



APPROVALS



ENGINEERING CODE
842BA04

APPROVED REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
492 W (LBP)

EFFICIENCY
1.22 W/W (LBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

| | |
|-----------------------------------|-----------------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 20.44 cm ³ |
| Compressor Cooling | Fan/NotControlled/220 |
| Fan Air Flow | 520 m ³ /h |
| Expansion Device | Capillary Tube or Expansion Valve |
| Horse Power | 1 hp |
| Max Condensing Pressure Operating | 18.07 bar |
| Max Condensing Pressure Peak | 20.17 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 | 150 g |
| Oil Charge | 450 ml |
| Oil Type Configuration | ESTER |
| Oil Type Viscosity | ISO22 |
| Pressurization | Without dry air charge |
| Weight | 17.2 Kg |
| Free Internal Volume | 3.3 L |

Electrical Components

| | Description |
|------------------|------------------|
| Start Capacitor | 53-64 Uf / 330 V |
| CSR / CSIR Box | YES |
| Starting Device | RVA2AM3C-104 |
| Motor Protection | T0634/G9 |
| Run Capacitor | 12.5 |

External Characteristics

| Base Plate | Universal | |
|-------------|-------------------|-----------------|
| Tray Holder | No | |
| Height | 220 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 | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------------|------------|
| 40.00°C | -35.00°C | 492 W | 405 W | 5.57 kg/h | 1.22 W/W |

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C, Liquid 40°C, Subcooling OK. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -40 | 393 | 351 | 4.30 | 1.12 |
| -35 | 521 | 405 | 5.72 | 1.29 |
| -30 | 682 | 457 | 7.50 | 1.49 |
| -25 | 875 | 508 | 9.66 | 1.72 |
| -20 | 1099 | 557 | 12.18 | 1.97 |
| -15 | 1353 | 607 | 15.07 | 2.23 |
| -10 | 1637 | 655 | 18.34 | 2.5 |

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 45°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -35 | 433 | 411 | 5.21 | 1.05 |
| -30 | 571 | 472 | 6.90 | 1.21 |
| -25 | 738 | 534 | 8.94 | 1.38 |
| -20 | 932 | 595 | 11.35 | 1.57 |
| -15 | 1154 | 657 | 14.11 | 1.76 |
| -10 | 1401 | 719 | 17.24 | 1.95 |

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -30 | 457 | 485 | 6.15 | 0.94 |
| -25 | 598 | 553 | 8.07 | 1.08 |
| -20 | 762 | 623 | 10.34 | 1.22 |
| -15 | 950 | 694 | 12.97 | 1.37 |
| -10 | 1161 | 768 | 15.95 | 1.51 |

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions



