





APPROVALS




 **ENGINEERING CODE**
710GA77


 **APPROVED REFRIGERANT**
R-600a


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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
LBP

 **COOLING CAPACITY**
131 W (LBP)

 **EFFICIENCY**
1.79 W/W (LBP)

 **MOTOR TYPE**
RSCR

 **STARTING TORQUE**
LST

DATA

General Data

| | |
|-----------------------------------|--------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 7.96 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 | 20.2 Ω at 25° C |
| Run Winding Resistance | 30.8 Ω at 25° C |

Mechanical Data

| | |
|--|--------------|
| Maximum Recommended Refrigerant Charge | 150 g |
| Oil Charge | 150 ml |
| Oil Type Configuration | ALQUILB |
| Oil Type Viscosity | ISO2 |
| Pressurization | Light vacuum |
| Weight | 7.1 Kg |
| Free Internal Volume | 1.5 L |

Electrical Components

| | Description |
|------------------|------------------------------------|
| Run Capacitor | 4 |
| Starting Device | TSD2-220V TSD2-220V1.2 TSD2-D-220V |
| Motor Protection | 4TM197JDBYY-73 CP4TMC190K61A5 |

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 | 4.94 mm | Slanted 0° 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 |
|------------------------|-------------------------|------------------|-------------------|---------------|------------|
| 54.40°C | -23.30°C | 131 W | 73 W | 1.41 kg/h | 1.79 W/W |

Test Condition: ASHRAELBP32, Static/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 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 | 72 | 47 | 0.78 | 1.55 |
| -30 | 101 | 55 | 1.08 | 1.82 |
| -25 | 136 | 64 | 1.46 | 2.13 |
| -20 | 178 | 72 | 1.91 | 2.48 |
| -15 | 226 | 79 | 2.44 | 2.84 |
| -10 | 281 | 87 | 3.03 | 3.23 |

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. 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 | 66 | 48 | 0.71 | 1.38 |
| -30 | 93 | 58 | 1.00 | 1.61 |
| -25 | 127 | 68 | 1.37 | 1.88 |
| -20 | 168 | 78 | 1.81 | 2.16 |
| -15 | 215 | 88 | 2.32 | 2.46 |
| -10 | 270 | 98 | 2.92 | 2.75 |

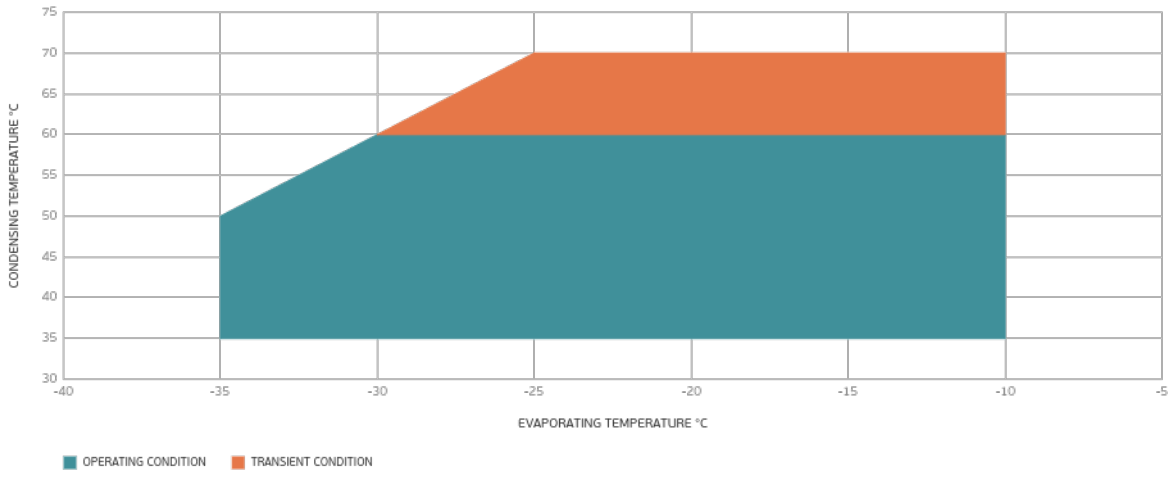
Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data are an indication of performance based simulation.

