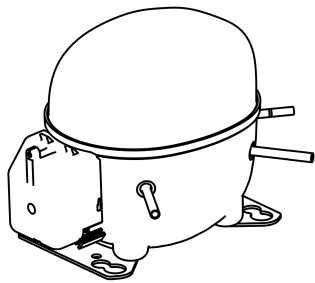


NEK2134U



ENGINEERING CODE  
862AA51



REFRIGERANT  
R-290



POWER SUPPLY  
220-240 V 50 Hz



APPLICATION  
LBP



MOTOR TYPE  
CSIR



STANDARD  
EN12900



COOLING CAPACITY  
269 W



EFFICIENCY  
1.22 W/W

DATA

GENERAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Model                  | NEK2134U                          |
| Type                   | Hermetic Reciprocating            |
| Technology             | ON/OFF                            |
| Compressor Application | LBP                               |
| Expansion Device       | Capillary Tube or Expansion Valve |
| Compressor Cooling     | Fan/220                           |
| HP                     | 1/2                               |
| Starting Torque        | HST                               |
| Plant                  | SLOVAKIA                          |

ELECTRICAL DATA

|                                  |                 |
|----------------------------------|-----------------|
| Start Winding Resistance         | 24.26 Ω at 25°C |
| Run Winding Resistance           | 7.79 Ω at 25°C  |
| Locked Rotor Amperage (LRA) 50Hz | 14 A            |

MECHANICAL DATA

|               |          |
|---------------|----------|
| Displacement  | 9.99 cm³ |
| Oil Charge    | 350 ml   |
| Oil Type      | AB       |
| Oil Viscosity | ISO32    |
| Weight        | 10.6 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         | T0168/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                        | 269                | 1.22           | 220                 | -         | 3.08               |

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                        | 232                | 1.28           | 181                 | -         | 2.54               |
| -35                        | 287                | 1.34           | 214                 | -         | 3.16               |
| -30                        | 359                | 1.44           | 250                 | -         | 3.95               |
| -25                        | 448                | 1.57           | 285                 | -         | 4.94               |
| -20                        | 557                | 1.77           | 315                 | -         | 6.17               |
| -15                        | 689                | 2.04           | 337                 | -         | 7.67               |
| -10                        | 845                | 2.44           | 346                 | -         | 9.47               |

