



**APPROVALS**




 **ENGINEERING CODE**  
269AA51


 **APPROVED REFRIGERANT**  
R-134a


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

 **STANDARD CONDITIONS**  
EN12900

 **APPLICATION**  
HBP

 **COOLING CAPACITY**  
1153 W (HBP)

 **EFFICIENCY**  
2 W/W (HBP)

 **MOTOR TYPE**  
CSIR

 **STARTING TORQUE**  
HST

**DATA**

**General Data**

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Type                              | Hermetic reciprocating            |
| Technology Type                   | On-Off                            |
| Displacement                      | 14.28 cm <sup>3</sup>             |
| Compressor Cooling                | Fan/NotControlled/220             |
| Fan Air Flow                      | 520 m <sup>3</sup> /h             |
| Expansion Device                  | Capillary Tube or Expansion Valve |
| Horse Power                       | 1/2 hp                            |
| Max Condensing Pressure Operating | 13.92 bar                         |
| Max Condensing Pressure Peak      | 15.62 bar                         |
| Power Supply                      | 220-240 V 50 Hz                   |
| Evaporating Temperature Range     | -15 °C to 10 °C                   |

**Electrical Data**

|                          |                  |
|--------------------------|------------------|
| Motor type               | CSIR             |
| Starting Torque          | HST              |
| Start Winding Resistance | 27.95 Ω at 25° C |
| Run Winding Resistance   | 5.11 Ω at 25° C  |

## Mechanical Data

|  |                |
|--|----------------|
| Maximum Recommended Refrigerant Charge | 350 g          |
| Oil Charge                             | 350 ml         |
| Oil Type Configuration                 | ESTER          |
| Oil Type Viscosity                     | ISO22          |
| Pressurization                         | Dry air charge |
| Weight                                 | 11.2 Kg        |
| Free Internal Volume                   | 2.1 L          |

## Electrical Components

|                  | Description        |
|------------------|--------------------|
| Start Capacitor  | 72-88 Uf / 330 V   |
| Starting Device  | Relay   MTRP-0012* |
| Motor Protection | T0741/G6           |

## External Characteristics

| Base Plate  | European          |                    |
|-------------|-------------------|--------------------|
| Tray Holder | No                |                    |
| Height      | 206 mm            |                    |
| Connector   | Internal Diameter | Shape              |
| Suction     | 8.1 mm            | Slanted 42°/Copper |
| Discharge   | 6.1 mm            | Straight/Copper    |
| Process     | 6.1 mm            | Slanted 42°/Copper |

## PERFORMANCE

## Rated Points

| Condensing Temperature | Evaporating Temperature | Cooling Capacity | Power Consumption | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------------|------------|
| 50.00°C                | 5.00°C                  | 1153 W           | 576 W             | 29.01 kg/h    | 2 W/W      |

Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C, Liquid 50°C, Subcooling 0K. 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 |
|----------------------------|--------------------|---------|--------------------|----------------|
| -15                        | 600                | 351     | 12.69              | 1.71           |
| -10                        | 752                | 381     | 15.99              | 1.97           |
| -5                         | 935                | 415     | 19.99              | 2.25           |
| 0                          | 1153               | 453     | 24.79              | 2.54           |
| 5                          | 1408               | 496     | 30.52              | 2.84           |
| 10                         | 1705               | 544     | 37.29              | 3.13           |

Test Condition: EN12900HBP, 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 |
|----------------------------|--------------------|---------|--------------------|----------------|
| -15                        | 525                | 370     | 12.18              | 1.42           |
| -10                        | 662                | 410     | 15.43              | 1.61           |
| -5                         | 825                | 453     | 19.35              | 1.82           |
| 0                          | 1018               | 499     | 24.05              | 2.04           |
| 5                          | 1245               | 549     | 29.64              | 2.27           |
| 10                         | 1508               | 602     | 36.25              | 2.5            |

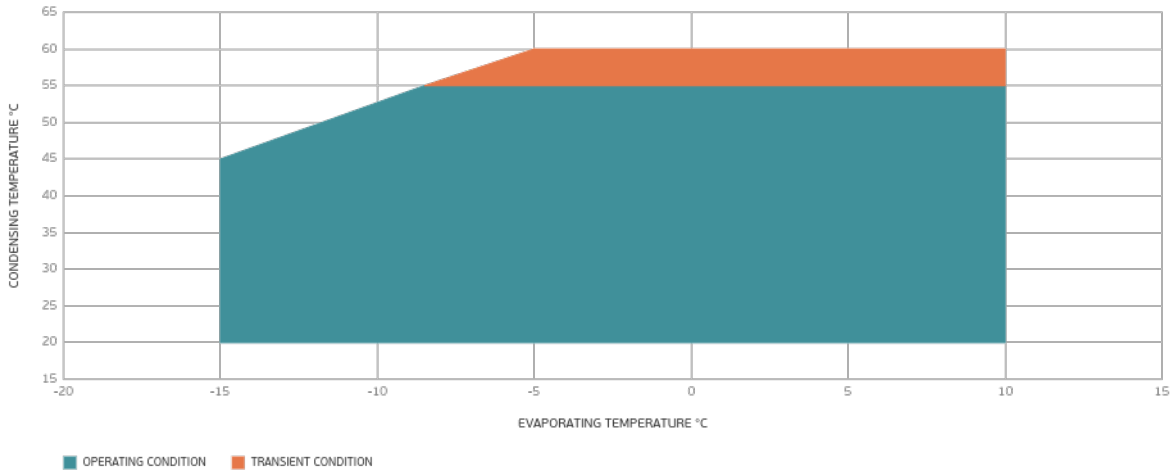
Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

