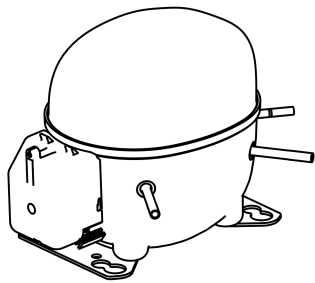


NEK2125U



ENGINEERING CODE  
861CA51



REFRIGERANT  
R-290



POWER SUPPLY  
220-240 V 50 Hz



APPLICATION  
LBP



MOTOR TYPE  
CSIR



STANDARD  
EN12900



COOLING CAPACITY  
199 W



EFFICIENCY  
1.11 W/W



DATA

GENERAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Model                  | NEK2125U                          |
| Type                   | Hermetic Reciprocating            |
| Technology             | ON/OFF                            |
| Compressor Application | LBP                               |
| Expansion Device       | Capillary Tube or Expansion Valve |
| Compressor Cooling     | Fan/220                           |
| HP                     | 1/3                               |
| Starting Torque        | HST                               |
| Plant                  | SLOVAKIA                          |

ELECTRICAL DATA

|                          |                |
|--------------------------|----------------|
| Start Winding Resistance | 28.9 Ω at 25°C |
| Run Winding Resistance   | 6.8 Ω at 25°C  |

MECHANICAL DATA

|               |          |
|---------------|----------|
| Displacement  | 7.28 cm³ |
| Oil Charge    | 350 ml   |
| Oil Type      | AB       |
| Oil Viscosity | ISO32    |
| Weight        | 10.4 Kg  |

ELECTRICAL COMPONENTS

|                             |                |
|-----------------------------|----------------|
| Start Capacitor             | 53-64 µf/330 V |
| CSR CSIR BOX                | No             |
| Starting Device Type        | RELAY          |
| Starting Device Description | MTRPH0027-59*  |
| Overload Protection         | T0525/G6       |

PERFORMANCE

TESTED CONDITIONS

|                         |         |
|-------------------------|---------|
| Tested Refrigerant      | R-290   |
| Tested Application      | LBP     |
| Tested Standard         | EN12900 |
| Tested Cooling          | Fan     |
| Tested Voltage          | 220 V   |
| Refrigerant Temperature | Dew     |

RATED POINTS

| Condensing Temperature °C | Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|---------------------------|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| 40                        | -35                        | 199                | 1.11           | 180                 | -         | 2.28               |

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 35°C

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -40                        | 178                | 1.13           | 157                 | -         | 1.95               |
| -35                        | 215                | 1.22           | 177                 | -         | 2.37               |
| -30                        | 263                | 1.34           | 196                 | -         | 2.89               |
| -25                        | 323                | 1.50           | 215                 | -         | 3.56               |
| -20                        | 400                | 1.73           | 231                 | -         | 4.43               |
| -15                        | 496                | 2.04           | 244                 | -         | 5.53               |
| -10                        | 616                | 2.45           | 251                 | -         | 6.91               |

