



APPROVALS



ENGINEERING CODE
700GA27

APPROVED REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
53 W (LBP)

EFFICIENCY
1.59 W/W (LBP)

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

| | |
|-----------------------------------|--------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 5.96 cm ³ |
| Compressor Cooling | Static/NotControlled/220 |
| Expansion Device | Capillary Tube |
| Horse Power | 1/7 hp |
| Max Condensing Pressure Operating | 8.69 bar |
| Max Condensing Pressure Peak | 10.88 bar |
| Power Supply | 220-240 V 50 Hz |
| Evaporating Temperature Range | -35 °C to -10 °C |

Electrical Data

| | |
|--------------------------|-----------------|
| Motor type | RSCR |
| Starting Torque | LST |
| Start Winding Resistance | 23.9 Ω at 25° C |
| Run Winding Resistance | 42.5 Ω at 25° C |

Mechanical Data

| | |
|--|--------------|
| Maximum Recommended Refrigerant Charge | 150 g |
| Oil Charge | 150 ml |
| Oil Type Configuration | ALQUILB |
| Oil Type Viscosity | ISO5 |
| Pressurization | Light vacuum |
| Weight | 7.3 Kg |
| Free Internal Volume | 1.5 L |

Electrical Components

| | Description |
|------------------|-------------------|
| Run Capacitor | 2.5 |
| Starting Device | MI2021X V230 |
| Motor Protection | AX24BNXX T0223/07 |

External Characteristics

| Base Plate | European | |
|-------------|-------------------|-------------------------------------|
| Tray Holder | Yes | |
| Height | 166 mm | |
| Connector | Internal Diameter | Shape |
| Suction | 6.1 mm | Slanted 42° up + 45° to Back/Copper |
| Discharge | 5.1 mm | Slanted 42° up + 45° to Back/Copper |
| Process | 6.1 mm | Slanted 45° up + 45° to Back/Copper |

PERFORMANCE

Rated Points

| Condensing Temperature | Evaporating Temperature | Cooling Capacity | Power Consumption | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------------|------------|
| 40.00°C | -35.00°C | 53 W | 33 W | 0.64 kg/h | 1.59 W/W |

Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C, Liquid 40°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 |
|----------------------------|--------------------|---------|--------------------|----------------|
| -35 | 59 | 33 | 0.69 | 1.79 |
| -30 | 78 | 43 | 0.92 | 1.84 |
| -25 | 102 | 49 | 1.19 | 2.07 |
| -20 | 130 | 54 | 1.52 | 2.41 |
| -15 | 163 | 58 | 1.91 | 2.81 |
| -10 | 202 | 63 | 2.38 | 3.22 |

Test Condition: EN12900LBP, Static/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 |
|----------------------------|--------------------|---------|--------------------|----------------|
| -35 | 47 | 33 | 0.59 | 1.41 |
| -30 | 64 | 43 | 0.81 | 1.47 |
| -25 | 85 | 51 | 1.08 | 1.66 |
| -20 | 110 | 57 | 1.40 | 1.92 |
| -15 | 140 | 63 | 1.79 | 2.22 |
| -10 | 175 | 70 | 2.25 | 2.51 |

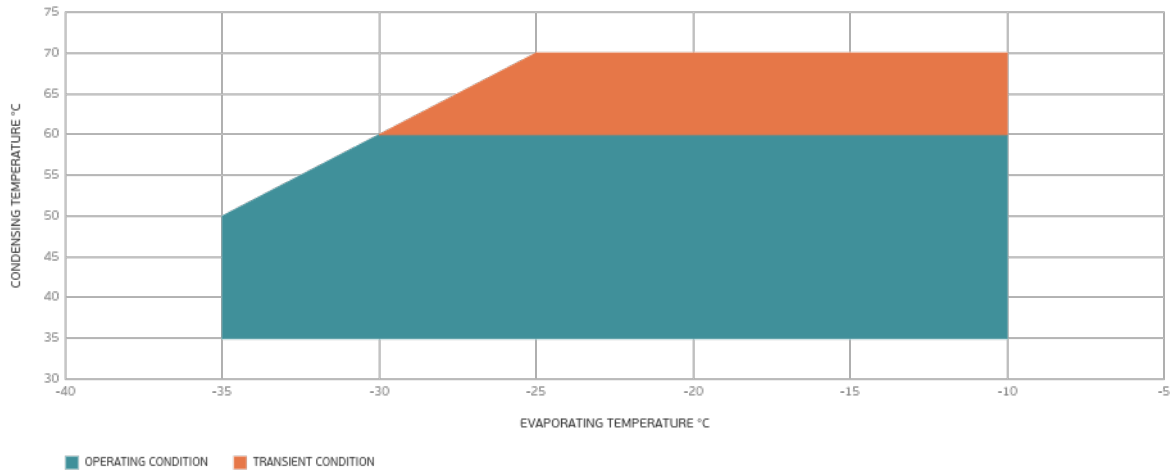
Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

