

NEU2155U



**ENGINEERING CODE**  
862KA58



**REFRIGERANT**  
R-290



**POWER SUPPLY**  
220-240 V 50 Hz



**APPLICATION**  
LBP



**MOTOR TYPE**  
CSIR



**STANDARD**  
ASHRAE



**COOLING CAPACITY**  
641 W



**EFFICIENCY**  
1.46 W/W



DATA

GENERAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Model                  | NEU2155U                          |
| 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            | 19.29 Ω at 25°C |
| Run Winding Resistance              | 5.98 Ω at 25°C  |
| Locked Rotor Amperage (LRA) 50Hz    | 17.5 A          |
| Rated Load Amperage (LMBP) at 50 Hz | 2.6 A           |

## MECHANICAL DATA

|               |                       |
|---------------|-----------------------|
| Displacement  | 13.54 cm <sup>3</sup> |
| Oil Charge    | 350 ml                |
| Oil Type      | AB                    |
| Oil Viscosity | ISO32                 |
| Weight        | 11.1 Kg               |

## ELECTRICAL COMPONENTS

|                             |                |
|-----------------------------|----------------|
| Start Capacitor             | 64-77 µf/330 V |
| CSR CSIR BOX                | No             |
| Starting Device Type        | RELAY          |
| Starting Device Description | MTRP-49-65*    |
| Overload Protection         | T0056/G6       |

## PERFORMANCE

### TESTED CONDITIONS

|                         |        |
|-------------------------|--------|
| Tested Refrigerant      | R-290  |
| Tested Application      | LBP    |
| Tested Standard         | ASHRAE |
| 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 |
|---------------------------|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| 54.4                      | -23.3                      | 641                | 1.46           | 439                 | 2.51      | 6.51               |

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

### 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                        | 317                | 1.23           | 258                 | 1.88      | 3.19               |
| -35                        | 409                | 1.40           | 293                 | 1.99      | 4.13               |
| -30                        | 523                | 1.59           | 329                 | 2.11      | 5.29               |
| -25                        | 660                | 1.80           | 366                 | 2.24      | 6.70               |
| -20                        | 821                | 2.04           | 402                 | 2.37      | 8.36               |
| -15                        | 1008               | 2.32           | 435                 | 2.51      | 10.30              |
| -10                        | 1221               | 2.63           | 465                 | 2.66      | 12.54              |

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## 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                        | 298                | 1.10           | 271                 | 1.92      | 3.00               |
| -35                        | 388                | 1.25           | 311                 | 2.05      | 3.91               |
| -30                        | 498                | 1.41           | 354                 | 2.19      | 5.04               |
| -25                        | 630                | 1.58           | 399                 | 2.35      | 6.39               |
| -20                        | 786                | 1.76           | 445                 | 2.52      | 8.00               |
| -15                        | 966                | 1.97           | 491                 | 2.70      | 9.87               |
| -10                        | 1171               | 2.19           | 534                 | 2.89      | 12.02              |