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

PERFORMANCE CURVE

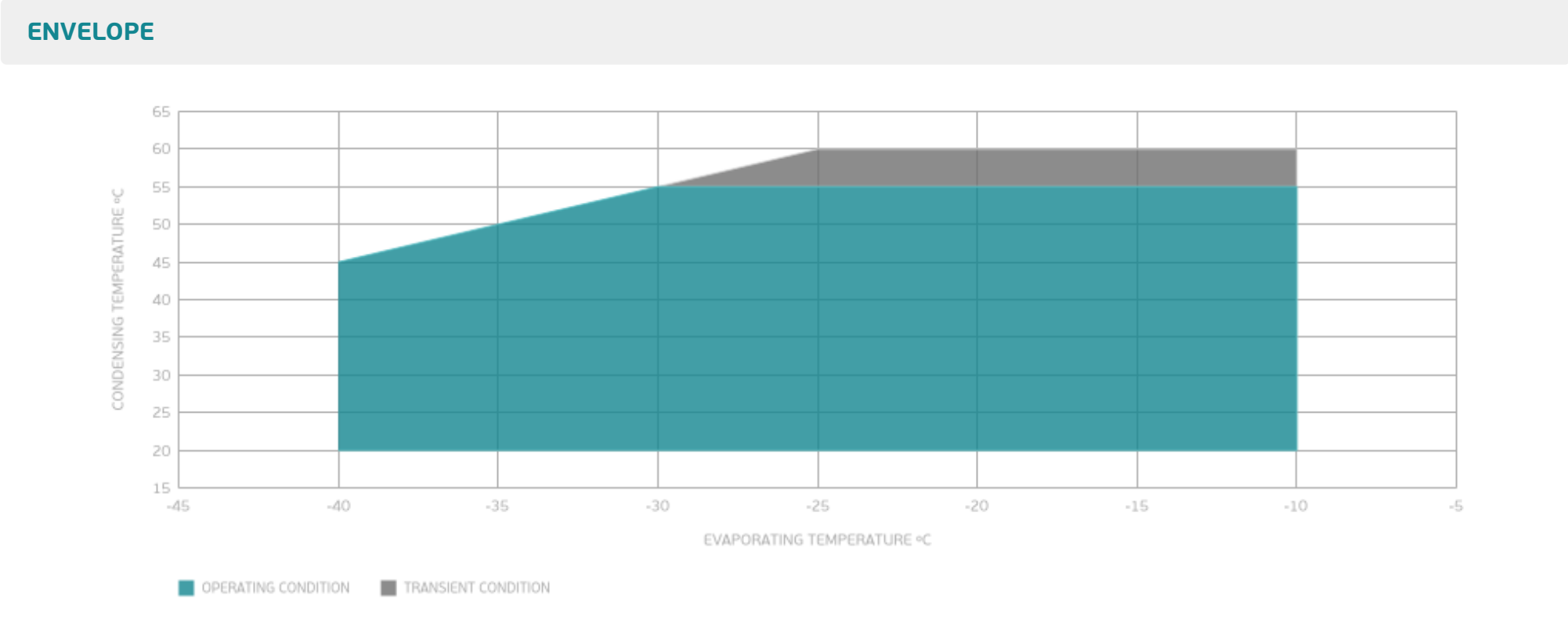
Condensing Temperature 45°C

| Evaporating Temperature °C                                                                                | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -40                                                                                                       | 149                | 0.93           | 160                 | -         | 1.79               |
| -35                                                                                                       | 182                | 1.00           | 181                 | -         | 2.19               |
| -30                                                                                                       | 223                | 1.09           | 204                 | -         | 2.69               |
| -25                                                                                                       | 275                | 1.22           | 226                 | -         | 3.33               |
| -20                                                                                                       | 343                | 1.38           | 248                 | -         | 4.17               |
| -15                                                                                                       | 428                | 1.60           | 268                 | -         | 5.24               |
| -10                                                                                                       | 535                | 1.88           | 284                 | -         | 6.59               |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |           |                    |

PERFORMANCE CURVE

Condensing Temperature 55°C

| Evaporating Temperature °C                                                                                | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -30                                                                                                       | 182                | 0.89           | 205                 | -         | 2.44               |
| -25                                                                                                       | 226                | 0.98           | 231                 | -         | 3.06               |
| -20                                                                                                       | 284                | 1.10           | 257                 | -         | 3.86               |
| -15                                                                                                       | 359                | 1.27           | 283                 | -         | 4.90               |
| -10                                                                                                       | 453                | 1.47           | 307                 | -         | 6.21               |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |           |                    |



External

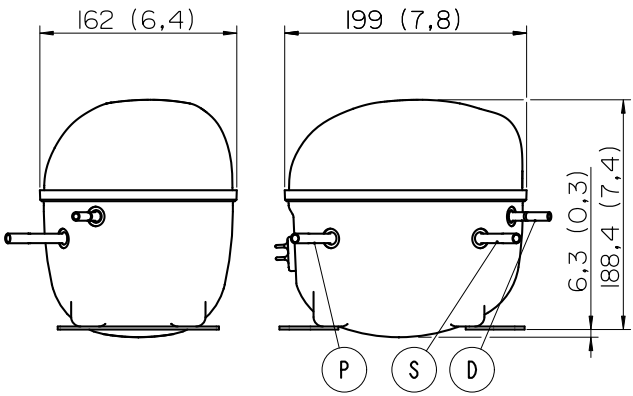
EXTERNAL CHARACTERISTICS

|             |       |
|-------------|-------|
| Base Plate  | SMALL |
| Tray Holder | NO    |

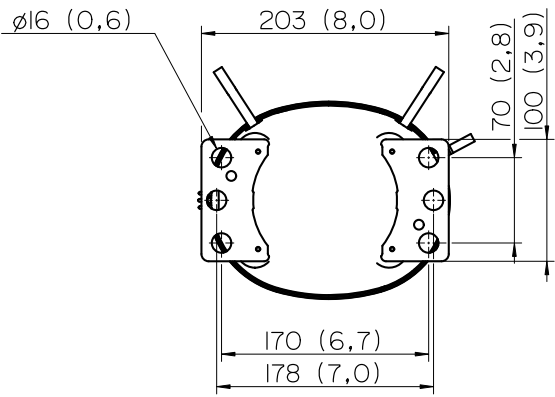
| Connector | Internal Diameter | Shape       | Material |
|-----------|-------------------|-------------|----------|
| Suction   | 8.1 mm            | SLANTED 42° | COPPER   |
| Discharge | 6.1 mm            | STRAIGHT    | COPPER   |

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

