Singolo
Imballi

# Single Pack NLU8.8DN 220-240V 50Hz CSCR

Codice Imballo Singolo: **195B4622**

| Posizione | Titolo | Codice | Quantità |
|---|---|---|---|
| 1 | Compressor NLU8.8DN | 105H6085 | 1 |
| 2 | SC starting device (550mm) | 117-7812 | 1 |
| 3 | Bolt joint for one compressor \| M6 \| ø16mm | 118-1917 | 1 |

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**Model**
**NLU8.8DN**

Sales code:
**105H6085**

## Compressor Data

| | |
|---|---|
| Refrigerant(s) | **R290** |
| Refr. charge - tech. limit | **300g / 10.58oz** |
| Weight | **11.80 kg / 26.01lbs** |
| Displacement | **8.76 cm3 / 0.53cu.in** |
| Compressors on pallet | **80** |

## General – Configurations With NLU8.8DN

| – | **Conf. 1** |
|---|---|
| Motor configuration | CSCR |
| Power supply (nominal) | 220-240 V/50 Hz |
| Number of phases | 1 |
| Voltage range | 187-254 V |
| Approvals | VDE |
| Starting torque | HST |
| Refrigerant | R290 |
| Application | MBP+HBP |
| Hot gas defrost | OK |
| Long interval pull down | OK |

## Application Notes

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

**Model**
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## Compressor Design

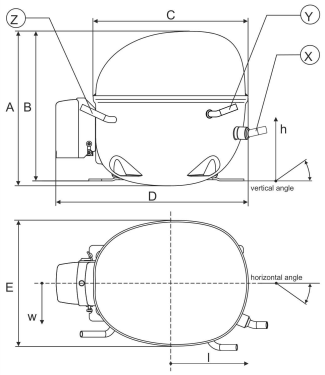
| | | | |
|---|---|---|---|
| Oil type | **POE** | Winding resistance main | **5.68 Ohm** |
| Oil viscosity | **32cSt** | Winding resistance aux | **21.15 Ohm** |
| Oil quantity | **298 / 10.08fl.oz** | Max. winding temp. | **135 °C** |
| Free gas volume comp. | **2,360 cm3 / 79.80fl.oz** | Max. discharge temp. | **130°C / 266°F** |
| Motor protection | **internal** | | |

## Compressor Dimensions

**Housing**

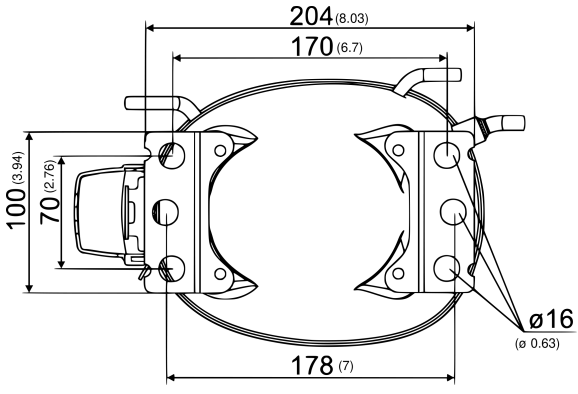
| | |
|---|---|
| A Height | **203mm / 7.99in** |
| B Height | **197mm / 7.76in** |
| C Length shell | **205mm / 8.07in** |
| D Length w. cover | **254mm / 10.00in** |
| E Width | **166mm / 6.54in** |

Find 3D Model here



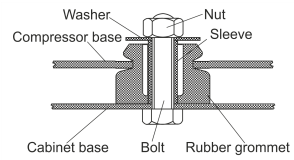

| Connectors | Suction X | Discharge Y | Process Z |
|---|---|---|---|
| Diameter [mm] | øi 8.11–8.29 / 0.32–0.33in | øi 6.11–6.29 / 0.24–0.25in | øi 6.11–6.29 / 0.24–0.25in |
| Material | CU | CU | CU |
| Horizontal angle ±2° | 0° | 0° | 0° |
| Vertical angle ±2° | 15° | 21° | 155° |
| Position l/h/w [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

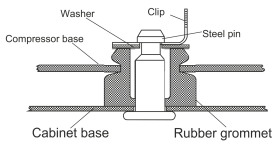



Dimensions in mm [in]

