

**APPROVALS**



**ENGINEERING CODE**  
268DB51

**APPROVED REFRIGERANT**  
R-134a

**POWER SUPPLY**  
200-230 V 50 Hz

**STANDARD CONDITIONS**  
EN12900

**APPLICATION**  
HBP

**COOLING CAPACITY**  
739 W (HBP)

**EFFICIENCY**  
2.31 W/W (HBP)

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

**DATA**

**General Data**

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Type                              | Hermetic reciprocating            |
| Technology Type                   | On-Off                            |
| Displacement                      | 8.39 cm <sup>3</sup>              |
| Compressor Cooling                | Fan/NotControlled/208             |
| Fan Air Flow                      | 520 m <sup>3</sup> /h             |
| Expansion Device                  | Capillary Tube or Expansion Valve |
| Horse Power                       | 1/4 hp                            |
| Max Condensing Pressure Operating | 13.92 bar                         |
| Max Condensing Pressure Peak      | 15.62 bar                         |
| Power Supply                      | 200-230 V 50 Hz / 208-230 V 60 Hz |
| Evaporating Temperature Range     | -15 °C to 10 °C                   |

**Electrical Data**

|                          |                 |
|--------------------------|-----------------|
| Motor type               | CSIR            |
| Starting Torque          | HST             |
| Start Winding Resistance | 23.7 Ω at 25° C |
| Run Winding Resistance   | 4.55 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                                 | 10.8 Kg        |
| Free Internal Volume                   | 2.1 L          |

## Electrical Components

|                  | Description      |
|------------------|------------------|
| Start Capacitor  | 53-64 Uf / 330 V |
| Starting Device  | Relay   MTRP-49* |
| Motor Protection | T0169/G6         |

## External Characteristics

| Base Plate  | European          |                    |
|-------------|-------------------|--------------------|
| Tray Holder | No                |                    |
| Height      | 200 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                  | 739 W            | 320 W             | 18.60 kg/h    | 2.31 W/W   |

Test Condition: EN12900HBP, Fan/NotControlled/208, 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                        | 380                | 202     | 8.04               | 1.88           |
| -10                        | 479                | 219     | 10.19              | 2.19           |
| -5                         | 598                | 236     | 12.79              | 2.54           |
| 0                          | 740                | 251     | 15.92              | 2.94           |
| 5                          | 907                | 267     | 19.65              | 3.4            |
| 10                         | 1101               | 281     | 24.07              | 3.92           |

Test Condition: EN12900HBP, Fan/NotControlled/208, 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                        | 331                | 215     | 7.68               | 1.54           |
| -10                        | 419                | 237     | 9.76               | 1.77           |
| -5                         | 524                | 259     | 12.30              | 2.03           |
| 0                          | 650                | 280     | 15.35              | 2.32           |
| 5                          | 799                | 302     | 19.02              | 2.65           |
| 10                         | 972                | 322     | 23.36              | 3.01           |

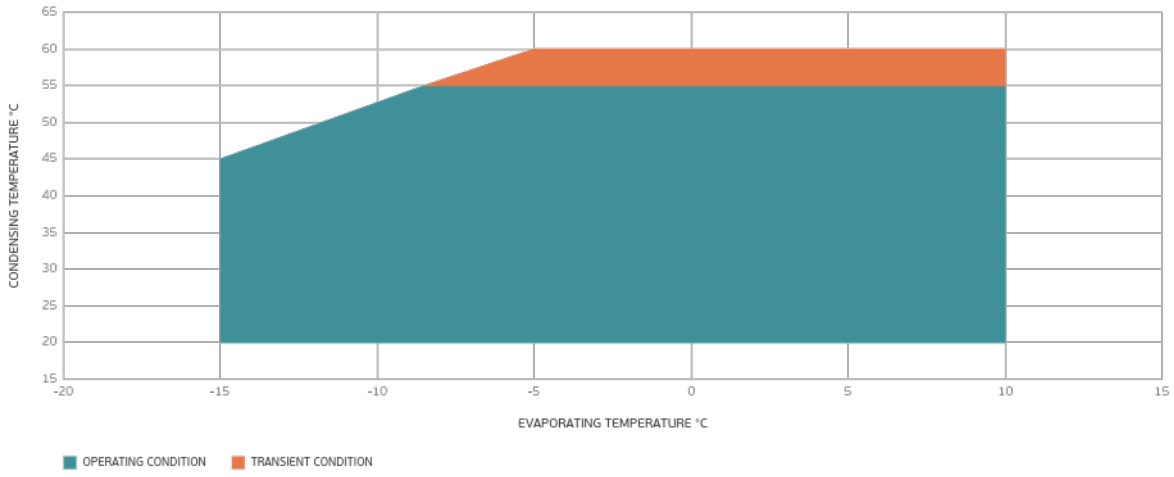
Test Condition: EN12900HBP, Fan/NotControlled/208, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

