

APPROVALS



ENGINEERING CODE
842PA04

APPROVED REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
MBP

COOLING CAPACITY
1528 W (MBP)

EFFICIENCY
1.88 W/W (MBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

| | |
|-----------------------------------|-----------------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 22.37 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 | -20 °C to 10 °C |

Electrical Data

| | |
|--------------------------|----------------|
| Motor type | CSCR |
| Starting Torque | HST |
| Start Winding Resistance | 8.8 Ω at 25° C |
| Run Winding Resistance | 2.3 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 |
|------------------|------------------|
| Run Capacitor | 20 |
| Start Capacitor | 72-88 Uf / 330 V |
| CSR / CSIR Box | YES |
| Starting Device | RVA3AN3C-575 |
| Motor Protection | T0907/G6 |

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 | Current | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------|---------------|------------|
| 45.00°C | -10.00°C | 1528 W | 812 W | 3.75 A | 18.80 kg/h | 1.88 W/W |

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C, Liquid 45°C, Subcooling OK. 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 |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -20 | 1183 | 638 | 2.94 | 13.11 | 1.85 |
| -15 | 1472 | 701 | 3.21 | 16.40 | 2.1 |
| -10 | 1807 | 759 | 3.48 | 20.24 | 2.38 |
| -5 | 2193 | 812 | 3.73 | 24.72 | 2.7 |
| 0 | 2635 | 859 | 3.97 | 29.91 | 3.07 |
| 5 | 3137 | 901 | 4.2 | 35.93 | 3.48 |
| 10 | 3703 | 939 | 4.41 | 42.84 | 3.94 |

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. 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 |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -20 | 989 | 672 | 3.14 | 12.04 | 1.47 |
| -15 | 1236 | 742 | 3.44 | 15.13 | 1.67 |
| -10 | 1528 | 812 | 3.75 | 18.80 | 1.88 |
| -5 | 1867 | 882 | 4.07 | 23.13 | 2.12 |
| 0 | 2260 | 950 | 4.38 | 28.23 | 2.38 |
| 5 | 2709 | 1018 | 4.69 | 34.17 | 2.66 |
| 10 | 3218 | 1085 | 4.99 | 41.05 | 2.97 |

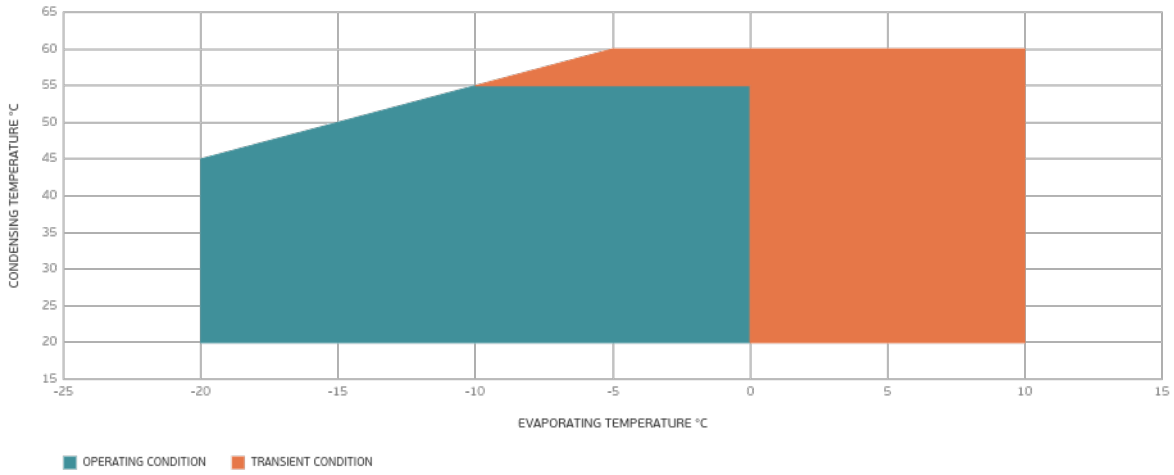
Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