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

PERFORMANCE CURVE

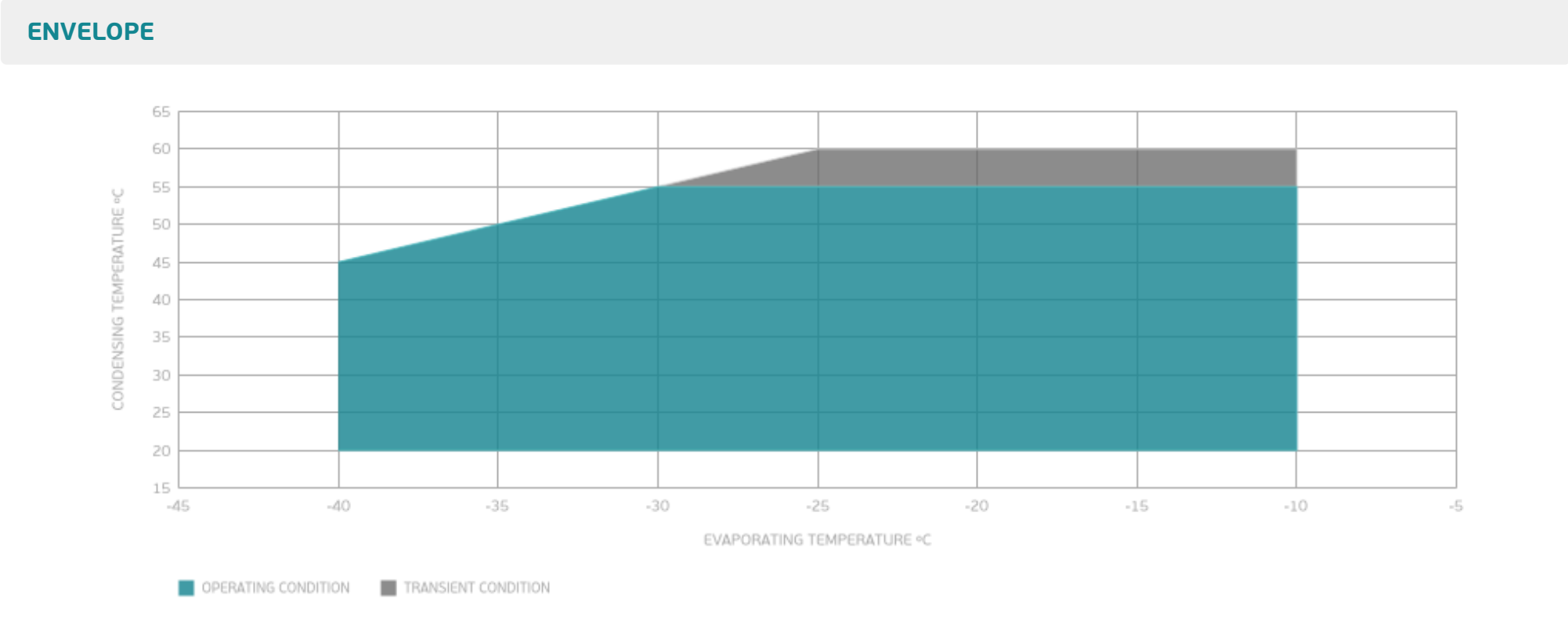
Condensing Temperature 45°C

| Evaporating Temperature °C                                                                                | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -40                                                                                                       | 203                | 1.04           | 195                 | -         | 2.43               |
| -35                                                                                                       | 250                | 1.10           | 227                 | -         | 3.00               |
| -30                                                                                                       | 310                | 1.17           | 264                 | -         | 3.75               |
| -25                                                                                                       | 387                | 1.27           | 304                 | -         | 4.69               |
| -20                                                                                                       | 482                | 1.41           | 341                 | -         | 5.87               |
| -15                                                                                                       | 597                | 1.61           | 372                 | -         | 7.31               |
| -10                                                                                                       | 735                | 1.87           | 393                 | -         | 9.05               |
| 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                                                                                                       | 261                | 0.94           | 277                 | -         | 3.50               |
| -25                                                                                                       | 325                | 1.02           | 317                 | -         | 4.39               |
| -20                                                                                                       | 405                | 1.13           | 359                 | -         | 5.50               |
| -15                                                                                                       | 504                | 1.27           | 396                 | -         | 6.88               |
| -10                                                                                                       | 624                | 1.46           | 426                 | -         | 8.56               |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |           |                    |



External

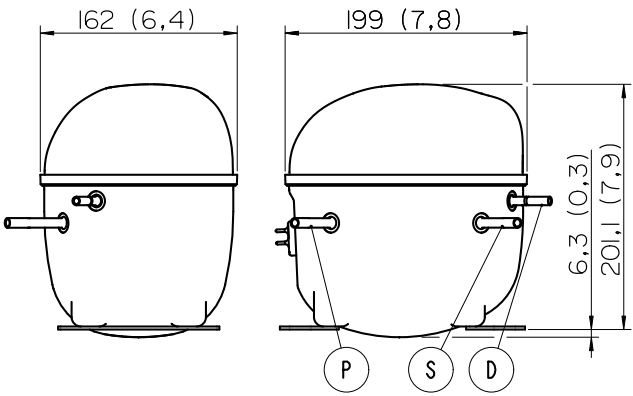
EXTERNAL CHARACTERISTICS

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

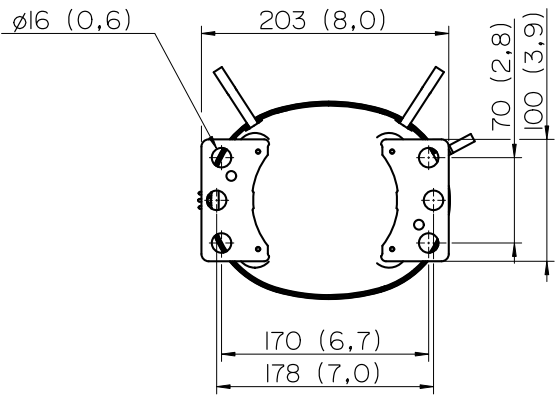
| Connector | Internal Diameter | Shape       | Material |
|-----------|-------------------|-------------|----------|
| Suction   | 8.1 mm            | SLANTED 42° | COPPER   |
| Discharge | 6.1 mm            | STRAIGHT    | COPPER   |

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