### Condensing Temperature 55°C

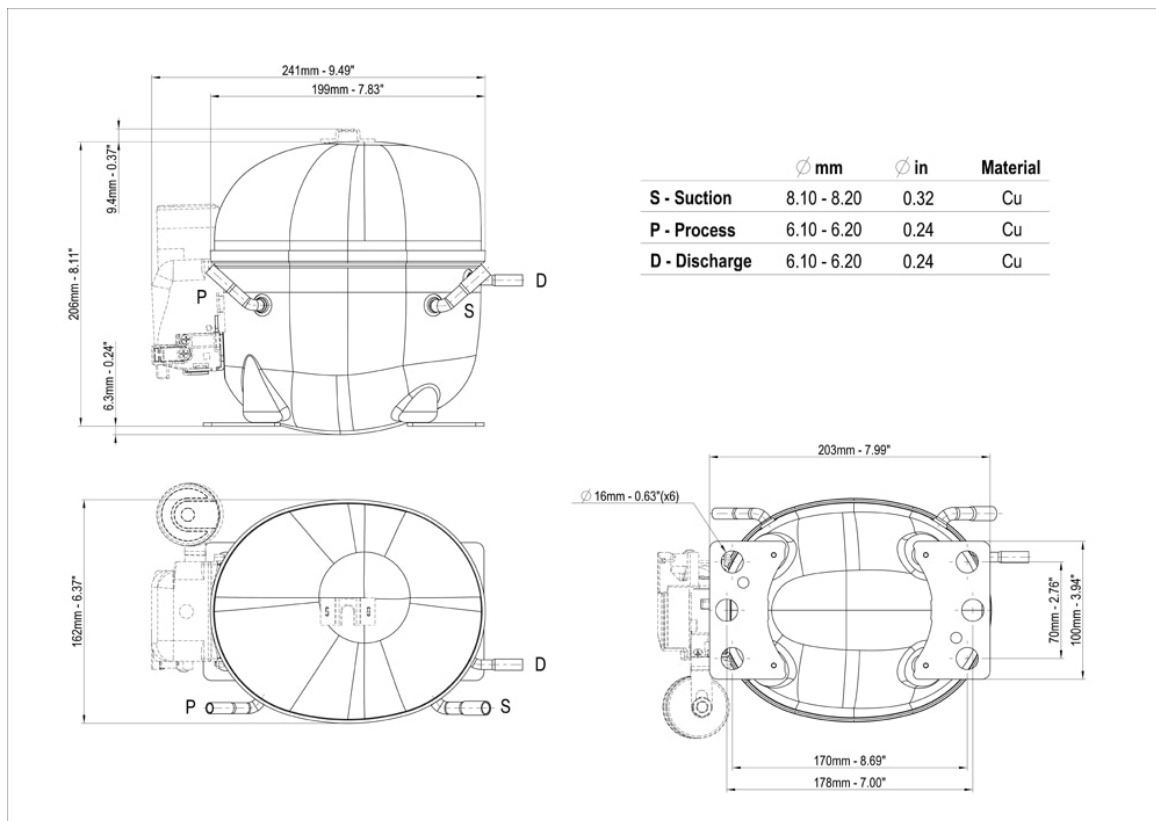
| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -10                        | 561                | 437     | 14.55              | 1.28           |
| -5                         | 705                | 488     | 18.39              | 1.44           |
| 0                          | 874                | 541     | 22.99              | 1.62           |
| 5                          | 1072               | 596     | 28.46              | 1.8            |
| 10                         | 1302               | 654     | 34.91              | 1.99           |

Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

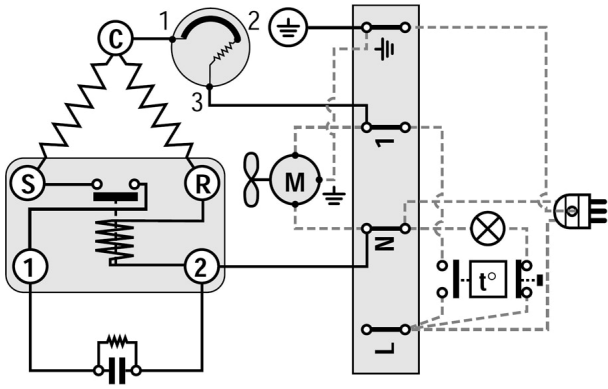
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

