

Model  
NLE14LNDX

Sales code:  
105H7402

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      | 80                    |



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

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

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### Compressor Design

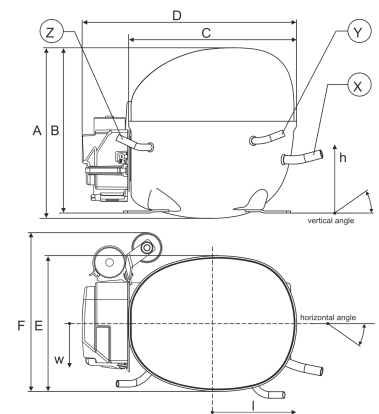
|                       |                                          |                      |                      |
|-----------------------|------------------------------------------|----------------------|----------------------|
| Oil type              | <b>POE</b>                               | Motor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

### Compressor Dimensions

#### Housing

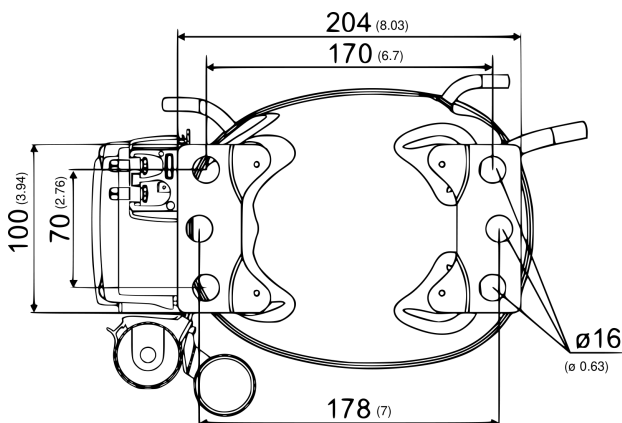
|                   |                        |
|-------------------|------------------------|
| A Height          | <b>209mm / 8.23in</b>  |
| B Height          | <b>203mm / 7.99in</b>  |
| C Length shell    | <b>205mm / 8.07in</b>  |
| D Length w. cover | <b>262mm / 10.31in</b> |
| E Width         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

[Find 3D Model here](#)

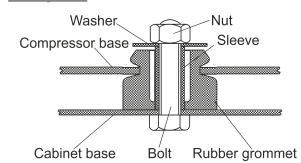


| Connectors            | Suction X                    | Discharge Y                   | Process Z                      |
|-----------------------|------------------------------|-------------------------------|--------------------------------|
| Diameter [mm]         | øi 8.11–8.29 / 0.32–0.33in   | 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

|                                    |                           |
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| Motor configuration                | <b>CSCR</b>               |
| Power supply (nominal)             | <b>220-240 V/50 Hz 1~</b> |
| Refrigerant                        | <b>R290</b>               |
| Application                        | <b>LBP</b>                |
| Voltage range                      | <b>198-254 V</b>          |
| Starting torque                    | <b>HST</b>                |
| Approvals                          | <b>VDE</b>                |
| Starting device type               | <b>relay</b>              |
| Run capacitor                      | <b>10 µF</b>              |
| Start capacitor                    | <b>80 µF</b>              |
| LRA (locked rotor amps / 4s/ U(N)) | <b>16.7 A</b>             |
| RLA (rated load amps / 1s/ U(N))   | <b>2.2 A</b>              |
| Cut in current (U(N))              | <b>16.7 A</b>             |

### Ambient/ machine room temperatures minimum /maximum

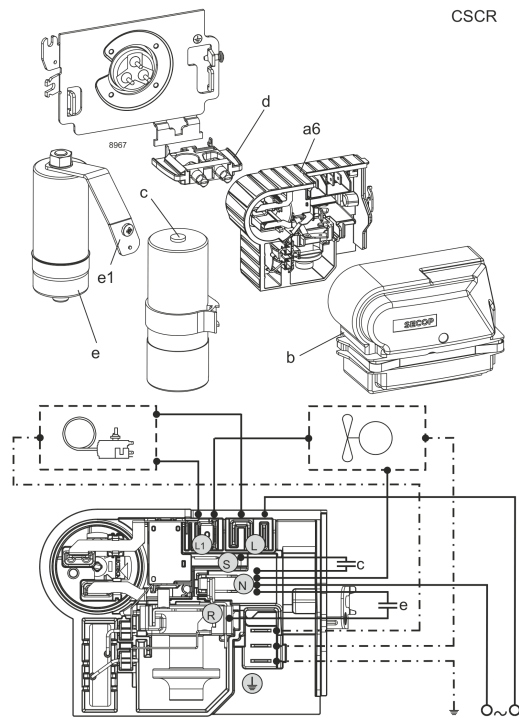
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

