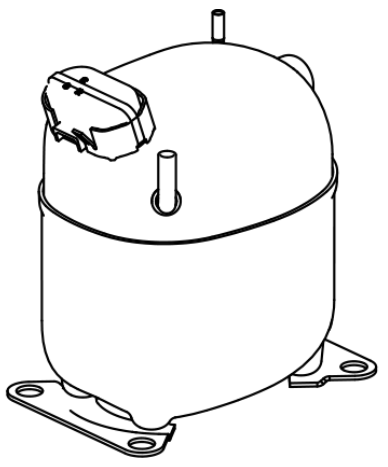
# COMPRESSOR TECHNICAL DATA

## NJ9238GK



**ENGINEERING CODE**
943RV95

**REFRIGERANT**
R-404A

**POWER SUPPLY**
230 V 50 Hz

**APPLICATION**
MBP

**MOTOR TYPE**
CSCR

**STANDARD**
EN12900

**COOLING CAPACITY**
2428 W

**EFFICIENCY**
1.59 W/W

## DATA

### GENERAL DATA

| | |
|---|---|
| **Model** | NJ9238GK |
| **Type** | Hermetic Reciprocating |
| **Technology** | ON/OFF |
| **Compressor Application** | MBP |
| **Expansion Device** | Capillary Tube or Expansion Valve |
| **Compressor Cooling** | Fan/230 |
| **HP** | 1 1/2 |
| **Starting Torque** | HST |
| **Plant** | SLOVAKIA |

### ELECTRICAL DATA

| | |
|---|---|
| **Start Winding Resistance** | 5.46 Ω at 25°C |
| **Run Winding Resistance** | 1.83 Ω at 25°C |
| **Locked Rotor Amperage (LRA) 50Hz** | 43 A |

## MECHANICAL DATA

| | |
|---|---|
| **Displacement** | 32.67 $cm^3$ |
| **Oil Charge** | 750 ml |
| **Oil Type** | ESTER |
| **Oil Viscosity** | ISO22 |
| **Weight** | 20.6 Kg |

## ELECTRICAL COMPONENTS

| | |
|---|---|
| **Start Capacitor** | 130-156 µf/330 V |
| **Run Capacitor** | 25.0 µf/400 V |
| **CSR CSIR BOX** | Yes |
| **Starting Device Description** | RVA3H3C-108 |
| **Overload Protection** | T0878/C9 OR MRA3764- |

## EXTERNAL CHARACTERISTICS

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

| Connector | Internal Diameter | Shape | Material |
|---|---|---|---|
| **Suction** | 12.77 mm | VERTICAL | COPPER |
| **Discharge** | 8 mm | SLANTED J | COPPER |
| **Process** | 6.42 mm | VERTICAL | COPPER |

# PERFORMANCE

## TESTED CONDITIONS

| | |
|---|---|
| **Tested Refrigerant** | R-404A |
| **Tested Application** | MBP |
| **Tested Standard** | EN12900 |
| **Tested Cooling** | Fan |
| **Tested Voltage** | 230 V |
| **Tested Frequency** | 50 Hz |
| **Max Refrigerant Charge** | 800 g |
| **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 |
|---|---|---|---|---|---|---|
| 45 | -10 | 2428 | 1.59 | 1532 | 7.43 | 72.91 |

Test Condition: Subcooling 0 K, Return Gas 20 °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 |
|---|---|---|---|---|---|
| -20 | 1896 | 1.62 | 1170 | 6.08 | 49.15 |
| -15 | 2410 | 1.83 | 1314 | 6.57 | 62.97 |
| -10 | 2997 | 2.06 | 1457 | 7.09 | 79.01 |
| -5 | 3650 | 2.30 | 1584 | 7.65 | 97.25 |
| 0 | 4364 | 2.59 | 1683 | 8.22 | 117.70 |

Test Condition: Subcooling 0 K, Return Gas 20 °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 |
|---|---|---|---|---|---|
| -20 | 1515 | 1.25 | 1211 | 6.20 | 44.66 |
| -15 | 1938 | 1.42 | 1362 | 6.80 | 57.61 |
| -10 | 2428 | 1.59 | 1532 | 7.43 | 72.91 |
| -5 | 2979 | 1.74 | 1708 | 8.10 | 90.55 |
| 0 | 3584 | 1.91 | 1875 | 8.81 | 110.53 |

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

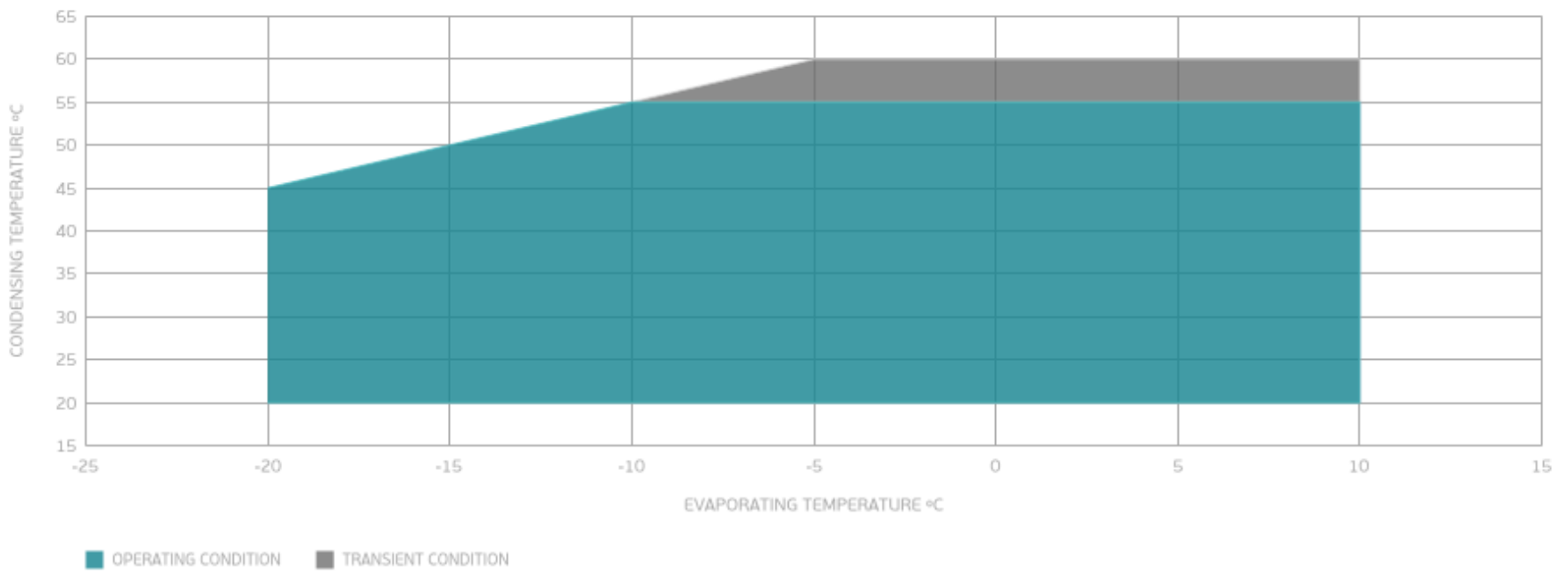
## PERFORMANCE CURVE

### Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|---|---|---|---|---|---|
| -10 | 1886 | 1.20 | 1569 | 7.70 | 66.84 |
| -5 | 2324 | 1.32 | 1762 | 8.44 | 83.55 |
| 0 | 2810 | 1.43 | 1968 | 9.23 | 102.73 |

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE




## EXTERNAL DIMENSIONS