Bolt joint




Snap-on




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

**Model**
**NLU8.8DN** Configuration 1

Sales code:
**105H6085**

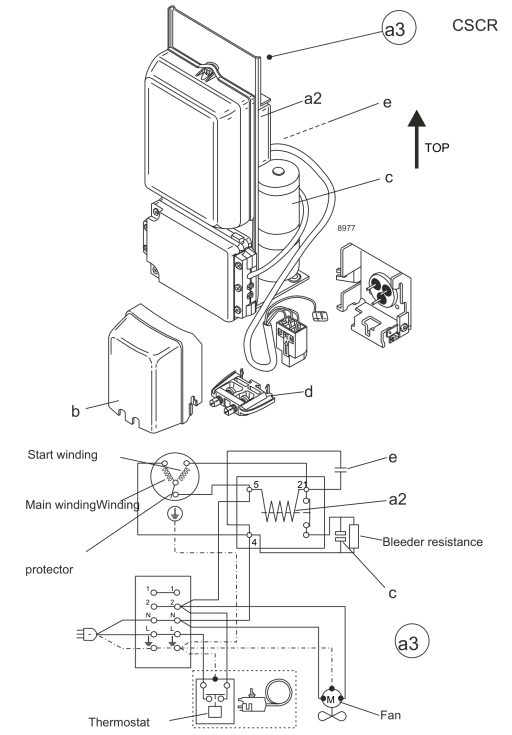
## Configuration

| | |
|---|---|
| Motor configuration | **CSCR** |
| Power supply (nominal) | **220-240 V/50 Hz 1~** |
| Refrigerant | **R290** |
| Application | **MBP+HBP** |
| Voltage range | **187-254 V** |
| Starting torque | **HST** |
| Approvals | **VDE** |
| Starting device type | **relay** |
| Run capacitor | **5 µF** |
| Start capacitor | **60 µF** |
| LRA (locked rotor amps / 4s/ U(N)) | **13 A** |
| RLA (rated load amps / 1s/ U(N)) | **2.4 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

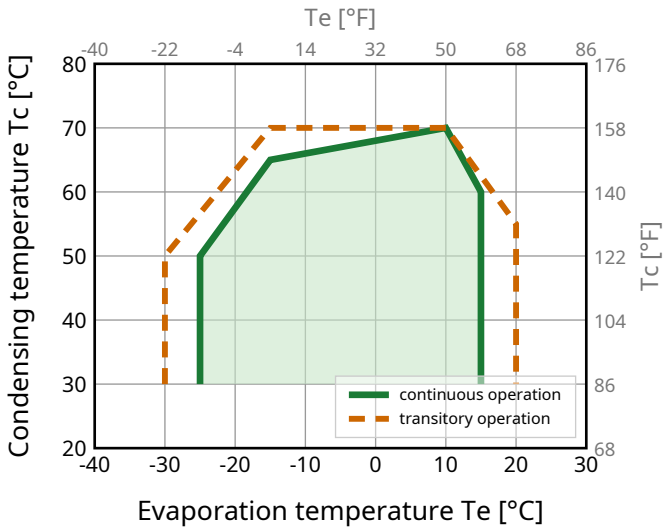


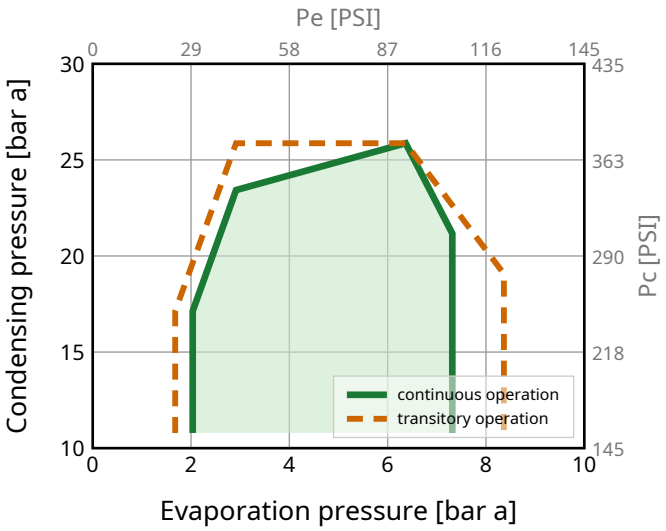

View full size

**Components**
**a3** SC starter kit (550mm) 117-7812

**Alternative components**
**a2** potential relay (RVA 6M3R 339) 117-7425
**c** start capacitor (60µF, 6.3mm) 117U5389
**e** run capacitor (5µF, 6.3mm) 117-7111
**b** plastic cover 103N2010
**d** cord relief 103N1010
assy. cable (1035mm) 117-7095

## Operation Pressure Range



**Model**

**NLU8.8DN** Configuration 1

Sales code:

