Model
NLE13LNDX

Sales code:
105H7311

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**11.80 kg / 26.01lbs**
Displacement	**12.60 cm3 / 0.77cu.in**
Compressors on pallet	**64**

General – Configurations With NLE13LNDX

–	**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
Long interval pull down	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

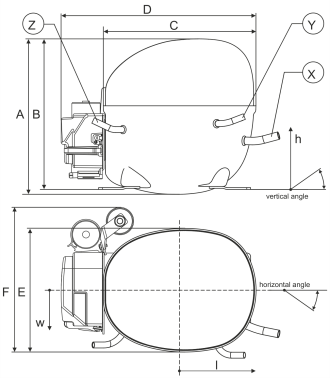
Oil type	**POE**	Winding resistance main	**8.67 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**15.1 Ohm**
Oil quantity	**298 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

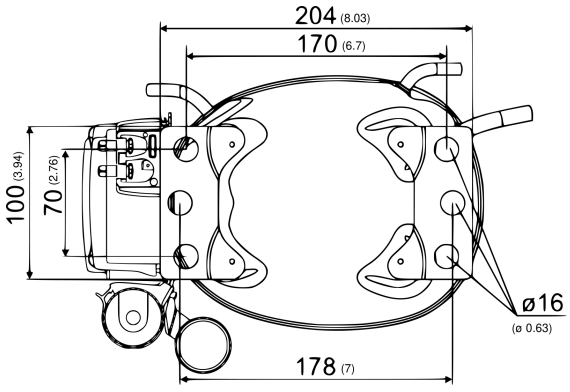
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**262mm / 10.31in**
E Width	**166mm / 6.54in**

Find 3D Model here



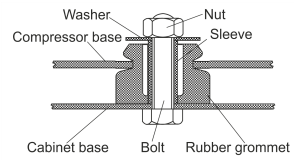
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74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

Mounting Accessories

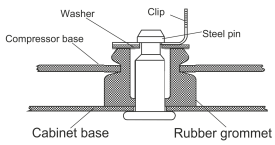


Dimensions in mm [in]

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
NLE13LNDX Configuration 1

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105H7311

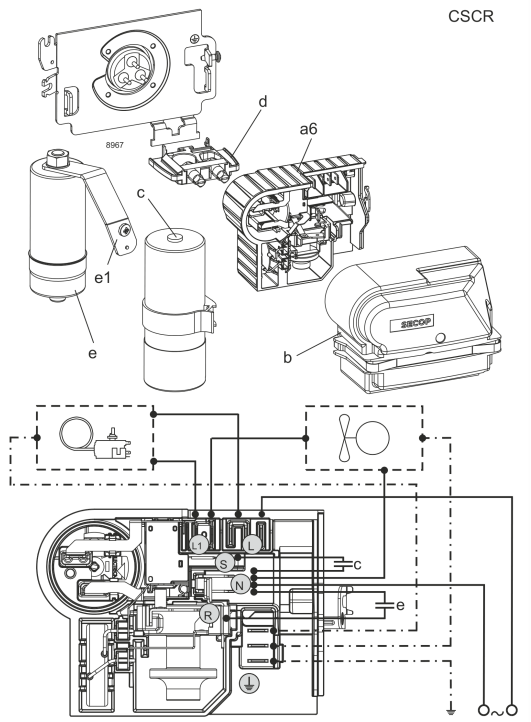
Configuration

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))	**15.1 A**
RLA (rated load amps / 1s/ U(N))	**1.95 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



