

APPROVALS



ENGINEERING CODE
922EA04

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
807 W

EFFICIENCY
1.43 W/W

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

| | |
|-----------------------------------|-----------------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 17.4 cm ³ |
| Compressor Cooling | Fan |
| Fan Air Flow | 520 m ³ /h |
| Expansion Device | Capillary Tube or Expansion Valve |
| Horse Power | 3/4 hp |
| Max Condensing Pressure Operating | 24.71 bar |
| Max Condensing Pressure Peak | 27.71 bar |
| Power Supply | 220-240 V 50 Hz |
| Evaporating Temperature Range | -40 °C to -10 °C |

Electrical Data

| | |
|--------------------------|-----------------|
| Motor type | CSCR |
| Starting Torque | HST |
| Start Winding Resistance | 10.4 Ω at 25° C |
| Run Winding Resistance | 2.4 Ω at 25° C |

Mechanical Data

| | |
|--|----------------|
| Maximum Recommended Refrigerant Charge | 800 g |
| Oil Charge | 450 ml |
| Oil Type Configuration | Polyolester |
| Oil Type Viscosity | ISO22 |
| Pressurization | Dry air charge |
| Weight | 17.2 Kg |
| Free Internal Volume | 3.3 L |

Electrical Components

| | Description |
|------------------|-------------------------------|
| Starting Device | Potential relay RVA4M3C-109 |
| CSR / CSIR Box | yes |
| Start Capacitor | 88-108 ?F / 330V |
| Motor Protection | External 3/4" MRA38173-3261 |

External Characteristics

| Base Plate | Universal | |
|-------------|-------------------|----------|
| Tray Holder | No | |
| Height | 220 mm | |
| Connector | Internal Diameter | Shape |
| Suction | 9.6 mm | Vertical |
| Discharge | 6.42 mm | Vertical |
| Process | 6.42 mm | Vertical |

PERFORMANCE

Rated Points

| Condensing Temperature | Evaporating Temperature | Cooling Capacity | Power Consumption | Current | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------|---------------|------------|
| 54.40°C | -23.30°C | 807 W | 564 W | 2.59 A | 18.67 kg/h | 1.43 W/W |

Test Condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to ASHRAE guideline polynomial curve.

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 | 353 | 355 | 1.7 | 8.08 | 0.99 |
| -35 | 501 | 410 | 1.91 | 11.53 | 1.22 |
| -30 | 676 | 465 | 2.14 | 15.60 | 1.45 |
| -25 | 876 | 520 | 2.38 | 20.31 | 1.68 |
| -20 | 1103 | 575 | 2.64 | 25.70 | 1.92 |
| -15 | 1356 | 629 | 2.9 | 31.79 | 2.16 |
| -10 | 1636 | 683 | 3.17 | 38.61 | 2.4 |

Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -35 | 441 | 401 | 1.9 | 10.13 | 1.1 |
| -30 | 610 | 465 | 2.16 | 14.06 | 1.31 |
| -25 | 807 | 530 | 2.43 | 18.68 | 1.52 |
| -20 | 1032 | 596 | 2.73 | 24.00 | 1.73 |
| -15 | 1285 | 664 | 3.03 | 30.06 | 1.94 |
| -10 | 1566 | 732 | 3.35 | 36.89 | 2.14 |

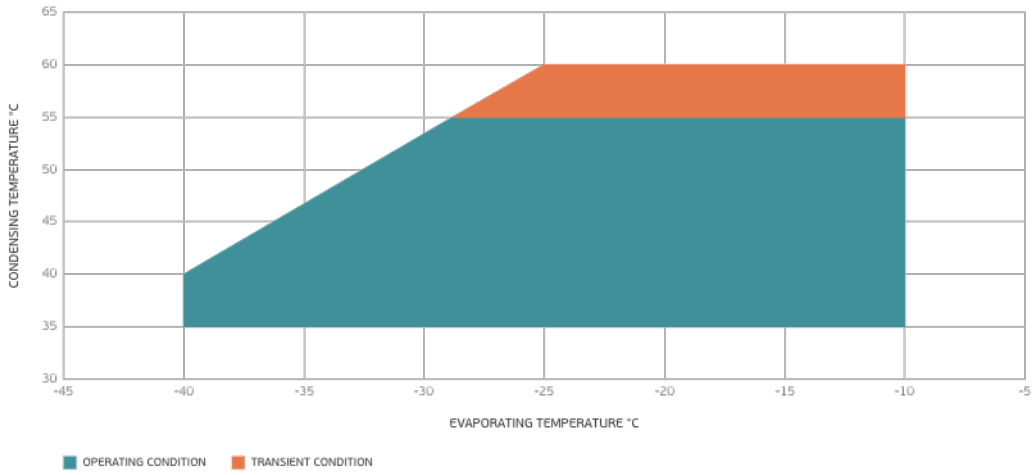
Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -30 | 540 | 462 | 2.17 | 12.42 | 1.17 |
| -25 | 730 | 538 | 2.48 | 16.87 | 1.36 |
| -20 | 951 | 616 | 2.81 | 22.07 | 1.54 |
| -15 | 1201 | 697 | 3.16 | 28.05 | 1.72 |
| -10 | 1481 | 780 | 3.53 | 34.82 | 1.9 |

Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Operating Envelope



External Dimensions

