




APPROVALS




 **ENGINEERING CODE**
925EA60


 **APPROVED REFRIGERANT**
R-404A

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
MBP

 **COOLING CAPACITY**
2567 W (MBP)

 **EFFICIENCY**
1.95 W/W (MBP)

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

| | |
|-----------------------------------|-----------------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 26.21 cm ³ |
| Compressor Cooling | Fan/NotControlled/220 |
| Fan Air Flow | 520 m ³ /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 | 220-240 V 50 Hz |
| Evaporating Temperature Range | -20 °C to 10 °C |

Electrical Data

| | |
|--------------------------|-----------------|
| Motor type | CSCR |
| Starting Torque | HST |
| Start Winding Resistance | 3.95 Ω at 25° C |
| Run Winding Resistance | 1.47 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 | 18.1 Kg |
| Free Internal Volume | 3.75 L |

Electrical Components

| | Description |
|------------------|-------------------|
| Start Capacitor | 88-108 Uf / 330 V |
| CSR / CSIR Box | YES |
| Run Capacitor | 30 |
| Starting Device | 3ARR3B10AS3 |
| Motor Protection | 15HM1963-247 |

External Characteristics

| Base Plate | Universal | |
|-------------|-------------------|-----------------|
| Tray Holder | No | |
| Height | 250 mm | |
| Connector | Internal Diameter | Shape |
| Suction | 12.77 mm | Slanted/Copper |
| Discharge | 9.6 mm | Vertical/Copper |
| Process | 6.42 mm | Vertical/Copper |

PERFORMANCE

Rated Points

| Condensing Temperature | Evaporating Temperature | Cooling Capacity | Power Consumption | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------------|------------|
| 54.40°C | -6.70°C | 2567 W | 1313 W | 70.14 kg/h | 1.95 W/W |

Test Condition: ASHRAEMBP46, Fan/NotControlled/220, Return Gas 35°C, Evaporation -6.70°C, Condensing 54.40°C, Ambient 35°C, Liquid 46.1°C, Subcooling 8.3K. 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 |
|----------------------------|--------------------|---------|--------------------|----------------|
| -20 | 2003 | 902 | 43.51 | 2.22 |
| -15 | 2482 | 966 | 54.23 | 2.57 |
| -10 | 3062 | 1023 | 67.29 | 2.99 |
| -5 | 3739 | 1072 | 82.77 | 3.49 |
| 0 | 4511 | 1115 | 100.75 | 4.05 |
| 5 | 5375 | 1150 | 121.30 | 4.67 |
| 10 | 6327 | 1179 | 144.50 | 5.36 |

Test Condition: ASHRAEMBP46, Fan/NotControlled/220, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. 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 |
|----------------------------|--------------------|---------|--------------------|----------------|
| -20 | 1757 | 973 | 42.11 | 1.81 |
| -15 | 2169 | 1059 | 52.35 | 2.05 |
| -10 | 2667 | 1142 | 64.81 | 2.34 |
| -5 | 3248 | 1219 | 79.56 | 2.67 |
| 0 | 3908 | 1291 | 96.67 | 3.03 |
| 5 | 4645 | 1360 | 116.22 | 3.42 |
| 10 | 5456 | 1424 | 138.29 | 3.83 |

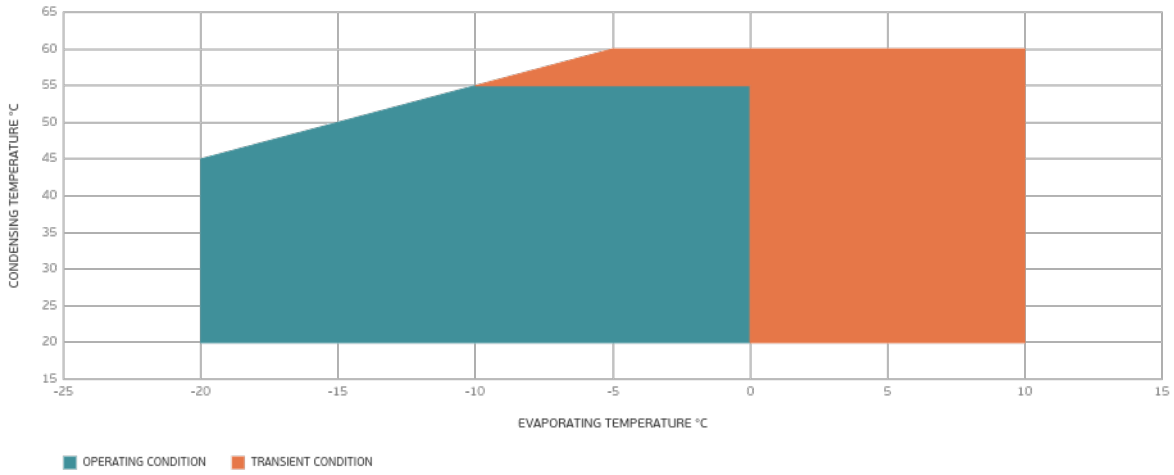
Test Condition: ASHRAEMBP46, Fan/NotControlled/220, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

