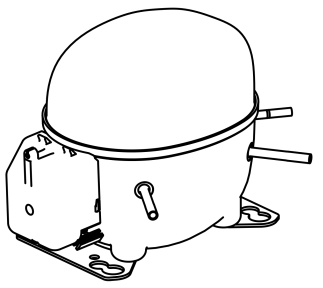
# COMPRESSOR TECHNICAL DATA

## NEU6214Z



**ENGINEERING CODE**
269NA51

**REFRIGERANT**
R-134a

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

**APPLICATION**
HBP

**MOTOR TYPE**
CSCR

**STANDARD**
ASHRAE

**COOLING CAPACITY**
1687 W

**EFFICIENCY**
2.44 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 $cm^3$ |
| **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 |

# PERFORMANCE

## TESTED CONDITIONS

| | |
|---|---|
| **Tested Refrigerant** | R-134a |
| **Tested Application** | HBP |
| **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 | 7.2 | 1687 | 2.44 | 690 | 3.11 | 37.33 |

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## PERFORMANCE CURVE

Condensing Temperature 35ºC

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|---|---|---|---|---|---|
| -15 | 800 | 2.12 | 378 | 1.71 | 14.76 |
| -10 | 1012 | 2.42 | 419 | 1.89 | 18.74 |
| -5 | 1265 | 2.71 | 466 | 2.09 | 23.51 |
| 0 | 1563 | 3.04 | 514 | 2.31 | 29.17 |
| 5 | 1908 | 3.42 | 557 | 2.55 | 35.82 |
| 10 | 2305 | 3.91 | 590 | 2.81 | 43.54 |

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## PERFORMANCE CURVE

### Condensing Temperature 45ºC

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|---|---|---|---|---|---|
| -15 | 719 | 1.75 | 411 | 1.82 | 14.33 |
| -10 | 914 | 2.02 | 451 | 2.04 | 18.28 |
| -5 | 1145 | 2.27 | 505 | 2.26 | 22.99 |
| 0 | 1415 | 2.50 | 566 | 2.50 | 28.57 |
| 5 | 1728 | 2.75 | 629 | 2.76 | 35.10 |
| 10 | 2087 | 3.04 | 688 | 3.03 | 42.67 |