Condensing Temperature 55°C

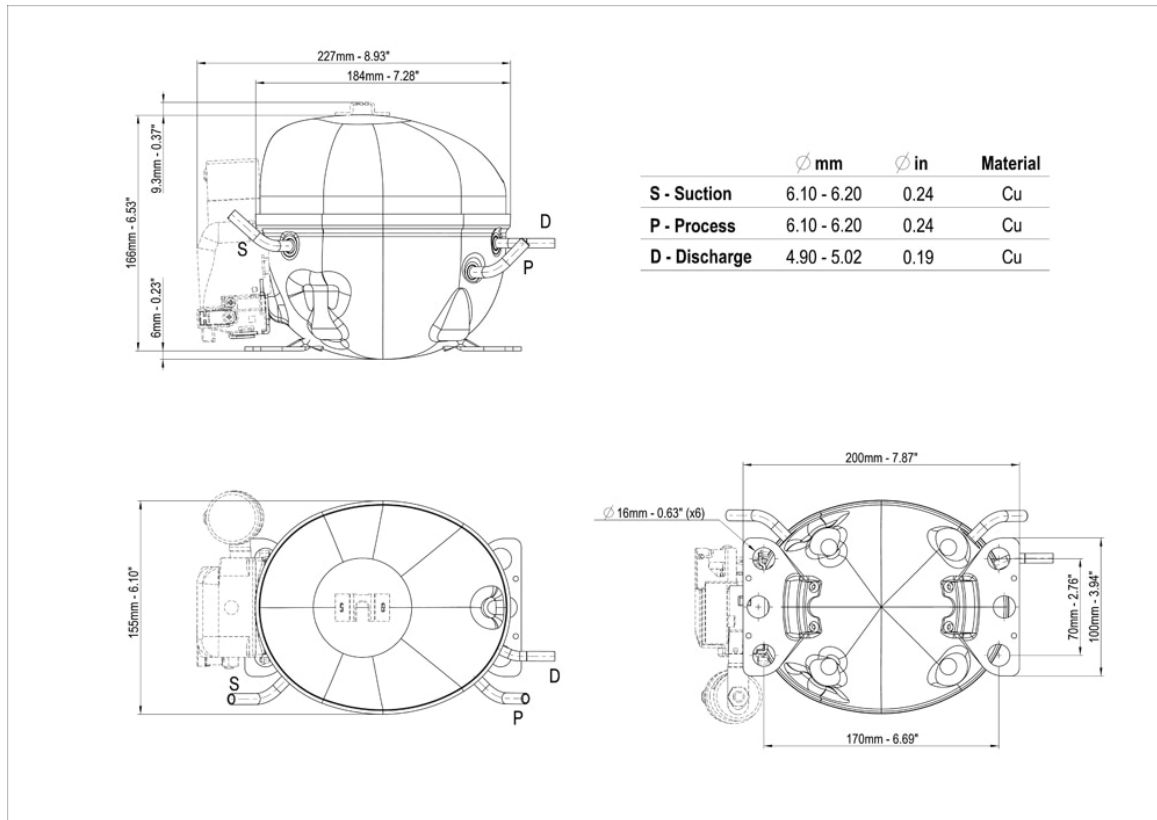
| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|--------------------|----------------|
| -35 | 60 | 47 | 0.64 | 1.27 |
| -30 | 85 | 58 | 0.91 | 1.47 |
| -25 | 118 | 69 | 1.26 | 1.7 |
| -20 | 157 | 81 | 1.69 | 1.94 |
| -15 | 204 | 93 | 2.20 | 2.19 |
| -10 | 257 | 106 | 2.78 | 2.42 |

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data are an indication of performance based simulation.

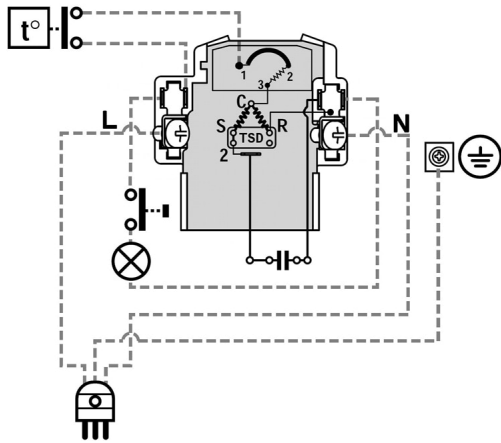
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

