

220-240V 50Hz 1~



GENERAL DATA

Application: MBP
Refrigerant: R290
Compressor Cooling: Fan
Fan air flow: 520 m3/h
Maximum Condensing Pressure - Operating: 18.07 bar
Maximum Condensing Pressure - Peak: 20.16 bar
Type: Hermetic reciprocating
Technology Type: On-Off
Expansion Device: Capillary Tube or Expansion Valve
Packing Quantity: Single - 1 pc
Displacement: 17.4 cm3
Horse power: 3/4 hp

Approvals:  

MECHANICAL DATA

Bore: 34.12 mm
Stroke: 19.03 mm
Oil Charge: 450ml +/-15ml
Free Internal Volume: 3.3 cm3
Maximum Recommended Refrigerant Charge: 800 ml
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressurization: Without dry air charge
Weight: 17 kg

ELECTRICAL DATA

Motor Type: CSR
Starting Torque: HST
Voltage working range at 50 Hz: 198-254 V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 9 Ω (± 10%) at 25°C
Run Winding Resistance: 2.3 Ω (± 10%) at 25°C
Locked Rotor Amperage (RLA): 30 A

MOUNTING ACCESSORIES

| | Description | Code |
|------------------------------------|-------------|---------|
| Terminal Board: | no | - |
| Anchorage: | no | - |
| Capacitor Bracket: | no | - |
| Grommets: | yes | 2221004 |
| Sleeves: | yes | 2222016 |
| Washer: | no | - |
| Pin: | no | - |
| Clip: | no | - |
| Rotolock valve: | no | - |
| Overload Protector Bracket: | yes | 2075299 |
| Cover: | yes | 2075278 |

ELECTRICAL COMPONENTS

| | Component type | Description | Code |
|--------------------------|-----------------|----------------|---------|
| Run Capacitor: | | 15 MFD | 2253310 |
| Starting Device: | Potential relay | RVA4AL3C-649 | 1253015 |
| Motor Protection: | External 3/4" | T0485/G9 | 2321134 |
| Start Capacitor: | | 43-53 MFD 330V | 2252268 |
| CSR / CSIR Box: | yes | | 1272005 |

EXTERNAL CHARACTERISTICS

Base Plate: Universal
Tray Holder: No
Height: 220 mm

| | Internal Diameter (mm) | Material | Shape |
|----------------------------|------------------------|----------|----------|
| Suction Connector | 9.6 | Copper | Vertical |
| Discharge Connector | 6.42 | Copper | Vertical |
| Process Connector | 6.42 | Copper | Vertical |

RATED POINT DATA

| Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (w/W) |
|----------------------|-----------------------|-------------------------|----------------------|------------------|
| ±5% | ±5% | ±5% | ±5% | ±7% |
| 665 | 801 | 4.26 | 0.00 | 0.83 |

Test condition: ASHRAE, Fan, Return Gas 35°C, Subcooling 8.3K, Evaporating: 7.2°C, Condensing: 54°C, Ambient: 35°C

PERFORMANCE CURVE DATA

220V 50Hz

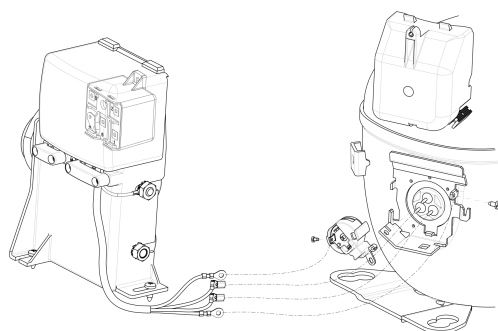
| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (w/W) |
|-----------------------------|------------------------------|----------------------|-----------------------|-------------------------|----------------------|------------------|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 35°C | 10 | 3 276 | 651 | 3.70 | 0.00 | 5.04 |
| | 5 | 2 746 | 635 | 3.63 | 0.00 | 4.33 |
| | 0 | 2 280 | 616 | 3.56 | 0.00 | 3.70 |
| | -5 | 1 876 | 593 | 3.48 | 0.00 | 3.16 |
| | -10 | 1 534 | 568 | 3.39 | 0.00 | 2.70 |
| | -15 | 1 251 | 539 | 3.29 | 0.00 | 2.32 |
| | -20 | 1 028 | 507 | 3.19 | 0.00 | 2.03 |

| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (w/W) |
|-----------------------------|------------------------------|----------------------|-----------------------|-------------------------|----------------------|------------------|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 45°C | 10 | 2 861 | 731 | 4.00 | 0.00 | 3.92 |
| | 5 | 2 398 | 708 | 3.90 | 0.00 | 3.39 |
| | 0 | 1 987 | 681 | 3.80 | 0.00 | 2.92 |
| | -5 | 1 625 | 649 | 3.69 | 0.00 | 2.50 |
| | -10 | 1 312 | 612 | 3.56 | 0.00 | 2.14 |
| | -15 | 1 047 | 570 | 3.42 | 0.00 | 1.84 |
| | -20 | 828 | 524 | 3.27 | 0.00 | 1.58 |