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

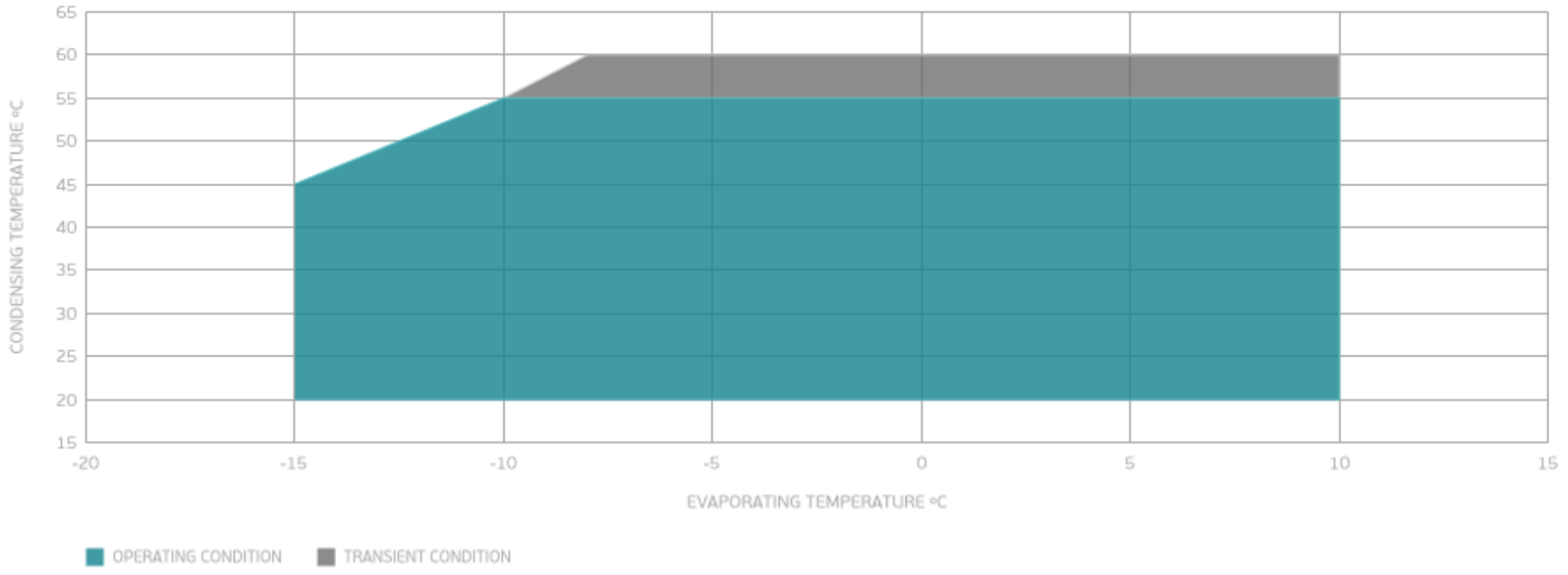
## PERFORMANCE CURVE

### Condensing Temperature 55ºC

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|---|---|---|---|---|---|
| -10 | 803 | 1.72 | 466 | 2.16 | 17.51 |
| -5 | 1012 | 1.96 | 517 | 2.43 | 22.18 |
| 0 | 1256 | 2.16 | 583 | 2.70 | 27.68 |
| 5 | 1538 | 2.34 | 657 | 2.99 | 34.11 |
| 10 | 1860 | 2.53 | 734 | 3.30 | 41.56 |

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE




# External

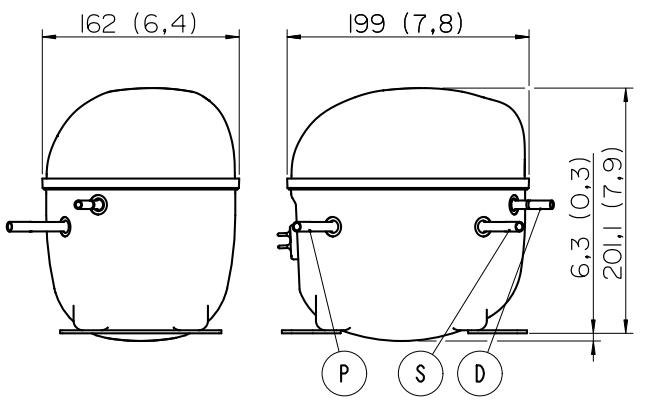
## EXTERNAL CHARACTERISTICS

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

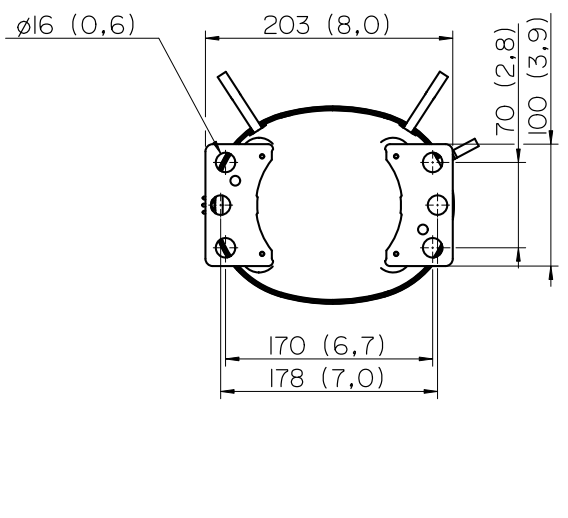
| Connector | Internal Diameter | Shape | Material |
|---|---|---|---|
| **Suction** | 8.1 mm | SLANTED 42° | COPPER |
| **Discharge** | 6.1 mm | STRAIGHT | COPPER |
| **Process** | 6.1 mm | SLANTED 42° | COPPER |

## EXTERNAL DIMENSIONS

### SHELL




### BASE




### FENCE