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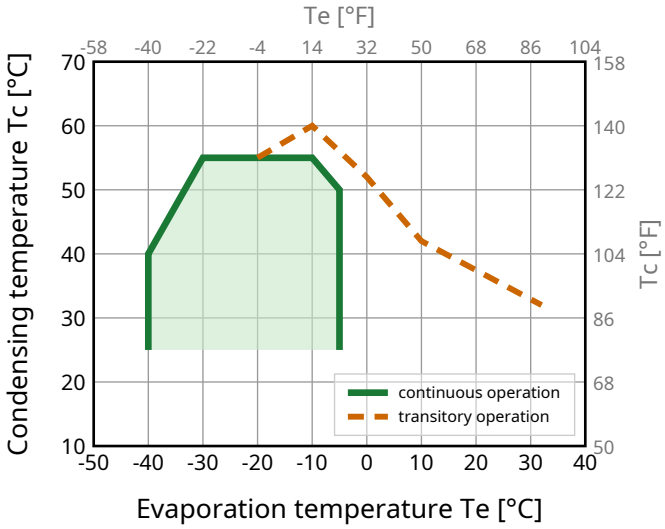
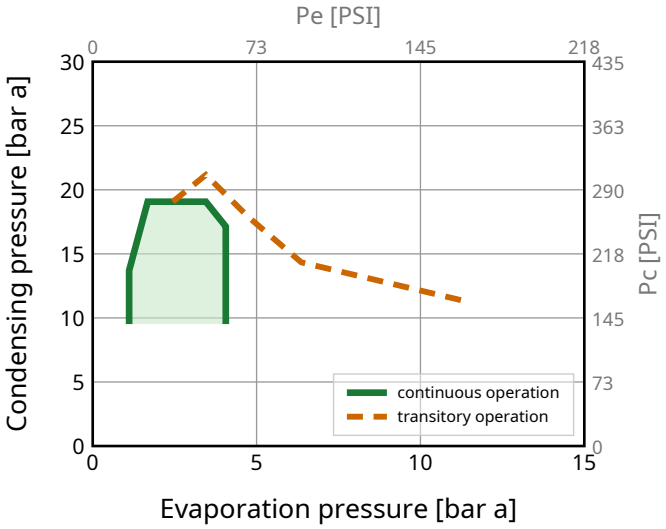
Components (Starter kit + cover + cord relief: pre-assembled)
a6 NL starter kit 117U8200
c start capacitor (80µF) 117U5353
e run cap (10µF, 6.3mm,c.length 280mm) 117-7166
b cover terminal board + clamp 117U1038
e1 retaining clamp 117-0314
screw M4x8mm 117-0301
d cord relief 103N1007

Operation Pressure Range





Model
NLE13LNDX Configuration 1

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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	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	**645**	2202	555	**1.69**	5.77	382	2.18	6.55	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**483**	1648	415	**1.31**	4.48	368	2.13	6.05	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**359**	1226	309	**1.36**	4.64	264	1.75	4.12	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**519**	1771	446	**1.41**	4.82	367	2.13	7.21	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**679**	2318	584	**1.97**	6.74	344	2.04	6.90	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**345**	1179	297	**1.27**	4.34	271	1.77	3.89	**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	**262**	896	226	**1.11**	3.78	237	1.64	2.95
-35	-31	**345**	1179	297	**1.27**	4.34	271	1.77	3.89
-30	-22	**443**	1512	381	**1.44**	4.92	307	1.91	5.01
-25	-13	**557**	1900	479	**1.62**	5.52	344	2.04	6.31
-20	-4	**688**	2348	592	**1.80**	6.16	382	2.18	7.83
-15	5	**839**	2861	721	**2.01**	6.84	418	2.31	9.58
-10	14	**1010**	3445	868	**2.23**	7.60	454	2.45	11.59
-5	23	**1202**	4103	1034	**2.47**	8.42	487	2.59	13.89

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

-40	-40	**219**	746	188	**0.90**	3.06	244	1.67	2.72
-35	-31	**294**	1001	252	**1.04**	3.53	283	1.82	3.65
-30	-22	**381**	1300	328	**1.17**	4.00	325	1.97	4.76
-25	-13	**483**	1648	415	**1.31**	4.48	368	2.13	6.05
-20	-4	**601**	2050	517	**1.46**	4.97	412	2.29	7.56
-15	5	**736**	2510	633	**1.61**	5.49	457	2.46	9.30
-10	14	**889**	3034	765	**1.77**	6.06	501	2.64	11.31
-5	23	**1063**	3627	914	**1.96**	6.67	544	2.82	13.61