

NEU2178GK



ENGINEERING CODE
9590A51



REFRIGERANT
R-404A



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
LBP



MOTOR TYPE
CSCR



STANDARD
ASHRAE



COOLING CAPACITY
903 W



EFFICIENCY
1.41 W/W



DATA

GENERAL DATA

| | |
|------------------------|-----------------------------------|
| Model | NEU2178GK |
| Type | Hermetic Reciprocating |
| Technology | ON/OFF |
| Compressor Application | LBP |
| Expansion Device | Capillary Tube or Expansion Valve |
| Compressor Cooling | Fan/220 |
| HP | 1 |
| Starting Torque | HST |
| Plant | SLOVAKIA |

ELECTRICAL DATA

| | |
|-------------------------------------|-----------------|
| Start Winding Resistance | 11.03 Ω at 25°C |
| Run Winding Resistance | 5.15 Ω at 25°C |
| Locked Rotor Amperage (LRA) 50Hz | 21 A |
| Rated Load Amperage (LMBP) at 50 Hz | 4.3 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 | RVA6M3C-114 |
| Overload Protection | MSP18LJ-3261 |

PERFORMANCE

TESTED CONDITIONS

| | |
|-------------------------|--------|
| Tested Refrigerant | R-404A |
| 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 | 903 | 1.41 | 642 | 3.01 | 20.89 |

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 | 428 | 1.12 | 381 | 1.81 | 9.81 |
| -35 | 565 | 1.30 | 433 | 2.05 | 13.00 |
| -30 | 733 | 1.49 | 491 | 2.31 | 16.93 |
| -25 | 934 | 1.69 | 554 | 2.59 | 21.65 |
| -20 | 1167 | 1.88 | 619 | 2.90 | 27.20 |
| -15 | 1435 | 2.09 | 687 | 3.24 | 33.64 |
| -10 | 1737 | 2.30 | 756 | 3.60 | 41.00 |

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 | 398 | 1.01 | 393 | 1.86 | 9.10 |
| -35 | 529 | 1.17 | 450 | 2.12 | 12.15 |
| -30 | 692 | 1.34 | 517 | 2.42 | 15.93 |
| -25 | 886 | 1.50 | 592 | 2.74 | 20.50 |
| -20 | 1113 | 1.65 | 674 | 3.10 | 25.90 |
| -15 | 1375 | 1.80 | 762 | 3.49 | 32.17 |
| -10 | 1671 | 1.95 | 855 | 3.92 | 39.36 |

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 | 641 | 1.21 | 527 | 2.51 | 14.73 |
| -25 | 828 | 1.35 | 612 | 2.88 | 19.12 |
| -20 | 1048 | 1.48 | 707 | 3.30 | 24.33 |
| -15 | 1302 | 1.60 | 812 | 3.76 | 30.41 |
| -10 | 1591 | 1.72 | 926 | 4.27 | 37.40 |

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 | | NO | |
| Connector | Internal Diameter | Shape | Material |
| Suction | 8.1 mm | SLANTED 42° | COPPER |
| Discharge | 6.1 mm | STRAIGHT | COPPER |

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