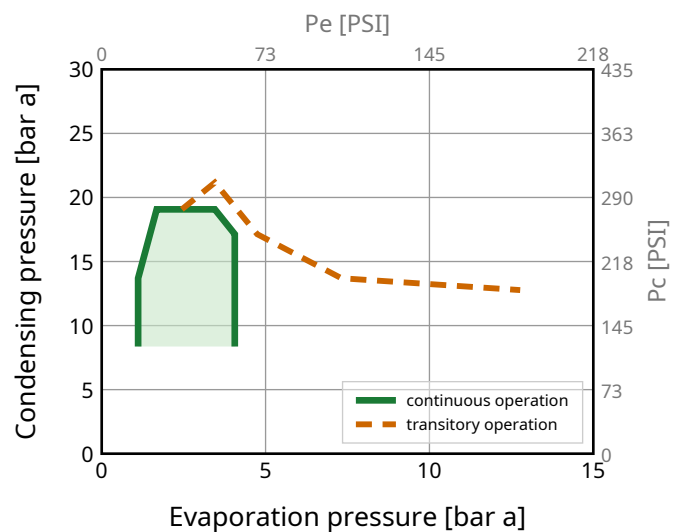
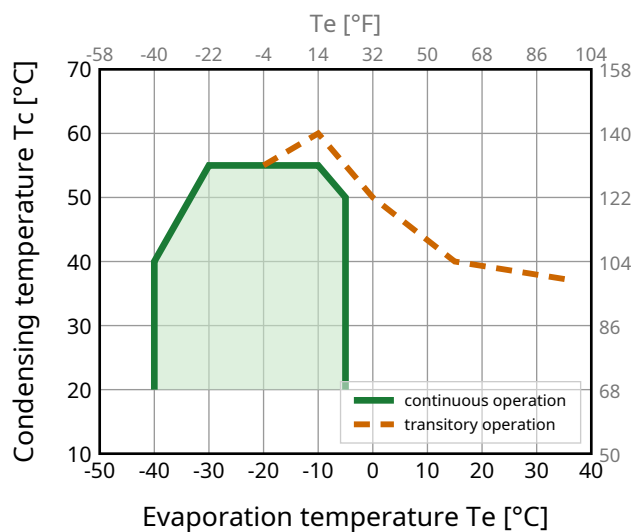
**b** cover terminal board + clamp 117U1038

**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]<br>[°F] | [°C]<br>[°F]  | [°C]<br>[°F] | [°C]<br>[°F]  | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |             |
| -23.3<br>-10 | 54.4<br>129.9 | 32.2<br>90   | 32.2<br>90    | 717              | 2447    | 617      | 1.69  | 5.75     | 425 | 2.03 | 7.29   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131     | 537              | 1834    | 462      | 1.31  | 4.47     | 411 | 1.97 | 6.74   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104     | 401              | 1369    | 345      | 1.35  | 4.61     | 297 | 1.51 | 4.61   | EN12900 LBP |
| -23.3<br>-10 | 48.8<br>119.8 | 4.4<br>39.9  | 48.8<br>119.8 | 576              | 1966    | 496      | 1.41  | 4.80     | 410 | 1.96 | 8.00   | ARI540 LBP  |
| -23.3<br>-10 | 40.6<br>105.1 | 32.2<br>90   | 32.2<br>90    | 754              | 2572    | 648      | 1.96  | 6.68     | 385 | 1.85 | 7.66   | AHAM LBP    |
| -25<br>-13   | 45<br>113     | 32<br>89.6   | 45<br>113     | 619              | 2111    | 532      | 1.61  | 5.48     | 385 | 1.85 | 7.01   | 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 |