

Model  
NLE10CN

Sales code:  
105H6195

Compressor Data

|                            |                       |
|----------------------------|-----------------------|
| Refrigerant(s)             | R290                  |
| Refr. charge - tech. limit | 400g / 14.11oz        |
| Weight                     | 10.90 kg / 24.03lbs   |
| Displacement               | 10.09 cm3 / 0.62cu.in |
| Compressors on pallet      | 80                    |



General - Configurations With NLE10CN

|                         |             |
|-------------------------|-------------|
| -                       | Conf. 1     |
| Motor configuration     | CSIR        |
| Power supply (nominal)  | 115 V/60 Hz |
| Number of phases        | 1           |
| Voltage range           | 103-127 V   |
| Approvals               | UL          |
| Starting torque         | HST         |
| Refrigerant             | R290        |
| Application             | LBP+MBP     |
| Hot gas defrost         | OK          |
| Long interval pull down | OK          |

Application Notes

- Electrical equipment is included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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### Compressor Design

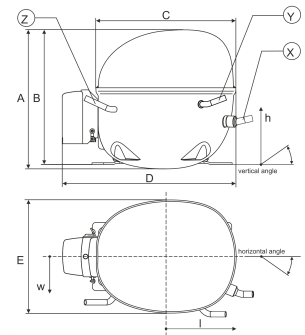
|                       |                                    |                         |               |
|-----------------------|------------------------------------|-------------------------|---------------|
| Oil type              | 32 cSt POE RL32DR                  | Winding resistance main | 1.600 Ohm     |
| Oil viscosity         | 32cSt                              | Winding resistance aux  | 4.40 Ohm      |
| Oil quantity          | 268 / 9.06fl.oz                    | Max. winding temp.      | 125 °C        |
| Free gas volume comp. | 2,360 cm <sup>3</sup> / 79.80fl.oz | Max. discharge temp.    | 120°C / 248°F |
| Motor protection      | internal                           |                         |               |

### Compressor Dimensions

#### Housing

|                   |                 |
|-------------------|-----------------|
| A Height          | 203mm / 7.99in  |
| B Height          | 197mm / 7.76in  |
| C Length shell    | 205mm / 8.07in  |
| D Length w. cover | 254mm / 10.00in |
| E Width           | 166mm / 6.54in  |

[Find 3D Model here](#)



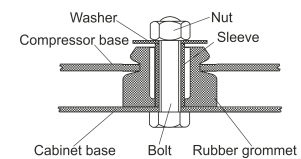
| Connectors            | Suction X                        | Discharge Y                    | Process Z                          |
|-----------------------|----------------------------------|--------------------------------|------------------------------------|
| Diameter [mm]         | øi 8.11–8.29 / 0.32–0.33in       | øi 6.41–6.59 / 0.25–0.26in     | øi 6.41–6.59 / 0.25–0.26in         |
| Material              | CU                               | CU                             | CU                                 |
| Horizontal angle ±2°  | 0°                               | 0°                             | 0°                                 |
| Vertical angle ±2°    | 15°                              | 21°                            | 155°                               |
| Position l/h/w [mm]   | 132/68.5/56.7 / 5.20/2.70/2.23in | 94/101.7/81 / 3.70/4.00/3.19in | -109.3/94.3/72 / -4.30/3.71/2.83in |
| Straight tube l. [mm] | 12 / 0.47in                      | 12 / 0.47in                    | 12 / 0.47in                        |

### Mounting Accessories

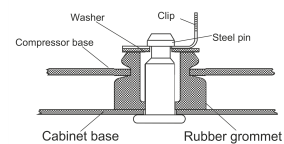


Dimensions in mm [in]

#### Bolt joint



#### Snap-on



|                            | one comp. | multi pack |
|----------------------------|-----------|------------|
| Bolt joint   M6   ø16mm    | 118-1917  | 118-1918   |
| Bolt joint   ø1/4"   ø16mm | 118-1946  | -          |
| Bolt joint   ø1/4"   ø19mm | 118-1949  | -          |
| Snap-on   ø7,3   ø16mm     | 118-1947  | 118-1919   |

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Configuration 1

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### Configuration

|                                    |                       |
|------------------------------------|-----------------------|
| Motor configuration                | <b>CSIR</b>           |
| Power supply (nominal)             | <b>115 V/60 Hz 1~</b> |
| Refrigerant                        | <b>R290</b>           |
| Application                        | <b>LBP+MBP</b>        |
| Voltage range                      | <b>103-127 V</b>      |
| Starting torque                    | <b>HST</b>            |
| Approvals                          | <b>UL</b>             |
| Starting device type               | <b>relay</b>          |
| Run capacitor                      | <b>-/-</b>            |
| Start capacitor                    | <b>280 µF</b>         |
| LRA (locked rotor amps / 4s/ U(N)) | <b>34.53 A</b>        |
| RLA (rated load amps / 1s/ U(N))   | <b>5.6 A</b>          |
| Cut in current (U(N))              | <b>34.53 A</b>        |

### Ambient/ machine room temperatures minimum /maximum

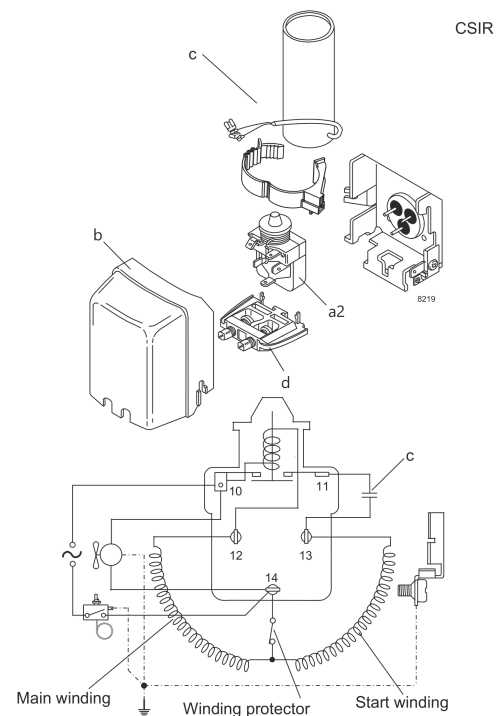
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