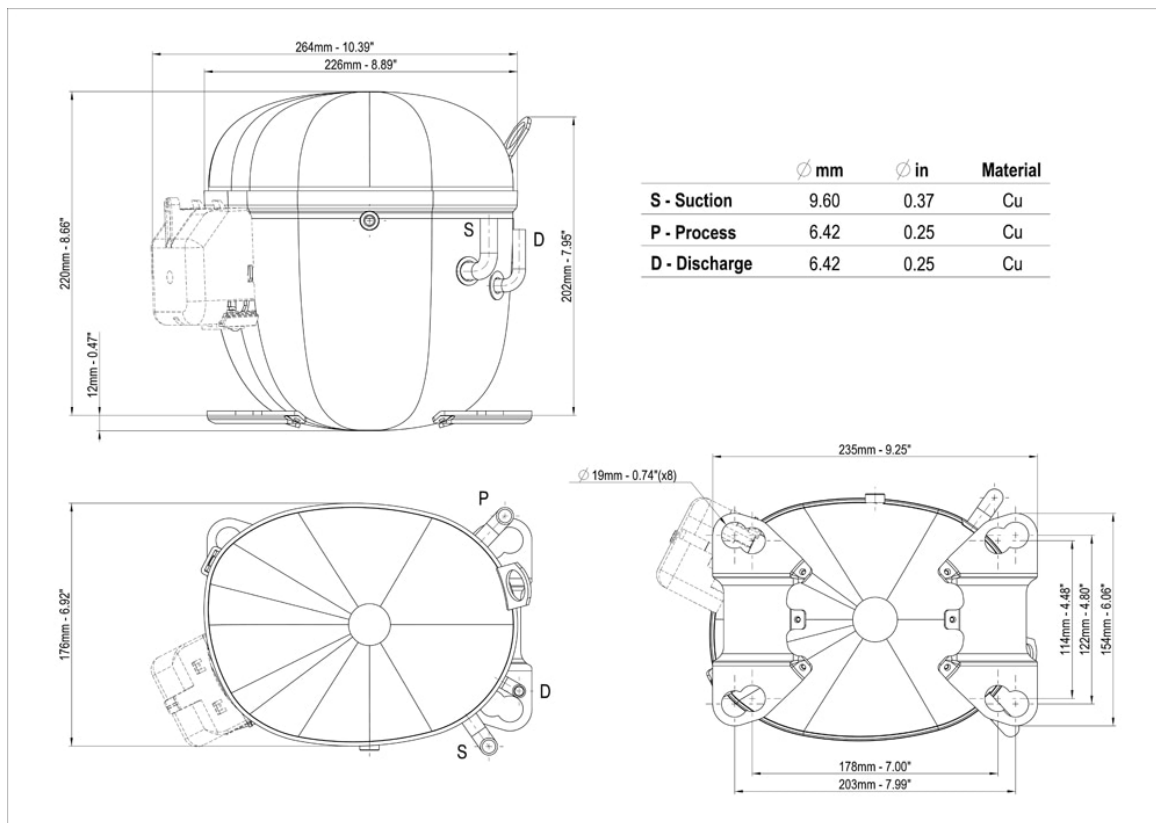
| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -10 | 1273 | 865 | 4.01 | 17.47 | 1.47 |
| -5 | 1561 | 945 | 4.39 | 21.60 | 1.65 |
| 0 | 1898 | 1027 | 4.78 | 26.52 | 1.85 |
| 5 | 2289 | 1114 | 5.18 | 32.33 | 2.05 |
| 10 | 2737 | 1204 | 5.58 | 39.11 | 2.27 |

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

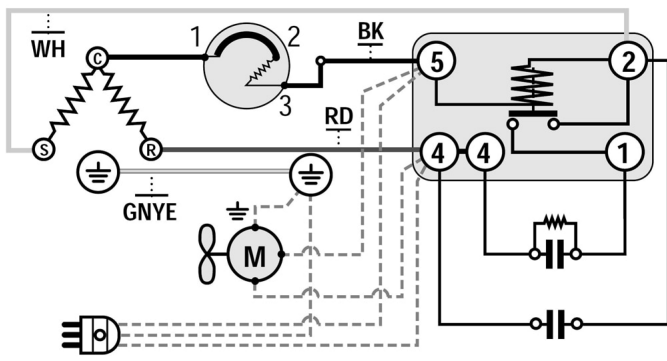
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

