

Model

NLE15LNDX

Sales code:

105H7500

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      | 80                    |



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

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

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### Compressor Design

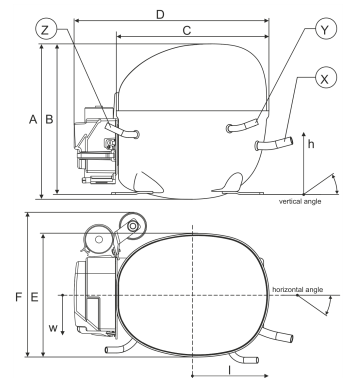
|                       |                                    |                         |               |
|-----------------------|------------------------------------|-------------------------|---------------|
| Oil type              | POE                                | Winding resistance main | 7.1 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 cm <sup>3</sup> / 79.80fl.oz | Max. discharge temp.    | 130°C / 266°F |
| Motor protection      | external                           |                         |               |

### Compressor Dimensions

#### Housing

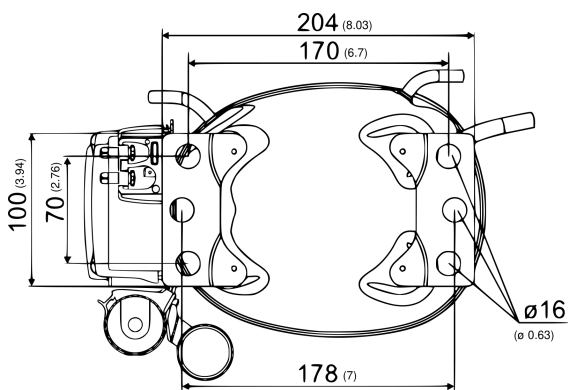
|                   |                 |
|-------------------|-----------------|
| A Height          | 209mm / 8.23in  |
| B Height          | 203mm / 7.99in  |
| C Length shell    | 205mm / 8.07in  |
| D Length w. cover | 262mm / 10.31in |
| E Width           | 166mm / 6.54in  |

[Find 3D Model here](#)

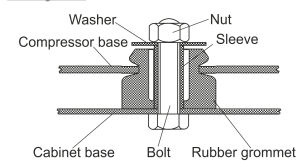


| Connectors            | Suction X                    | Discharge Y                   | Process Z                      |
|-----------------------|------------------------------|-------------------------------|--------------------------------|
| Diameter [mm]         | øi 8.11–8.29 / 0.32–0.33in   |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

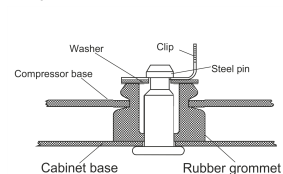
### Mounting Accessories



#### 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 $\mu$ F         |
| Start capacitor                    | 80 $\mu$ F         |
| 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

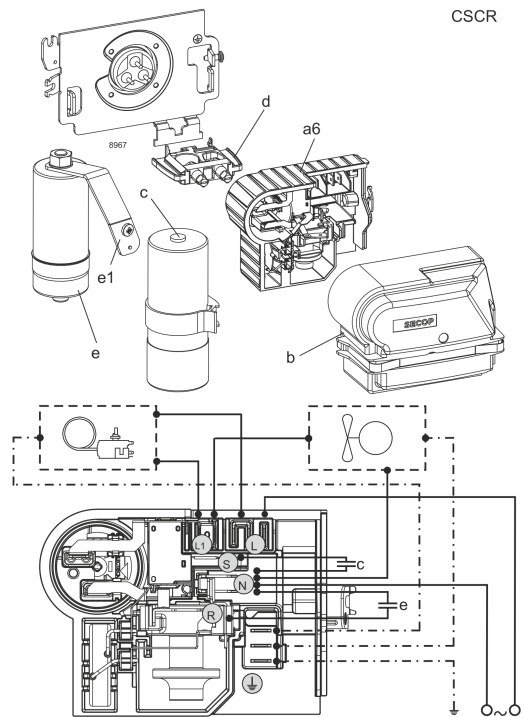
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a6 NL starter kit 117U8201

