



APPROVALS



 **ENGINEERING CODE**
268AA51

 **APPROVED REFRIGERANT**
R-134a

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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
HBP

 **COOLING CAPACITY**
846 W (HBP)

 **EFFICIENCY**
2.23 W/W (HBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

| | |
|-----------------------------------|-----------------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 9.99 cm ³ |
| Compressor Cooling | Fan/NotControlled/220 |
| Fan Air Flow | 520 m ³ /h |
| Expansion Device | Capillary Tube or Expansion Valve |
| Horse Power | 1/3 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 | 28.84 Ω at 25° C |
| Run Winding Resistance | 6.67 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 Kg |
| Free Internal Volume | 2.1 L |

Electrical Components

| | Description |
|------------------|--------------------|
| Start Capacitor | 53-64 Uf / 330 V |
| Starting Device | Relay MTRP-0029* |
| Motor Protection | T0168/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 | 846 W | 380 W | 21.28 kg/h | 2.23 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 | 436 | 238 | 9.23 | 1.83 |
| -10 | 551 | 257 | 11.72 | 2.14 |
| -5 | 688 | 278 | 14.70 | 2.48 |
| 0 | 850 | 299 | 18.27 | 2.84 |
| 5 | 1040 | 321 | 22.54 | 3.24 |
| 10 | 1263 | 345 | 27.61 | 3.66 |

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 | 374 | 249 | 8.67 | 1.5 |
| -10 | 477 | 276 | 11.11 | 1.72 |
| -5 | 599 | 304 | 14.04 | 1.97 |
| 0 | 744 | 331 | 17.56 | 2.25 |
| 5 | 915 | 359 | 21.78 | 2.55 |
| 10 | 1115 | 388 | 26.80 | 2.87 |

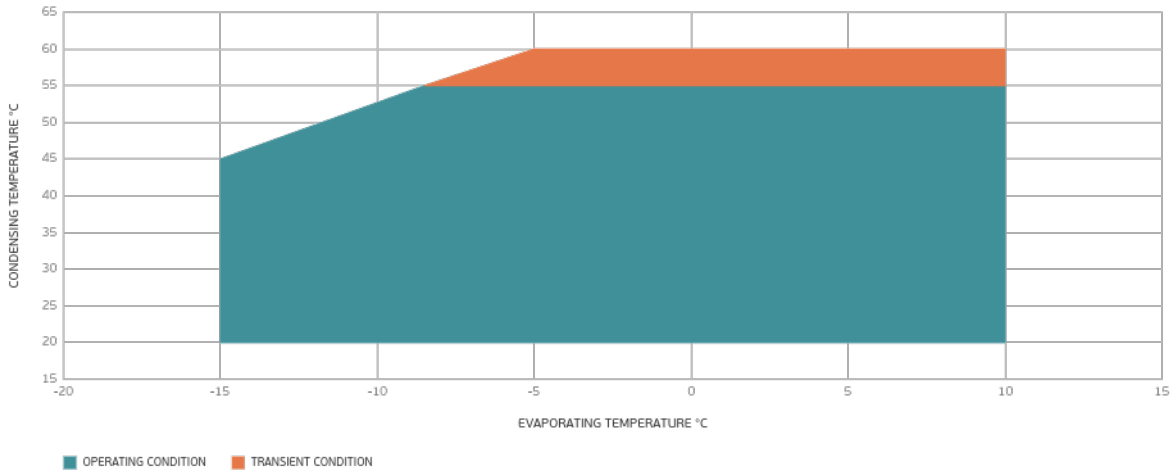
Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -10 | 401 | 292 | 10.40 | 1.37 |
| -5 | 508 | 326 | 13.26 | 1.56 |
| 0 | 636 | 358 | 16.72 | 1.77 |
| 5 | 786 | 391 | 20.87 | 2.01 |
| 10 | 963 | 424 | 25.83 | 2.27 |

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

