MODEL
# NT2212GKV

**APPROVALS**

**ENGINEERING CODE**
925CD02

**APPROVED REFRIGERANT**
R-404A

**POWER SUPPLY**
208-230 V 60 Hz

**STANDARD CONDITIONS**
ASHRAE

**APPLICATION**
LBP

**COOLING CAPACITY**
1678 W (LBP)

**EFFICIENCY**
1.43 W/W (LBP)

**MOTOR TYPE**
CSCR

**STARTING TORQUE**
HST

DATA

## General Data

| | |
|---|---|
| **Type** | Hermetic reciprocating |
| **Technology Type** | On-Off |
| **Displacement** | 27.8 cm³ |
| **Compressor Cooling** | Fan/NotControled/230 |
| **Fan Air Flow** | 520 m³/h |
| **Expansion Device** | Capillary Tube or Expansion Valve |
| **Horse Power** | 1 1/2 hp |
| **Max Condensing Pressure Operating** | 24.71 bar |
| **Max Condensing Pressure Peak** | 27.71 bar |
| **Power Supply** | 208-230 V 60 Hz |
| **Evaporating Temperature Range** | -40 °C to -10 °C |

## Electrical Data

| | |
|---|---|
| **Motor type** | CSCR |
| **Starting Torque** | HST |
| **Start Winding Resistance** | 3.3 Ω at 25° C |
| **Run Winding Resistance** | 1.35 Ω at 25° C |

## Mechanical Data

| | |
|---|---|
| **Maximum Recommended Refrigerant Charge** | 800 g |
| **Oil Charge** | 650 ml |
| **Oil Type Configuration** | ESTER |
| **Oil Type Viscosity** | ISO22 |
| **Pressurization** | Dry air charge |
| **Weight** | 18.3 Kg |
| **Free Internal Volume** | 3.75 L |

## Electrical Components

| | Description |
|---|---|
| **CSR / CSIR Box** | YES |
| **Starting Device** | RVA2AM3C-104 |
| **Motor Protection** | 15HM1962-240 |
| **Run Capacitor** | 25 |
| **Start Capacitor** | 130-156 Uf / 330 V |

## External Characteristics

| | |
|---|---|
| **Base Plate** | Universal |
| **Tray Holder** | No |
| **Height** | 250 mm |

| Connector | Internal Diameter | Shape |
|---|---|---|
| **Suction** | 9.6 mm | Vertical/Copper |
| **Discharge** | 6.42 mm | Vertical/Copper |
| **Process** | 6.42 mm | Vertical/Copper |

PERFORMANCE

## Rated Points

| Condensing Temperature | Evaporating Temperature | Cooling Capacity | Power Consumption | Current | Gas Flow Rate | Efficiency |
|---|---|---|---|---|---|---|
| 54.40°C | -23.30°C | 1678 W | 1175 W | 5.63 A | 38.83 kg/h | 1.43 W/W |

Test Condition: ASHRAELBP32, Fan/NotControled/230, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C , Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

## Performance Curve Data

### Condensing Temperature 35°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|---|---|---|---|---|---|
| -40 | 744 | 657 | 3.62 | 17.07 | 1.13 |
| -35 | 1024 | 779 | 4.09 | 23.56 | 1.31 |
| -30 | 1360 | 900 | 4.58 | 31.39 | 1.51 |
| -25 | 1748 | 1021 | 5.08 | 40.52 | 1.71 |
| -20 | 2185 | 1142 | 5.6 | 50.91 | 1.91 |
| -15 | 2668 | 1262 | 6.13 | 62.54 | 2.11 |
| -10 | 3192 | 1383 | 6.68 | 75.36 | 2.31 |

Test Condition: ASHRAELBP32, Fan/NotControled/230, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 45°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|---|---|---|---|---|---|
| -35 | 939 | 790 | 4.12 | 21.57 | 1.19 |
| -30 | 1265 | 932 | 4.68 | 29.16 | 1.36 |
| -25 | 1646 | 1076 | 5.25 | 38.10 | 1.53 |
| -20 | 2079 | 1222 | 5.86 | 48.35 | 1.7 |
| -15 | 2560 | 1371 | 6.49 | 59.89 | 1.87 |
| -10 | 3085 | 1523 | 7.15 | 72.68 | 2.03 |

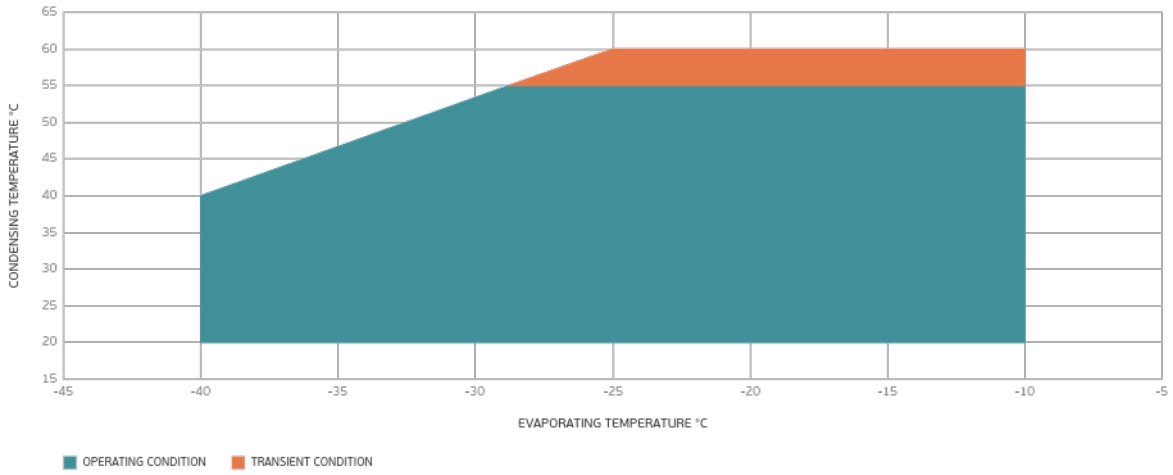
Test Condition: ASHRAELBP32, Fan/NotControled/230, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