**105H6085**

## 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] | |
| -6.7 20 | 54.4 129.9 | 35 95 | 46.1 115 | **722** | 2464 | 621 | **2.17** | 7.41 | 333 | 1.53 | 8.27 | **ASHRAE MBP** |
| -10 14 | 55 131 | 32 89.6 | 55 131 | **568** | 1939 | 489 | **1.79** | 6.10 | 318 | 1.46 | 7.23 | **CECOMAF MBP** |
| -10 14 | 45 113 | 20 68 | 45 113 | **637** | 2174 | 548 | **2.21** | 7.54 | 288 | 1.34 | 7.84 | **EN12900 MBP** |
| 7.2 45 | 54.4 129.9 | 35 95 | 46.1 115 | **1210** | 4130 | 1041 | **3.09** | 10.54 | 392 | 1.82 | 14.13 | **ASHRAE HBP** |
| 5 41 | 55 131 | 32 89.6 | 55 131 | **1008** | 3438 | 866 | **2.60** | 8.88 | 387 | 1.79 | 13.11 | **CECOMAF HBP** |
| 5 41 | 50 122 | 20 68 | 50 122 | **1041** | 3551 | 895 | **2.89** | 9.87 | 360 | 1.67 | 13.86 | **EN12900 HBP** |

## Performance Tables

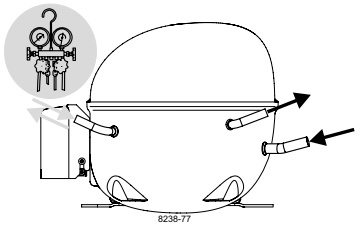
**R290**, 220 V/50 Hz, CSCR, fan 3m/s

**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] |
| -25 | -13 | **352** | 1199 | 302 | **1.54** | 5.26 | 228 | 1.11 | 3.98 |
| -20 | -4 | **434** | 1482 | 373 | **1.74** | 5.95 | 249 | 1.18 | 4.94 |
| -10 | 14 | **663** | 2261 | 570 | **2.30** | 7.84 | 288 | 1.34 | 7.61 |
| 0 | 32 | **980** | 3342 | 842 | **3.06** | 10.45 | 320 | 1.50 | 11.39 |
| 10 | 50 | **1391** | 4747 | 1197 | **4.08** | 13.92 | 341 | 1.60 | 16.45 |
| 15 | 59 | **1634** | 5577 | 1406 | **4.72** | 16.09 | 346 | 1.63 | 19.54 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -25 | -13 | **293** | 999 | 252 | **1.24** | 4.23 | 236 | 1.14 | 3.67 |
| -20 | -4 | **368** | 1255 | 316 | **1.39** | 4.75 | 264 | 1.24 | 4.63 |
| -10 | 14 | **568** | 1939 | 489 | **1.79** | 6.10 | 318 | 1.46 | 7.23 |
| 0 | 32 | **842** | 2872 | 724 | **2.30** | 7.85 | 366 | 1.69 | 10.86 |
| 10 | 50 | **1194** | 4073 | 1027 | **2.95** | 10.06 | 405 | 1.88 | 15.69 |
| 15 | 59 | **1401** | 4780 | 1205 | **3.33** | 11.38 | 420 | 1.95 | 18.63 |




# NLU-DN Compressors

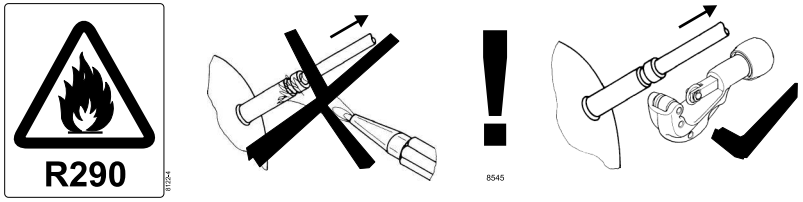
SECOP

Keep electrical equipment clear from oil, chemicals, and water

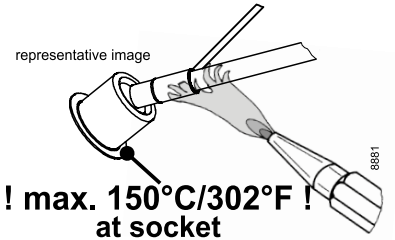
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

## Service/Repair – R290

(applies to all flammable refrigerants)




## Brazing on Suction Connectors (Direct Intake)

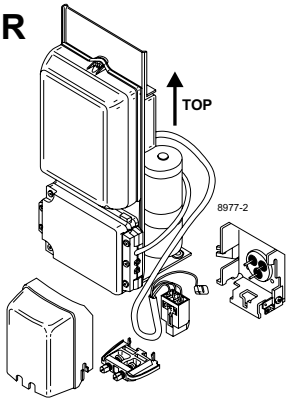


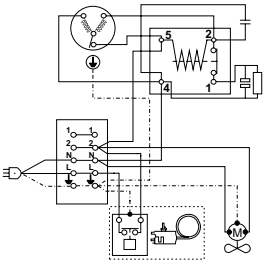

**! max. 150°C/302°F !**
**at socket**

brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:
**Brazing on Suction Connectors**
**(Compressors with Direct Suction Intake)**

## CSCR



**Dismantling, recycling, disposal:** At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**