

NEU6214Z



**ENGINEERING CODE**  
269NA51



**REFRIGERANT**  
R-134a



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



**APPLICATION**  
HBP



**MOTOR TYPE**  
CSCR



**STANDARD**  
EN12900



**COOLING CAPACITY**  
1477 W



**EFFICIENCY**  
2.29 W/W



DATA

GENERAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Model                  | NEU6214Z                          |
| Type                   | Hermetic Reciprocating            |
| Technology             | ON/OFF                            |
| Compressor Application | HBP                               |
| Expansion Device       | Capillary Tube or Expansion Valve |
| Compressor Cooling     | Fan/220                           |
| HP                     | 1/2                               |
| Starting Torque        | HST                               |
| Plant                  | SLOVAKIA                          |

ELECTRICAL DATA

|                                    |                 |
|------------------------------------|-----------------|
| Start Winding Resistance           | 14.26 Ω at 25°C |
| Run Winding Resistance             | 4.25 Ω at 25°C  |
| Locked Rotor Amperage (LRA) 50Hz   | 22 A            |
| Rated Load Amperage (HBP) at 50 Hz | 3.3 A           |

## MECHANICAL DATA

|               |                      |
|---------------|----------------------|
| Displacement  | 16.8 cm <sup>3</sup> |
| Oil Charge    | 350 ml               |
| Oil Type      | ESTER                |
| Oil Viscosity | ISO22                |
| Weight        | 11.6 Kg              |

## ELECTRICAL COMPONENTS

|                             |                 |
|-----------------------------|-----------------|
| Start Capacitor             | 88-108 µf/330 V |
| Run Capacitor               | 15.0 µf/400 V   |
| CSR CSIR BOX                | Yes             |
| Starting Device Description | RVA3AN3C-647    |
| Overload Protection         | MST30APK-3261   |

## 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   |
| Process   | 6.1 mm            | SLANTED 42° | COPPER   |

## PERFORMANCE

### TESTED CONDITIONS

|                         |         |
|-------------------------|---------|
| Tested Refrigerant      | R-134a  |
| Tested Application      | HBP     |
| Tested Standard         | EN12900 |
| Tested Cooling          | Fan     |
| Tested Voltage          | 220 V   |
| Tested Frequency        | 50 Hz   |
| 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 |
|---------------------------|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| 50                        | 5                          | 1477               | 2.29           | 645                 | -         | 37.07              |

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 |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -15                        | 744                | 1.96           | 379                 | -         | 15.74              |
| -10                        | 940                | 2.24           | 420                 | -         | 20.00              |
| -5                         | 1174               | 2.51           | 469                 | -         | 25.10              |
| 0                          | 1449               | 2.80           | 518                 | -         | 31.16              |
| 5                          | 1768               | 3.14           | 562                 | -         | 38.30              |
| 10                         | 2133               | 3.59           | 594                 | -         | 46.63              |

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 |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -15                        | 656                | 1.59           | 414                 | -         | 15.23              |
| -10                        | 834                | 1.84           | 453                 | -         | 19.46              |
| -5                         | 1045               | 2.07           | 506                 | -         | 24.50              |
| 0                          | 1291               | 2.28           | 566                 | -         | 30.49              |
| 5                          | 1576               | 2.51           | 629                 | -         | 37.53              |
| 10                         | 1903               | 2.78           | 685                 | -         | 45.76              |

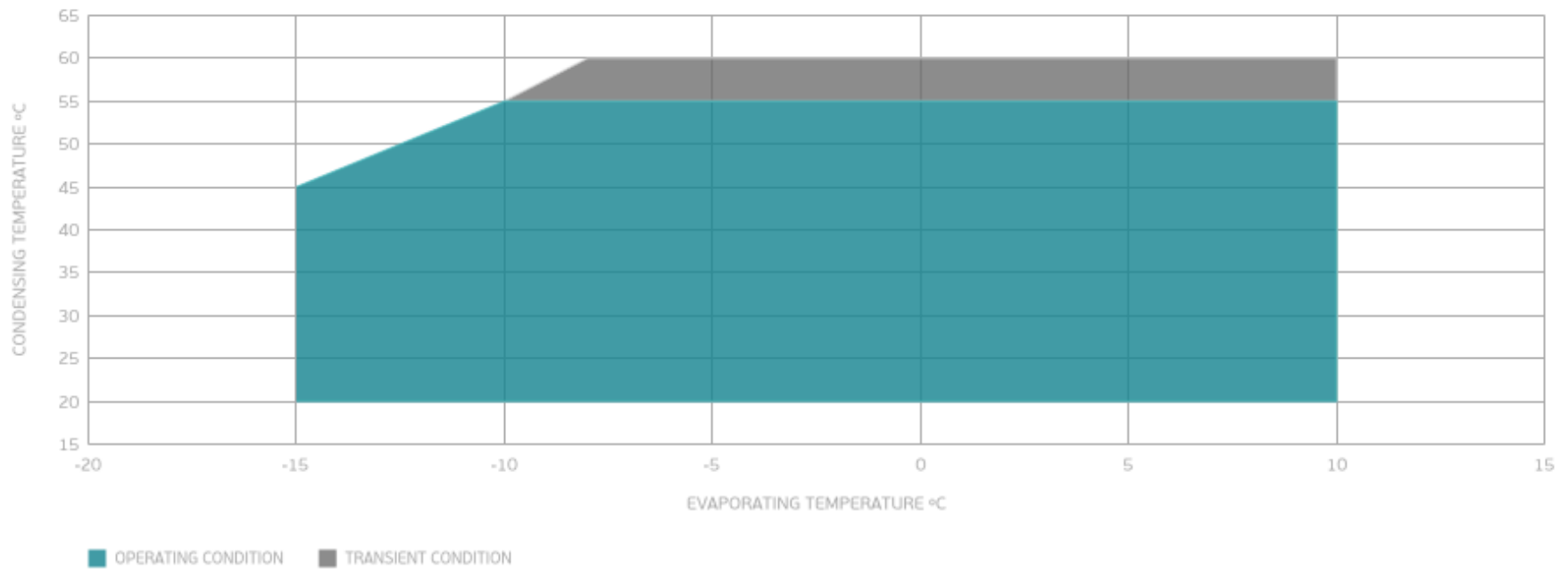
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

**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 |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -10                        | 721                | 1.54           | 468                 | -         | 18.68              |
| -5                         | 907                | 1.76           | 516                 | -         | 23.67              |
| 0                          | 1125               | 1.94           | 579                 | -         | 29.58              |
| 5                          | 1377               | 2.12           | 650                 | -         | 36.54              |
| 10                         | 1665               | 2.30           | 723                 | -         | 44.66              |

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

## ENVELOPE



## EXTERNAL DIMENSIONS