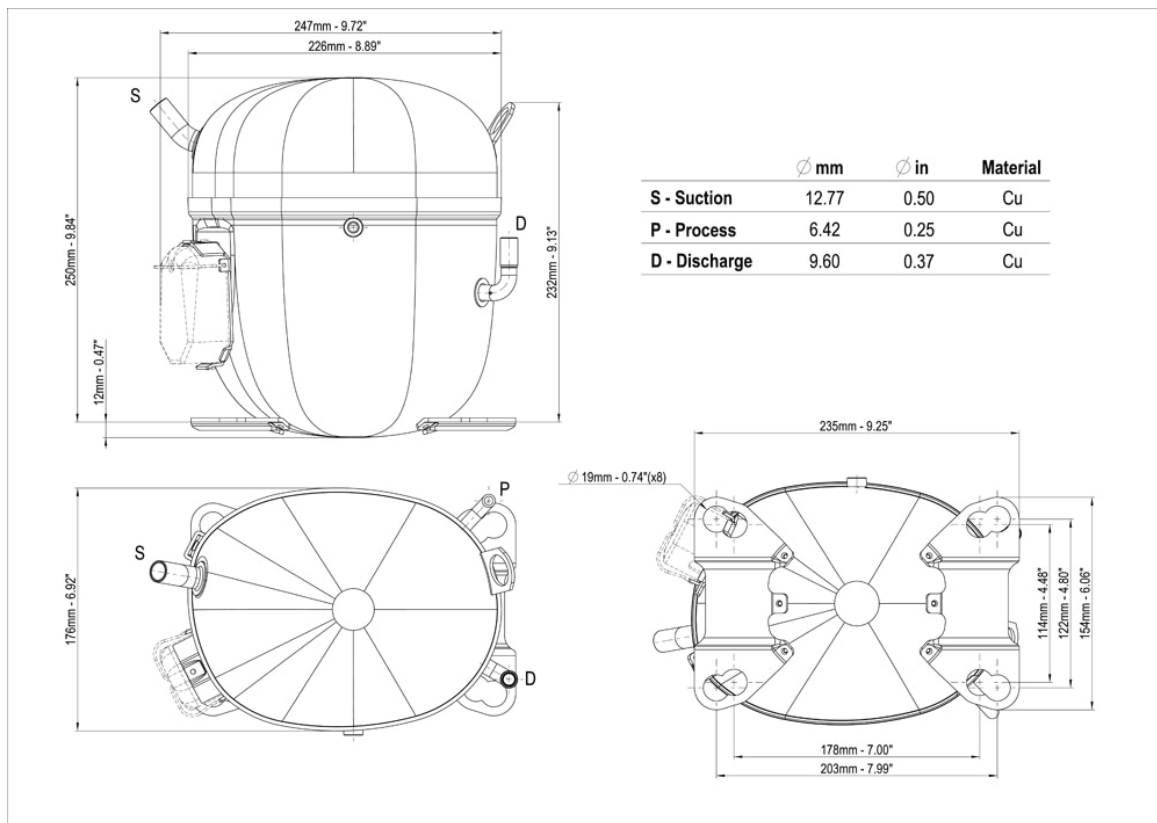
| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -10 | 2231 | 1253 | 60.99 | 1.78 |
| -5 | 2717 | 1351 | 74.95 | 2.01 |
| 0 | 3268 | 1447 | 91.14 | 2.26 |
| 5 | 3880 | 1541 | 109.64 | 2.52 |
| 10 | 4551 | 1634 | 130.52 | 2.79 |

Test Condition: ASHRAEMBP46, Fan/NotControlled/220, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

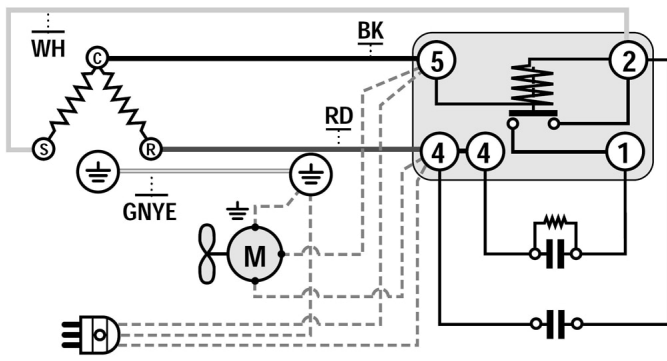
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

