# COMPRESSOR TECHNICAL DATA

## NEU6220GK

**ENGINEERING CODE**
959TA51

**REFRIGERANT**
R-404A

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

**APPLICATION**
MBP

**MOTOR TYPE**
CSCR

**STANDARD**
ASHRAE

**COOLING CAPACITY**
1406 W

**EFFICIENCY**
1.75 W/W

## DATA

### GENERAL DATA

| | |
|---|---|
| **Model** | NEU6220GK |
| **Type** | Hermetic Reciprocating |
| **Technology** | ON/OFF |
| **Compressor Application** | MBP |
| **Expansion Device** | Capillary Tube or Expansion Valve |
| **Compressor Cooling** | Fan/220 |
| **HP** | 3/4 |
| **Starting Torque** | HST |
| **Plant** | SLOVAKIA |

### ELECTRICAL DATA

| | |
|---|---|
| **Start Winding Resistance** | 10.9 Ω at 25°C |
| **Run Winding Resistance** | 3.59 Ω at 25°C |
| **Locked Rotor Amperage (LRA) 50Hz** | 25 A |

## MECHANICAL DATA

| | |
|---|---|
| **Displacement** | 14.28 $cm^3$ |
| **Oil Charge** | 350 ml |
| **Oil Type** | ESTER |
| **Oil Viscosity** | ISO22 |
| **Weight** | 11.5 Kg |

## ELECTRICAL COMPONENTS

| | |
|---|---|
| **Start Capacitor** | 108-130 µf/330 V |
| **CSR CSIR BOX** | Yes |
| **Overload Protection** | MRA38168-3261 |

## EXTERNAL CHARACTERISTICS

| | |
|---|---|
| **Base Plate** | SMALL |

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

# PERFORMANCE

## TESTED CONDITIONS

| | |
|---|---|
| **Tested Refrigerant** | R-404A |
| **Tested Application** | MBP |
| **Tested Standard** | ASHRAE |
| **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 |
|---|---|---|---|---|---|---|
| 54.4 | -6.7 | 1406 | 1.75 | 805 | 4.17 | 38.36 |

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 |
|---|---|---|---|---|---|
| -20 | 1094 | 1.98 | 551 | 3.12 | 23.74 |
| -15 | 1356 | 2.26 | 601 | 3.30 | 29.64 |
| -10 | 1663 | 2.52 | 660 | 3.50 | 36.55 |
| -5 | 2013 | 2.79 | 720 | 3.72 | 44.57 |
| 0 | 2409 | 3.10 | 777 | 3.95 | 53.80 |
| 5 | 2851 | 3.47 | 822 | 4.21 | 64.34 |
| 10 | 3340 | 3.93 | 849 | 4.49 | 76.28 |

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 |
|---|---|---|---|---|---|
| -20 | 943 | 1.54 | 611 | 3.25 | 22.62 |
| -15 | 1173 | 1.78 | 659 | 3.48 | 28.31 |
| -10 | 1442 | 1.99 | 724 | 3.72 | 35.02 |
| -5 | 1750 | 2.19 | 799 | 3.98 | 42.86 |
| 0 | 2099 | 2.39 | 877 | 4.26 | 51.91 |
| 5 | 2489 | 2.61 | 952 | 4.56 | 62.27 |
| 10 | 2921 | 2.87 | 1016 | 4.89 | 74.06 |

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

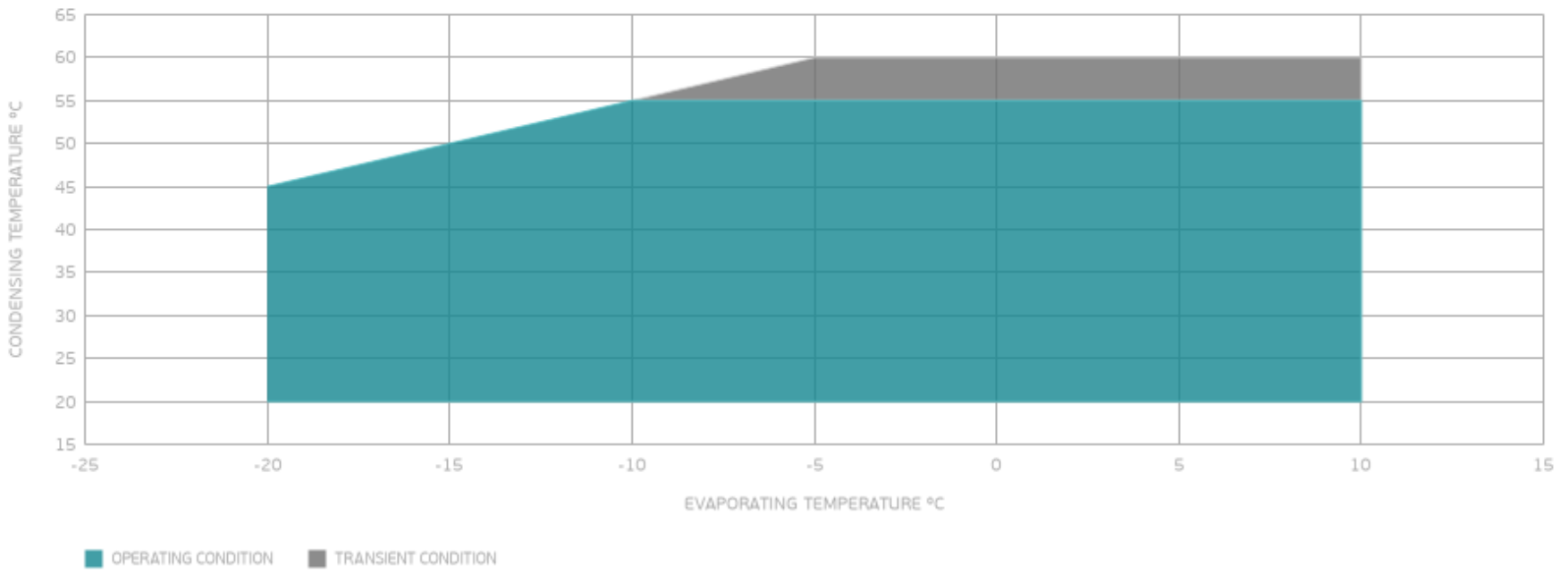
## PERFORMANCE CURVE

### Condensing Temperature 55ºC

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|---|---|---|---|---|---|
| -10 | 1221 | 1.62 | 755 | 3.98 | 33.38 |
| -5 | 1485 | 1.78 | 834 | 4.30 | 40.96 |
| 0 | 1784 | 1.93 | 923 | 4.65 | 49.77 |
| 5 | 2120 | 2.09 | 1016 | 5.02 | 59.91 |
| 10 | 2493 | 2.25 | 1107 | 5.41 | 71.47 |

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 DIMENSIONS