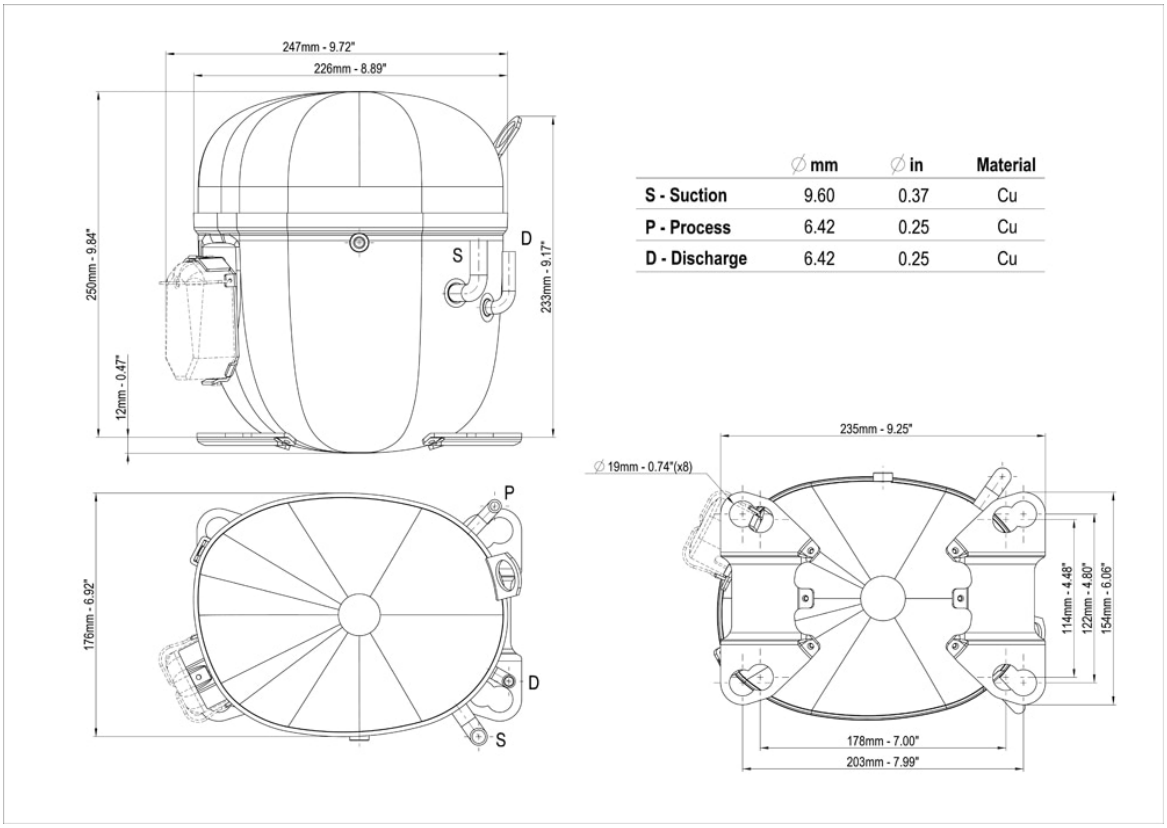
| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|---|---|---|---|---|---|
| -30 | 1168 | 964 | 4.77 | 26.86 | 1.21 |
| -25 | 1538 | 1123 | 5.41 | 35.52 | 1.37 |
| -20 | 1963 | 1286 | 6.09 | 45.55 | 1.53 |
| -15 | 2437 | 1455 | 6.81 | 56.91 | 1.68 |
| -10 | 2959 | 1629 | 7.57 | 69.58 | 1.82 |

Test Condition: ASHRAELBP32, Fan/NotControled/230, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

## Operating Envelope

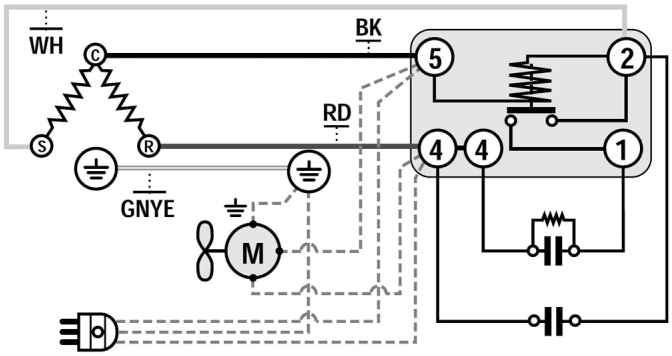



## External Dimensions




| | ∅ mm | ∅ in | Material |
|---|---|---|---|
| **S - Suction** | 9.60 | 0.37 | Cu |
| **P - Process** | 6.42 | 0.25 | Cu |
| **D - Discharge** | 6.42 | 0.25 | Cu |

## Wiring Diagram




## Assembly Instructions