c start capacitor (80 $\mu$ F) 117U5353

e run cap (10 $\mu$ F, 6.3mm,c.length 280mm) 117-7166

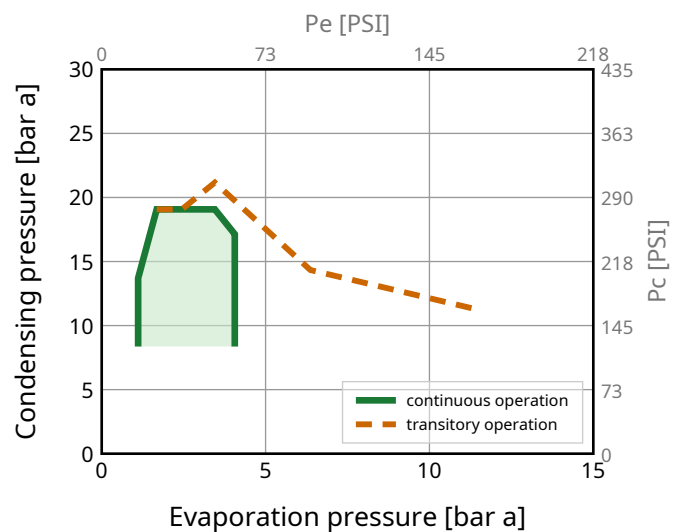
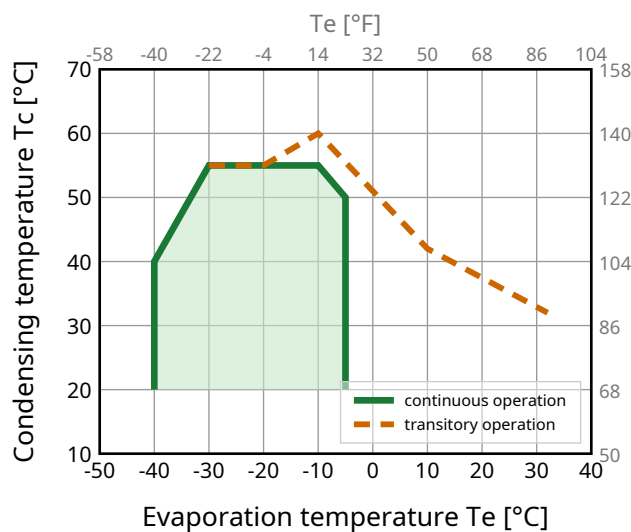
b cover terminal board + clamp 117U1038

e1 retaining clamp 117-0314

screw M4x8mm 117-0301

d cord relief 103N1007

Operation Pressure Range



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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    | 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    | 779              | 2658    | 670      | 1.72  | 5.88     | 452 | 2.16 | 7.91   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131     | 585              | 1997    | 503      | 1.34  | 4.59     | 436 | 2.09 | 7.34   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104     | 438              | 1494    | 377      | 1.38  | 4.69     | 318 | 1.61 | 5.03   | EN12900 LBP |
| -23.3<br>-10 | 48.8<br>119.8 | 4.4<br>39.9  | 48.8<br>119.8 | 624              | 2128    | 536      | 1.42  | 4.84     | 439 | 2.10 | 8.66   | ARI540 LBP  |
| -23.3<br>-10 | 40.6<br>105.1 | 32.2<br>90   | 32.2<br>90    | 811              | 2768    | 698      | 1.95  | 6.64     | 417 | 2.00 | 8.24   | AHAM LBP    |
| -35<br>-31   | 45<br>113     | 32<br>89.6   | 45<br>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    | m      |
|------|------|------------------|---------|----------|-------|----------|-----|------|--------|
| [°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 |