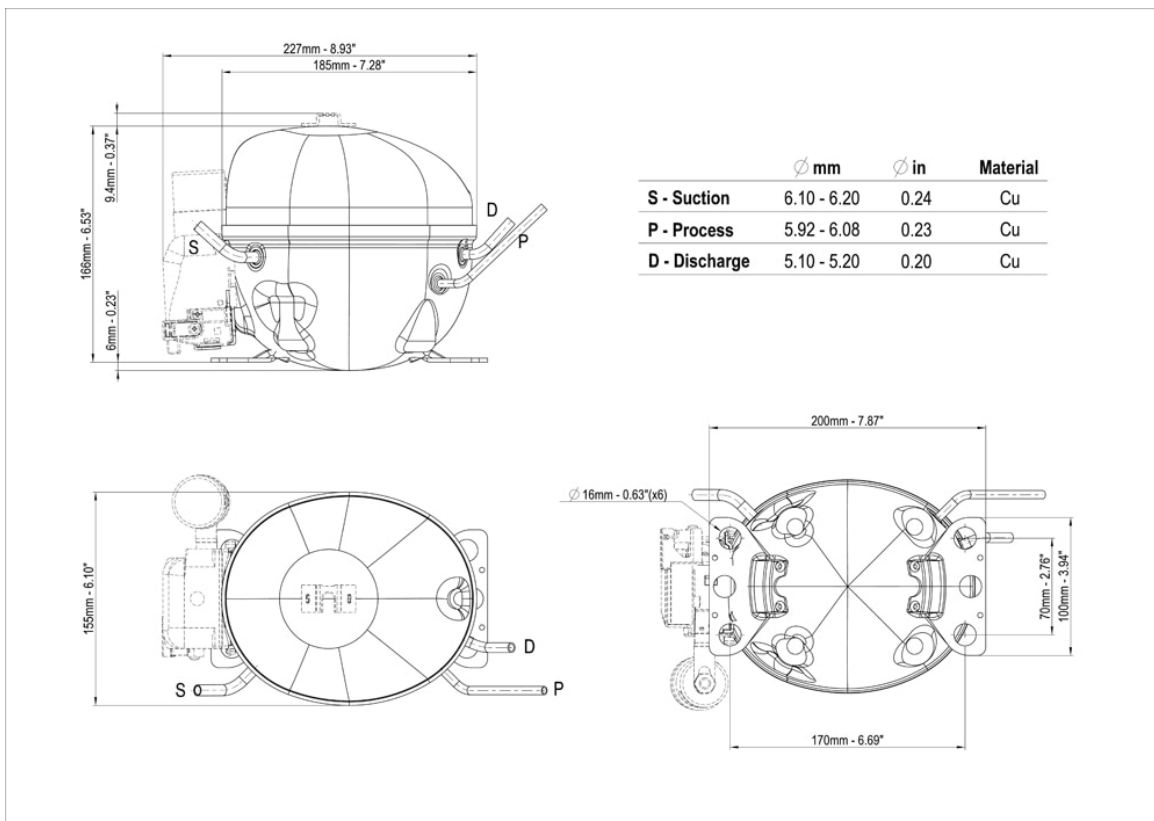
| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -35 | 34 | 31 | 0.48 | 1.08 |
| -30 | 49 | 42 | 0.69 | 1.15 |
| -25 | 67 | 51 | 0.95 | 1.32 |
| -20 | 89 | 58 | 1.26 | 1.53 |
| -15 | 116 | 66 | 1.64 | 1.76 |
| -10 | 147 | 74 | 2.09 | 1.98 |

Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

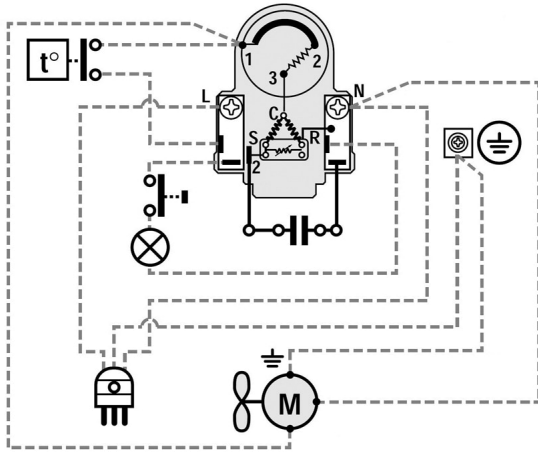
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

