Model
NLE14LNDX

Sales code:
105H7412

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**11.80 kg / 26.01lbs**
Displacement	**13.50 cm3 / 0.82cu.in**
Compressors on pallet	**64**

General – Configurations With NLE14LNDX

–	**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

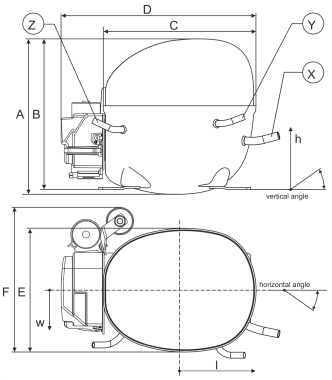
Oil type	**POE**	Winding resistance main	**7.5 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**12.9 Ohm**
Oil quantity	**298 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

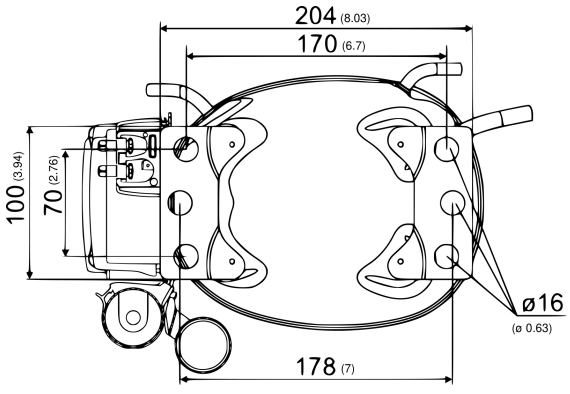
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**262mm / 10.31in**
E Width	**166mm / 6.54in**

Find 3D Model here



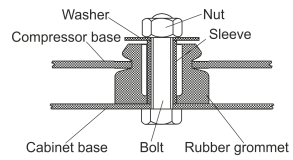
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74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

Mounting Accessories

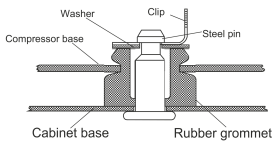


Dimensions in mm [in]