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

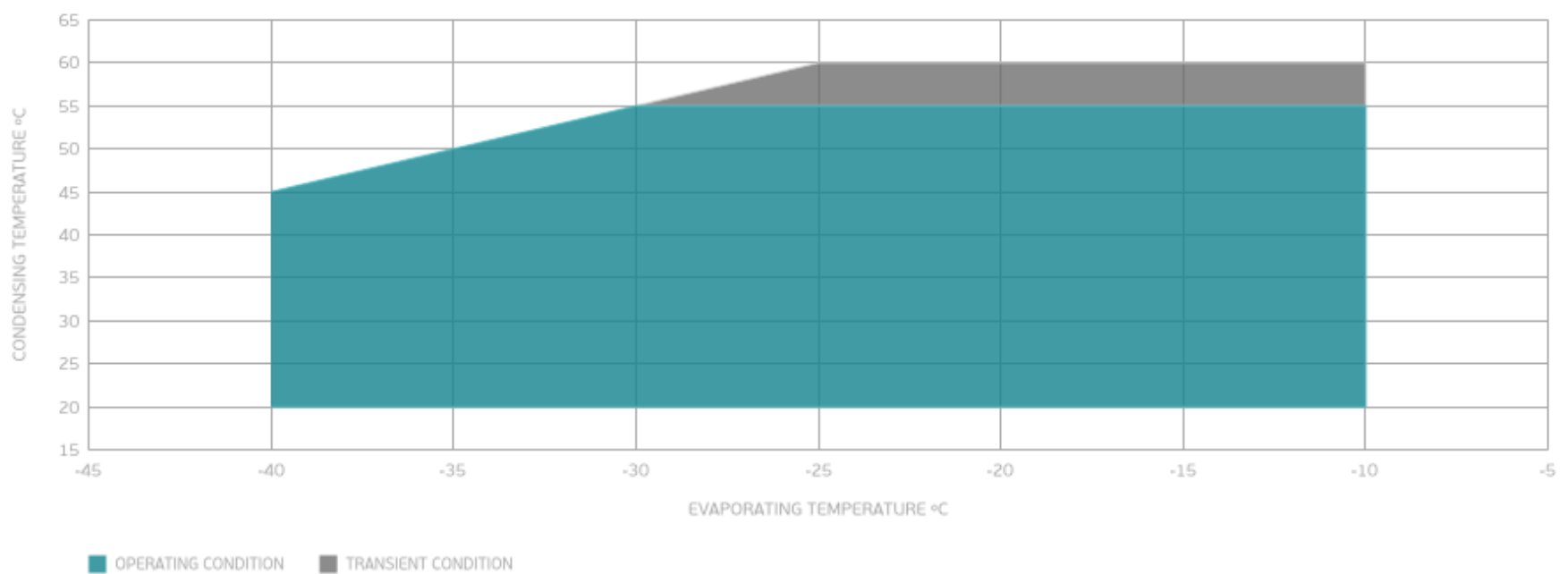
## PERFORMANCE CURVE

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -30                        | 462                | 1.25           | 369                 | 2.26      | 4.68               |
| -25                        | 590                | 1.40           | 421                 | 2.45      | 5.99               |
| -20                        | 740                | 1.55           | 477                 | 2.66      | 7.53               |
| -15                        | 914                | 1.71           | 534                 | 2.89      | 9.34               |
| -10                        | 1112               | 1.88           | 591                 | 3.13      | 11.41              |

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE



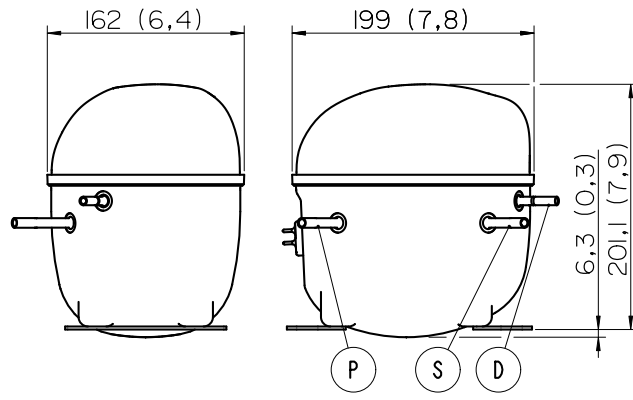
## External

### EXTERNAL CHARACTERISTICS

|                  |                          |              |                 |
|------------------|--------------------------|--------------|-----------------|
| Base Plate       |                          | SMALL        |                 |
| Tray Holder      |                          | YES          |                 |
| <b>Connector</b> | <b>Internal Diameter</b> | <b>Shape</b> | <b>Material</b> |
| Suction          | 8.1 mm                   | SLANTED 42°  | COPPER          |
| Discharge        | 6.1 mm                   | STRAIGHT     | COPPER          |

**EXTERNAL DIMENSIONS**

**SHELL**



**BASE**



**FENCE**

