

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

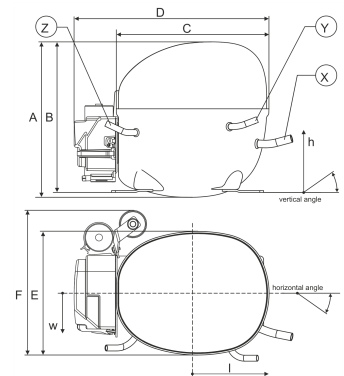
Oil type	POE	Winding resistance main	7.5 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.9 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

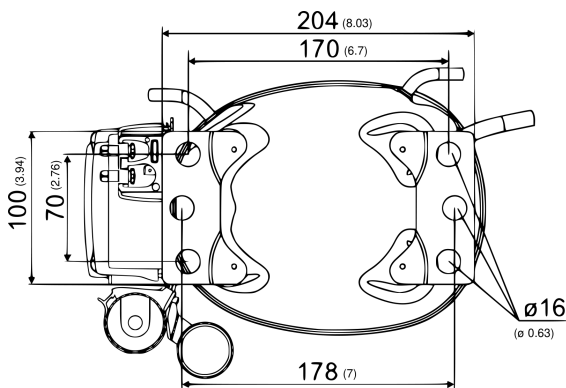
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	205mm / 8.07in
D Length w. cover	262mm / 10.31in
E Width	166mm / 6.54in

[Find 3D Model here](#)

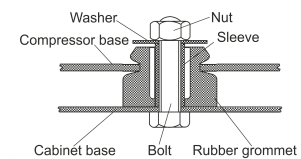


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74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

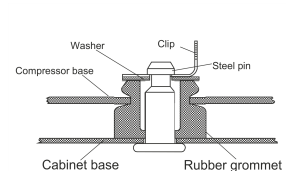
Mounting Accessories



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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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

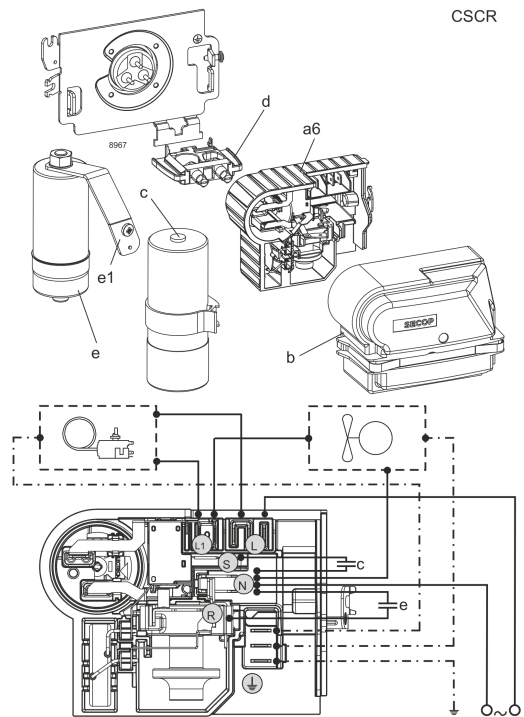
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[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

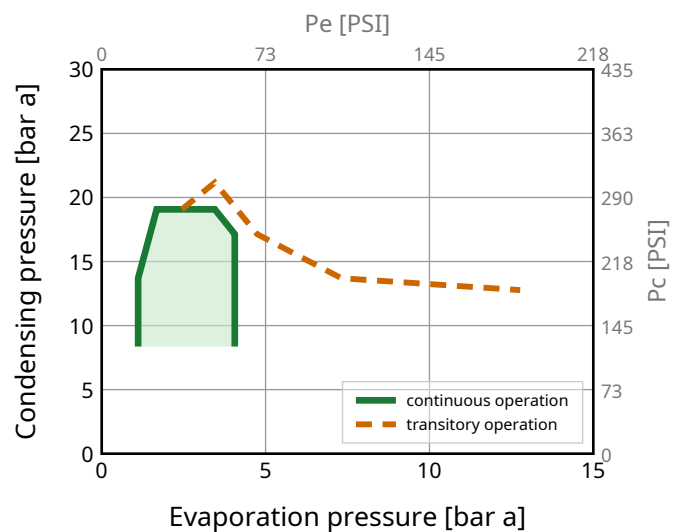
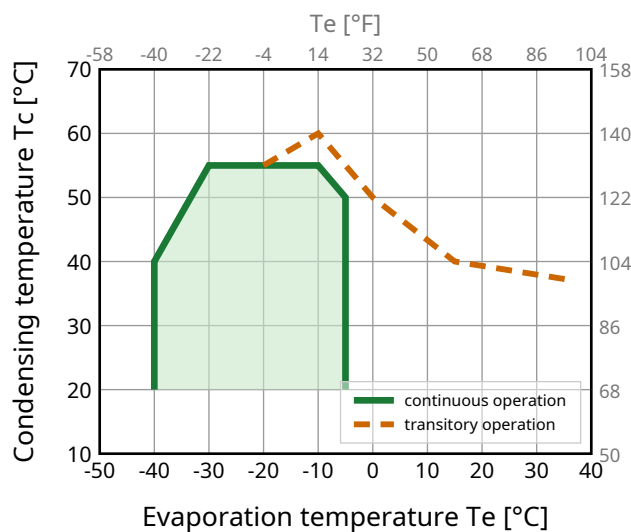
b cover terminal board + clamp 117U1038

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	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	m
[°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