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
NLE14LNDX Configuration 1

Sales code:
105H7412

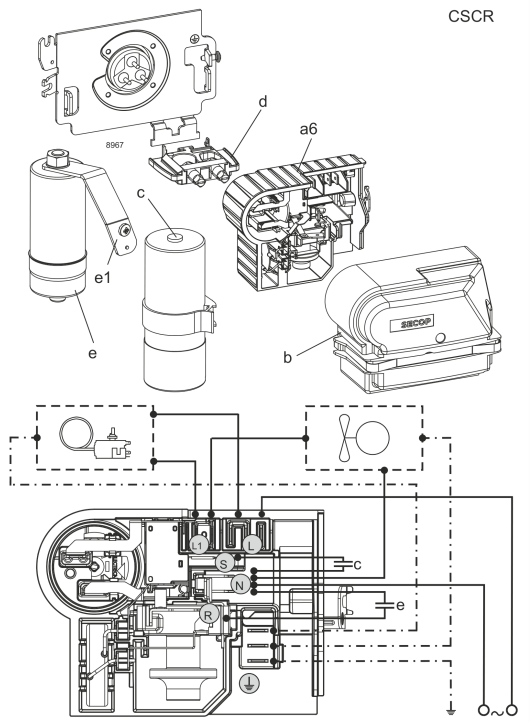
Configuration

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))	**16.7 A**
RLA (rated load amps / 1s/ U(N))	**2.2 A**
Cut in current (U(N))	**16.7 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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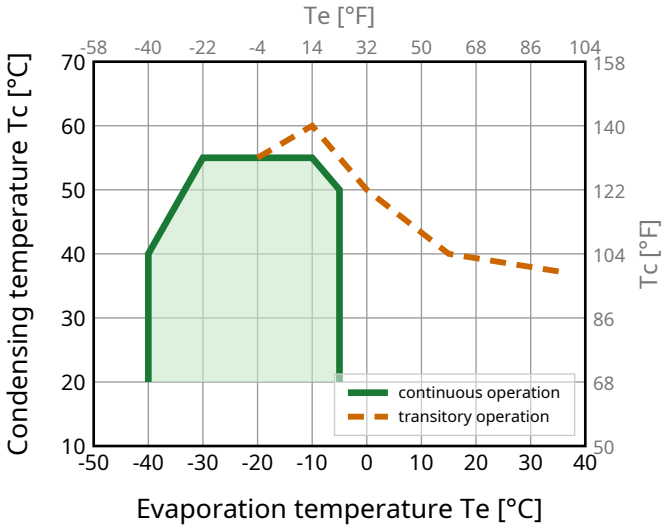
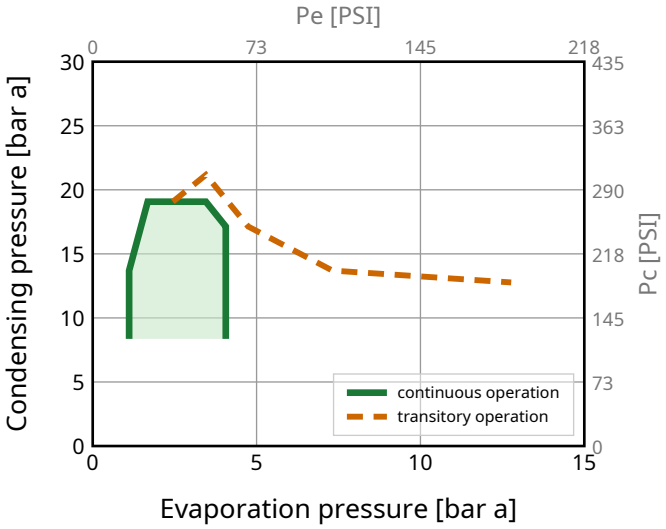
Components (Starter kit + cover + cord relief: pre-assembled)
a6 NL starter kit 117U8201
c start capacitor (80µF) 117U5353
e run cap (10µF, 6.3mm,c.length 280mm) 117-7166
b cover terminal board + clamp 117U1038
e1 retaining clamp 117-0314
screw M4x8mm 117-0301
d cord relief 103N1007

Operation Pressure Range





Model
NLE14LNDX 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	**717**	2447	617	**1.69**	5.75	425	2.03	7.29	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**537**	1834	462	**1.31**	4.47	411	1.97	6.74	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**401**	1369	345	**1.35**	4.61	297	1.51	4.61	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**576**	1966	496	**1.41**	4.80	410	1.96	8.00	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**754**	2572	648	**1.96**	6.68	385	1.85	7.66	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**386**	1316	332	**1.26**	4.31	305	1.54	4.34	**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	**293**	1000	252	**1.10**	3.74	267	1.41	3.30
-35	-31	**386**	1316	332	**1.26**	4.31	305	1.54	4.34
-30	-22	**494**	1684	424	**1.43**	4.88	345	1.69	5.58
-25	-13	**619**	2111	532	**1.61**	5.48	385	1.85	7.01
-20	-4	**763**	2602	656	**1.79**	6.12	425	2.03	8.68
-15	5	**928**	3165	798	**2.00**	6.82	464	2.21	10.60
-10	14	**1115**	3804	959	**2.23**	7.60	501	2.38	12.80
-5	23	**1326**	4525	1141	**2.48**	8.45	535	2.54	15.32

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

-40	-40	**242**	825	208	**0.87**	2.97	278	1.44	3.00
-35	-31	**327**	1116	281	**1.02**	3.49	319	1.59	4.07
-30	-22	**425**	1450	366	**1.17**	3.99	364	1.77	5.31
-25	-13	**537**	1834	462	**1.31**	4.47	411	1.97	6.74
-20	-4	**666**	2272	573	**1.45**	4.95	459	2.19	8.38
-15	5	**812**	2772	699	**1.60**	5.46	508	2.41	10.28
-10	14	**979**	3339	842	**1.76**	6.01	556	2.63	12.45
-5	23	**1166**	3979	1003	**1.93**	6.59	604	2.85	14.93