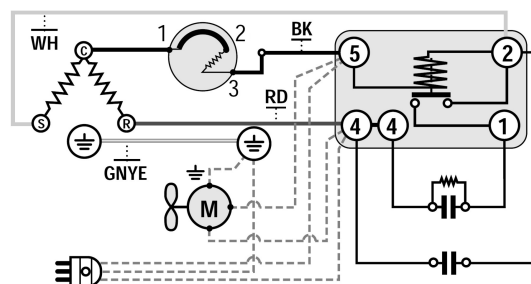
| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (w/W) |
|-----------------------------|------------------------------|----------------------|-----------------------|-------------------------|----------------------|------------------|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 55°C | 10 | 2 453 | 827 | 4.37 | 0.00 | 2.96 |
| | 5 | 2 072 | 797 | 4.24 | 0.00 | 2.60 |
| | 0 | 1 731 | 761 | 4.10 | 0.00 | 2.28 |
| | -5 | 1 426 | 717 | 3.94 | 0.00 | 1.99 |
| | -10 | 1 158 | 668 | 3.76 | 0.00 | 1.73 |

Test condition: ASHRAE, Fan, Return Gas 35°C, Subcooling 8.3K, Evaporating: 7.2°C, Condensing: 54°C, Ambient: 35°C

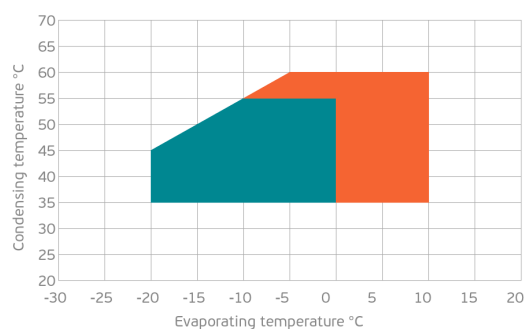
ASSEMBLY INSTRUCTION



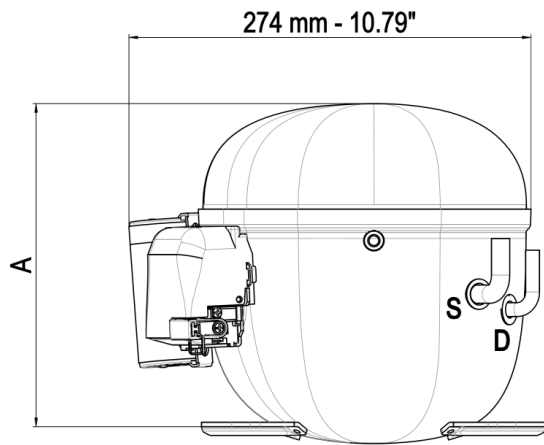
WIRING DIAGRAM



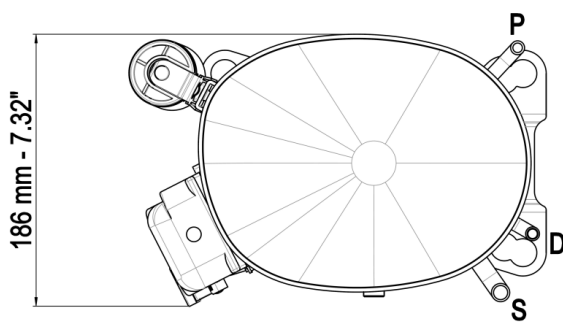
OPERATING ENVELOPE



NOTE: usage of compressors outside of intended working range cannot make use of the warranty, or should be consulted with Technical support.



| | Ø mm | Ø in | material |
|----------------------|-------------|------|----------|
| S - Suction | 9.60 - 9.67 | 3/8 | Cu |
| P - Process | 6.42 - 6.50 | 1/4 | Cu |
| S - Discharge | 6.42 - 6.50 | 1/4 | Cu |



Ø 19 mm - 0.75" (x8)

