





APPROVALS




 **ENGINEERING CODE**
861LA51


 **APPROVED REFRIGERANT**
R-600a


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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
HBP

 **COOLING CAPACITY**
704 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 | 14.28 cm ³ |
| Compressor Cooling | Fan/NotControlled/220 |
| Fan Air Flow | 520 m ³ /h |
| Expansion Device | Capillary Tube or Expansion Valve |
| Horse Power | 1/4 hp |
| Max Condensing Pressure Operating | 6.73 bar |
| Max Condensing Pressure Peak | 7.69 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 | 28.9 Ω at 25° C |
| Run Winding Resistance | 6.8 Ω at 25° C |

Mechanical Data

| | |
|--|------------------------|
| Maximum Recommended Refrigerant Charge | 150 g |
| Oil Charge | 350 ml |
| Oil Type Configuration | MINERAL |
| Oil Type Viscosity | ISO32 |
| Pressurization | Without dry air charge |
| Weight | 10.6 Kg |
| Free Internal Volume | 2.1 L |

Electrical Components

| | Description |
|------------------|------------------------|
| Start Capacitor | 43-53 Uf / 330 V |
| Motor Protection | T0186/G6 |
| Starting Device | Relay MTRPH-0026-59* |

External Characteristics

| Base Plate | European | |
|-------------|-------------------|--------------------|
| Tray Holder | No | |
| Height | 188 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 | 704 W | 305 W | 9.64 kg/h | 2.31 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 | 368 | 196 | 4.32 | 1.87 |
| -10 | 463 | 213 | 5.45 | 2.17 |
| -5 | 573 | 229 | 6.77 | 2.5 |
| 0 | 700 | 244 | 8.30 | 2.88 |
| 5 | 845 | 257 | 10.06 | 3.29 |
| 10 | 1009 | 269 | 12.06 | 3.75 |

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 | 321 | 205 | 4.11 | 1.57 |
| -10 | 406 | 227 | 5.22 | 1.8 |
| -5 | 507 | 248 | 6.53 | 2.04 |
| 0 | 622 | 268 | 8.05 | 2.32 |
| 5 | 754 | 288 | 9.80 | 2.61 |
| 10 | 904 | 308 | 11.80 | 2.94 |

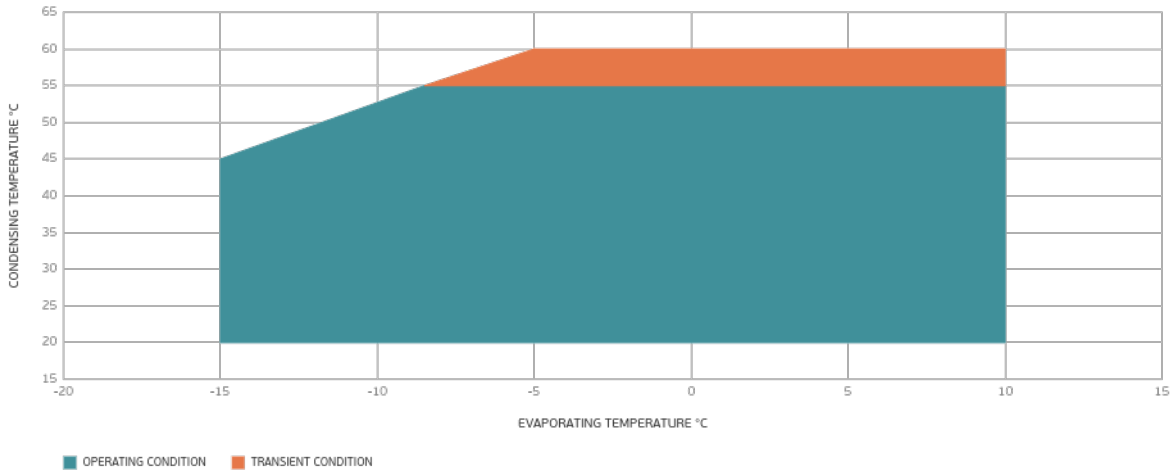
Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

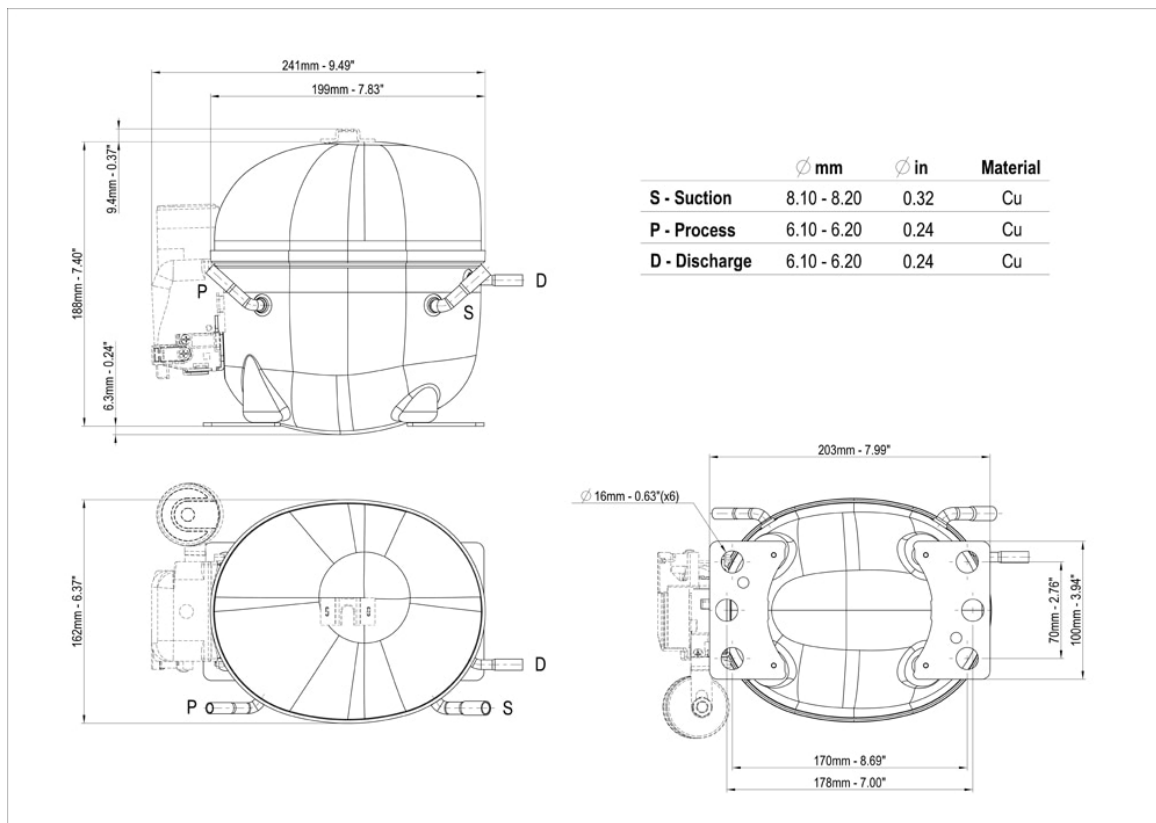
| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -10 | 352 | 241 | 4.99 | 1.46 |
| -5 | 441 | 266 | 6.27 | 1.66 |
| 0 | 544 | 290 | 7.77 | 1.88 |
| 5 | 663 | 314 | 9.51 | 2.11 |
| 10 | 797 | 338 | 11.50 | 2.36 |

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