### System Cooling

fan 3m/s

### Electrical Accessories / Wiring Diagram



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### Components (already pre-assembled)

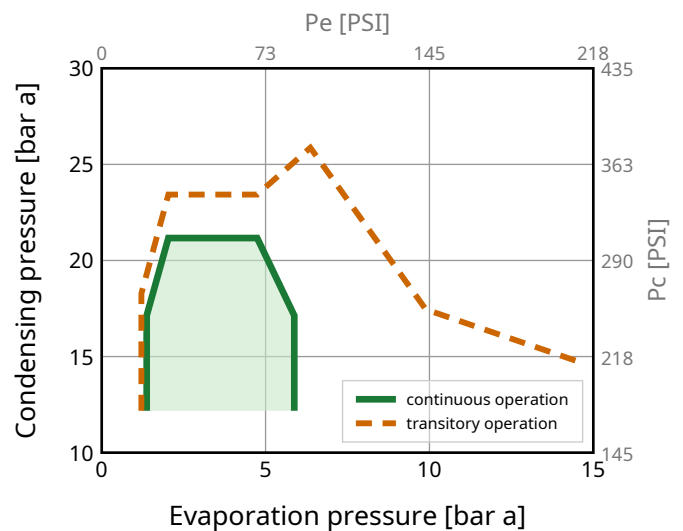
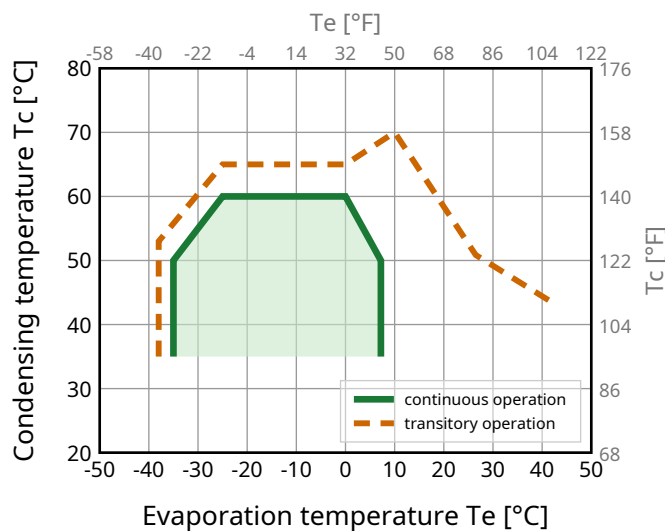
**a2** current relay 117U7018

**c** start capacitor (280µF) 117U5025

**b** plastic cover 103N2011

**d** cord relief 103N1010

### Operation Pressure Range



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Standard Conditions

R290, 115 V/60 Hz, CSIR, 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   | 610              | 2082    | 525      | 1.53  | 5.22     | 399 | 5.18 | 6.20   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131    | 456              | 1557    | 393      | 1.17  | 4.00     | 390 | 5.13 | 5.72   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 362              | 1234    | 311      | 1.26  | 4.31     | 286 | 4.53 | 4.15   | EN12900 LBP |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 1069             | 3648    | 919      | 2.05  | 6.99     | 522 | 5.95 | 12.24  | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131    | 854              | 2914    | 735      | 1.70  | 5.80     | 503 | 5.84 | 10.86  | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 935              | 3192    | 804      | 2.04  | 6.96     | 459 | 5.48 | 11.51  | EN12900 MBP |

Performance Tables

R290, 115 V/60 Hz, CSIR, 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] |
| -35  | -31  | 339              | 1157    | 292      | 1.18  | 4.01     | 288 | 4.51 | 3.82   |
| -30  | -22  | 429              | 1462    | 369      | 1.31  | 4.49     | 326 | 4.74 | 4.84   |
| -20  | -4   | 662              | 2259    | 569      | 1.68  | 5.74     | 394 | 5.12 | 7.53   |
| -10  | 14   | 972              | 3318    | 836      | 2.12  | 7.23     | 459 | 5.48 | 11.17  |
| 0    | 32   | 1364             | 4656    | 1173     | 2.58  | 8.81     | 529 | 5.87 | 15.87  |
| 7.2  | 45   | 1700             | 5800    | 1462     | 2.90  | 9.89     | 586 | 6.20 | 20.00  |

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

|     |     |      |      |      |      |      |     |      |       |
|-----|-----|------|------|------|------|------|-----|------|-------|
| -35 | -31 | 282  | 961  | 242  | 0.93 | 3.16 | 304 | 4.62 | 3.51  |
| -30 | -22 | 360  | 1230 | 310  | 1.03 | 3.52 | 349 | 4.88 | 4.50  |
| -20 | -4  | 570  | 1946 | 490  | 1.33 | 4.54 | 428 | 5.37 | 7.18  |
| -10 | 14  | 854  | 2914 | 735  | 1.70 | 5.80 | 503 | 5.84 | 10.86 |
| 0   | 32  | 1216 | 4151 | 1046 | 2.10 | 7.16 | 580 | 6.36 | 15.69 |
| 7.2 | 45  | 1529 | 5216 | 1315 | 2.39 | 8.14 | 640 | 6.80 | 19.97 |