Model
NLE15LNDX

Sales code:
105H7510

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	**64**

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

- Starter kit(relay), cover and cord relief are included and pre-assembled.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

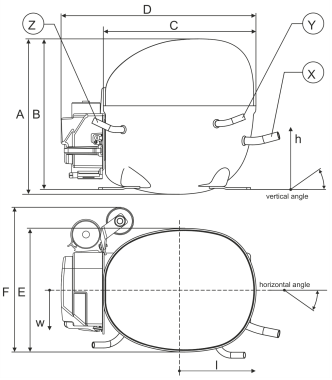
Oil type	**POE**	Winding resistance main	**7.1 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**12.4 Ohm**
Oil quantity	**298 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

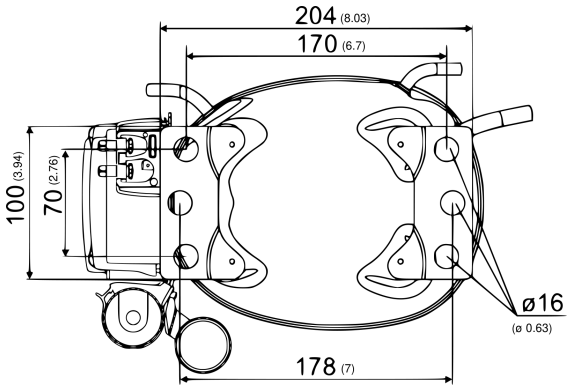
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**262mm / 10.31in**
E Width	**166mm / 6.54in**

Find 3D Model here



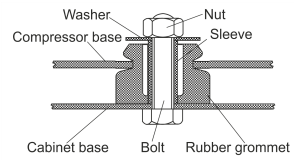
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74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

Mounting Accessories

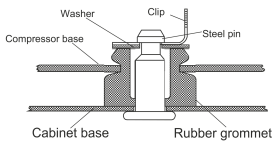


Dimensions in mm [in]

Bolt joint



Snap-on



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

Model
NLE15LNDX Configuration 1

Sales code:
105H7510

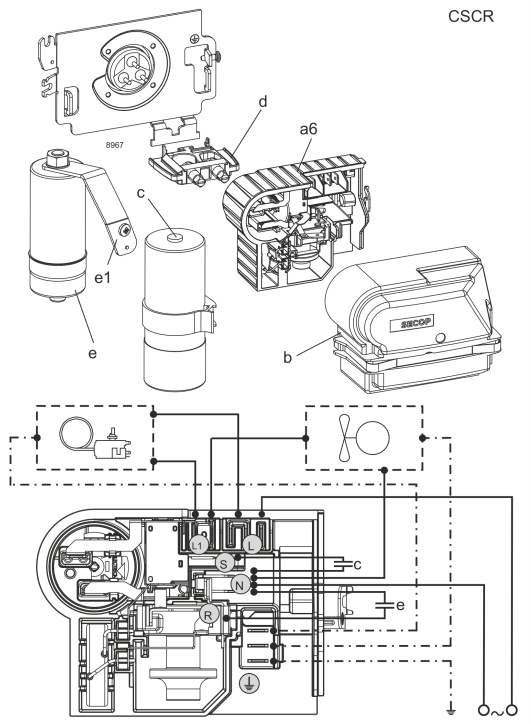
Configuration

Motor configuration	**CSCR**
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

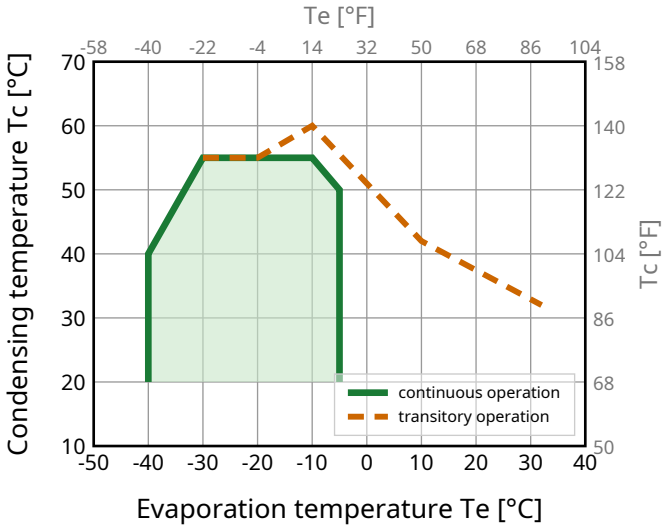
Electrical Accessories / Wiring Diagram

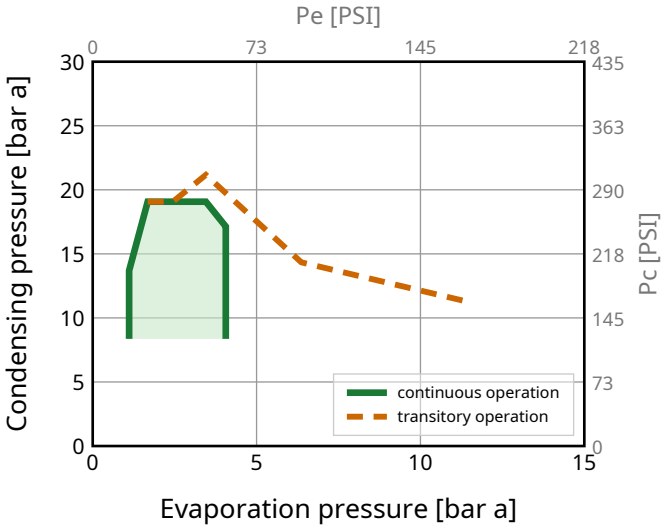


View full size

Components (Starter kit + cover + cord relief: pre-assembled)
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





Model Sales code:

NLE15LNDX Configuration 1 **105H7510**

Standard Conditions

R290, 220 V/50 Hz, CSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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**
-35 -31	45 113	32 89.6	45 113	**422**	1441	363	**1.30**	4.44	325	1.64	4.76	**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	ṁ
[°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