

APPROVALS



ENGINEERING CODE
262BA50

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
250 W (LBP)

EFFICIENCY
1.22 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

| | |
|-----------------------------------|-----------------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 9.26 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 | 13.92 bar |
| Max Condensing Pressure Peak | 15.62 bar |
| Power Supply | 220-240 V 50 Hz |
| Evaporating Temperature Range | -30 °C to -5 °C |

Electrical Data

| | |
|--------------------------|-----------------|
| Motor type | CSIR |
| Starting Torque | HST |
| Start Winding Resistance | 21.1 Ω at 25° C |
| Run Winding Resistance | 7.7 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 | 10.95 Kg |
| Free Internal Volume | 2.1 L |

Electrical Components

| | Description |
|------------------|--------------------|
| Start Capacitor | 72-88 Uf / 330 V |
| Motor Protection | T0057/G5 |
| Starting Device | Relay MTRP-0027* |

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 | Current | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------|---------------|------------|
| 54.40°C | -23.30°C | 250 W | 205 W | 1.67 A | 4.86 kg/h | 1.22 W/W |

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Performance Curve Data

Condensing Temperature 35°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -30 | 196 | 166 | 1.56 | 3.80 | 1.18 |
| -25 | 261 | 186 | 1.63 | 5.05 | 1.4 |
| -20 | 339 | 208 | 1.7 | 6.58 | 1.63 |
| -15 | 432 | 231 | 1.77 | 8.43 | 1.87 |
| -10 | 542 | 255 | 1.85 | 10.60 | 2.13 |
| -5 | 669 | 280 | 1.93 | 13.14 | 2.39 |

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -30 | 183 | 167 | 1.58 | 3.53 | 1.09 |
| -25 | 245 | 190 | 1.64 | 4.74 | 1.28 |
| -20 | 321 | 216 | 1.71 | 6.24 | 1.49 |
| -15 | 413 | 244 | 1.79 | 8.04 | 1.69 |
| -10 | 521 | 273 | 1.89 | 10.19 | 1.91 |
| -5 | 646 | 304 | 2 | 12.69 | 2.13 |

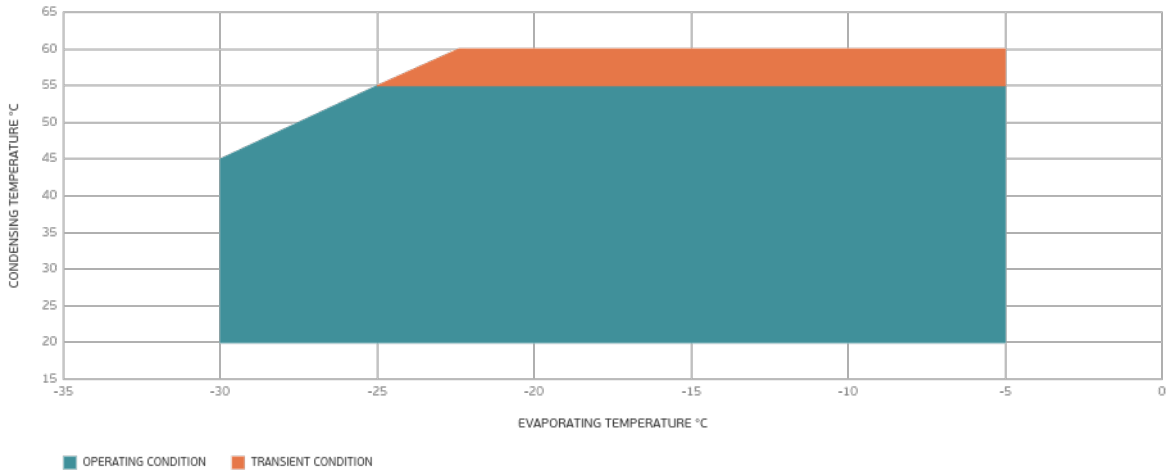
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