### Condensing Temperature 55°C

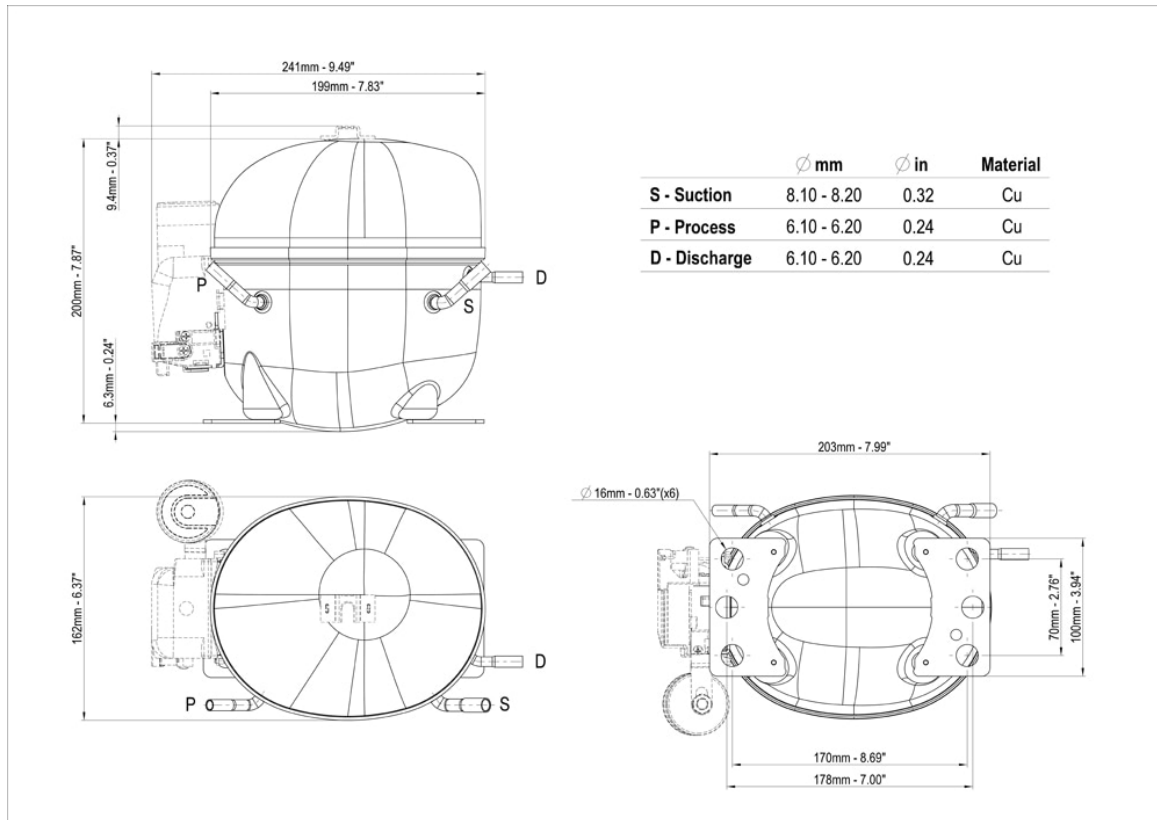
| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -10                        | 357                | 252     | 9.25               | 1.41           |
| -5                         | 448                | 278     | 11.70              | 1.61           |
| 0                          | 558                | 304     | 14.67              | 1.84           |
| 5                          | 687                | 329     | 18.24              | 2.09           |
| 10                         | 839                | 355     | 22.50              | 2.36           |

Test Condition: EN12900HBP, Fan/NotControlled/208, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

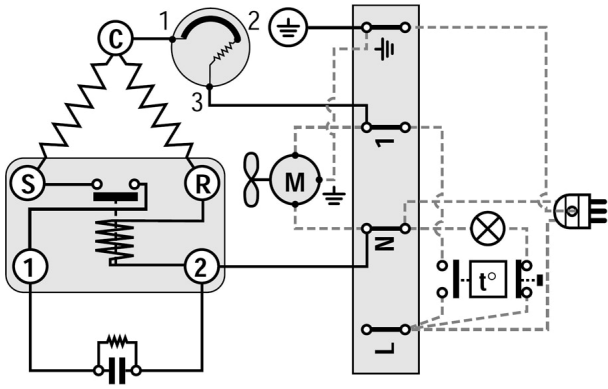
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

