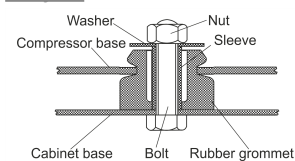


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74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

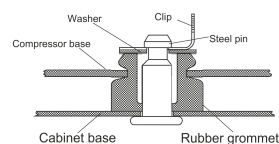
Mounting Accessories



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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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP
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))	16.8 A
RLA (rated load amps / 1s/ U(N))	2.3 A
Cut in current (U(N))	16.8 A

Ambient/ machine room temperatures minimum /maximum

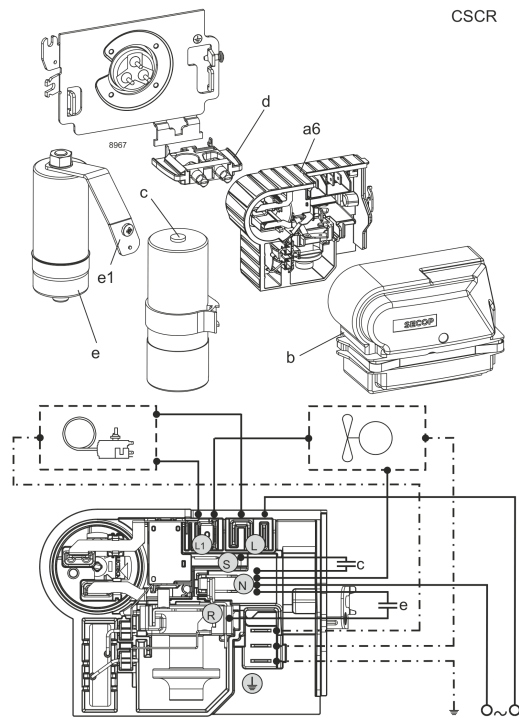
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

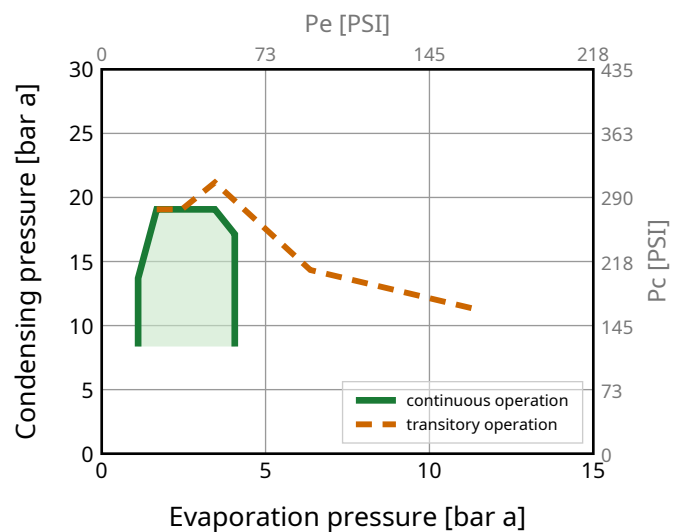
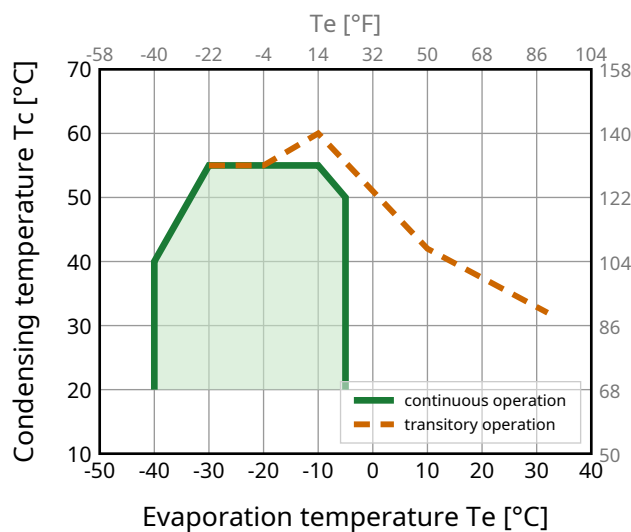
b cover terminal board + clamp 117U1038

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	779	2658	670	1.72	5.88	452	2.16	7.91	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	585	1997	503	1.34	4.59	436	2.09	7.34	CECOMAF LBP
-35 -31	40 104	20 68	40 104	438	1494	377	1.38	4.69	318	1.61	5.03	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	624	2128	536	1.42	4.84	439	2.10	8.66	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	811	2768	698	1.95	6.64	417	2.00	8.24	AHAM LBP
-25 -13	45 113	32 89.6	45 113	669	2282	575	1.62	5.51	414	1.99	7.58	opt LBP

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]
-40	-40	323	1102	278	1.14	3.90	282	1.50	3.63
-35	-31	422	1441	363	1.30	4.44	325	1.64	4.76
-30	-22	537	1832	462	1.46	4.97	369	1.80	6.07
-25	-13	669	2282	575	1.62	5.51	414	1.99	7.58
-20	-4	820	2799	705	1.78	6.08	460	2.20	9.33
-15	5	993	3387	854	1.96	6.69	506	2.41	11.34
-10	14	1188	4055	1022	2.15	7.33	553	2.63	13.65
-5	23	1410	4810	1212	2.35	8.03	599	2.84	16.28

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

-40	-40	266	909	229	0.92	3.15	289	1.52	3.31
-35	-31	360	1229	310	1.07	3.67	335	1.68	4.49
-30	-22	466	1589	401	1.21	4.14	384	1.87	5.82
-25	-13	585	1997	503	1.34	4.59	436	2.09	7.34
-20	-4	721	2460	620	1.47	5.03	489	2.33	9.07
-15	5	874	2983	752	1.60	5.48	545	2.58	11.06
-10	14	1048	3575	901	1.74	5.94	602	2.85	13.32
-5	23	1243	4241	1069	1.89	6.43	660	3.11	15.91