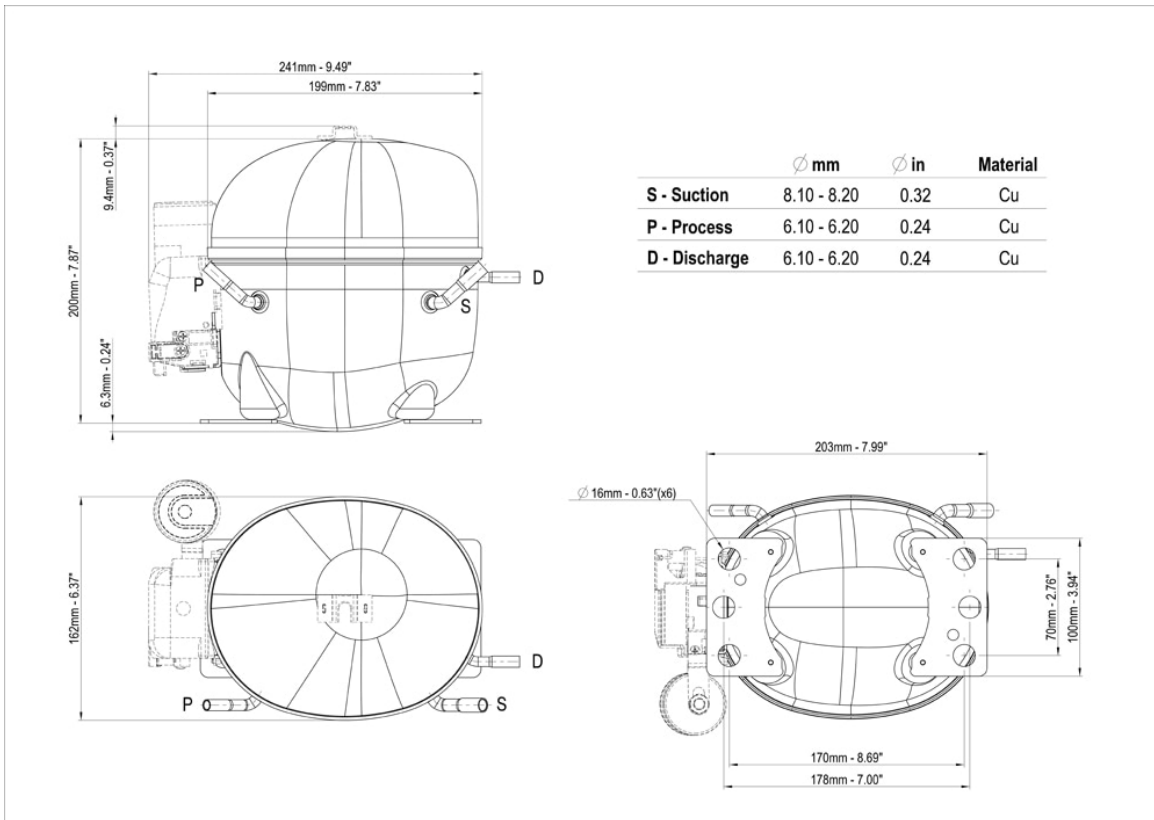
| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -25 | 227 | 195 | 1.65 | 4.39 | 1.16 |
| -20 | 300 | 223 | 1.72 | 5.84 | 1.35 |
| -15 | 390 | 254 | 1.81 | 7.60 | 1.54 |
| -10 | 496 | 286 | 1.93 | 9.69 | 1.73 |
| -5 | 619 | 321 | 2.07 | 12.15 | 1.92 |

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

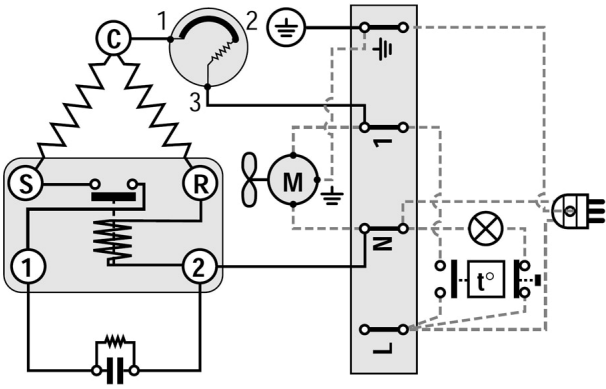
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

