



**APPROVALS**



**ENGINEERING CODE**  
912CA67

**APPROVED REFRIGERANT**  
R-404A

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

**STANDARD CONDITIONS**  
ASHRAE

**APPLICATION**  
LBP

**COOLING CAPACITY**  
305 W (LBP)

**EFFICIENCY**  
1.39 W/W (LBP)

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

**DATA**

**General Data**

|                               |                                   |
|-------------------------------|-----------------------------------|
| Type                          | Hermetic reciprocating            |
| Technology Type               | On-Off                            |
| Displacement                  | 5.19 cm <sup>3</sup>              |
| Compressor Cooling            | Fan/NotControlled/220             |
| Expansion Device              | Capillary Tube or Expansion Valve |
| Horse Power                   | 1/3 hp                            |
| Power Supply                  | 220-240 V 50 Hz                   |
| Evaporating Temperature Range | -40 °C to -10 °C                  |

**Electrical Data**

|                 |      |
|-----------------|------|
| Motor type      | CSIR |
| Starting Torque | HST  |

**Mechanical Data**

|                        |        |
|------------------------|--------|
| Oil Charge             | 180 ml |
| Oil Type Configuration | ESTER  |
| Oil Type Viscosity     | ISO22  |
| Weight                 | 7.8 Kg |

## Electrical Components

|                  | Description      |
|------------------|------------------|
| Start Capacitor  | 43-53 Uf / 330 V |
| Starting Device  | Relay   MTRP-34* |
| Motor Protection | T0827/G6         |

## External Characteristics

| Tray Holder | Yes               |                    |
|-------------|-------------------|--------------------|
| Connector   | Internal Diameter | Shape              |
| Suction     | 6.1 mm            | Slanted 42°/Copper |
| Discharge   | 4.94 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                | 305 W            | 220 W             | 1.38 A  | 7.06 kg/h     | 1.39 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 |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -40                        | 150                | 135     | 1.14      | 3.44               | 1.11           |
| -35                        | 195                | 152     | 1.18      | 4.48               | 1.28           |
| -30                        | 251                | 170     | 1.23      | 5.79               | 1.47           |
| -25                        | 318                | 189     | 1.28      | 7.37               | 1.68           |
| -20                        | 397                | 208     | 1.34      | 9.25               | 1.91           |
| -15                        | 489                | 227     | 1.4       | 11.45              | 2.15           |
| -10                        | 593                | 245     | 1.47      | 13.99              | 2.42           |

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 |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -40                        | 142                | 139     | 1.14      | 3.25               | 1.02           |
| -35                        | 183                | 158     | 1.19      | 4.21               | 1.16           |
| -30                        | 236                | 179     | 1.25      | 5.44               | 1.32           |
| -25                        | 301                | 201     | 1.31      | 6.95               | 1.49           |
| -20                        | 377                | 225     | 1.39      | 8.77               | 1.68           |
| -15                        | 467                | 249     | 1.47      | 10.91              | 1.87           |
| -10                        | 569                | 273     | 1.56      | 13.40              | 2.08           |

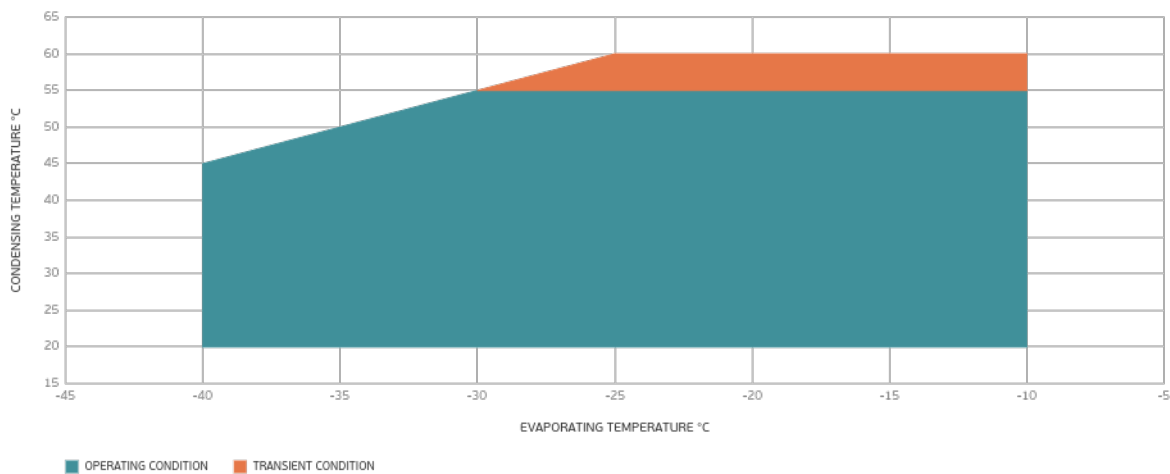
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

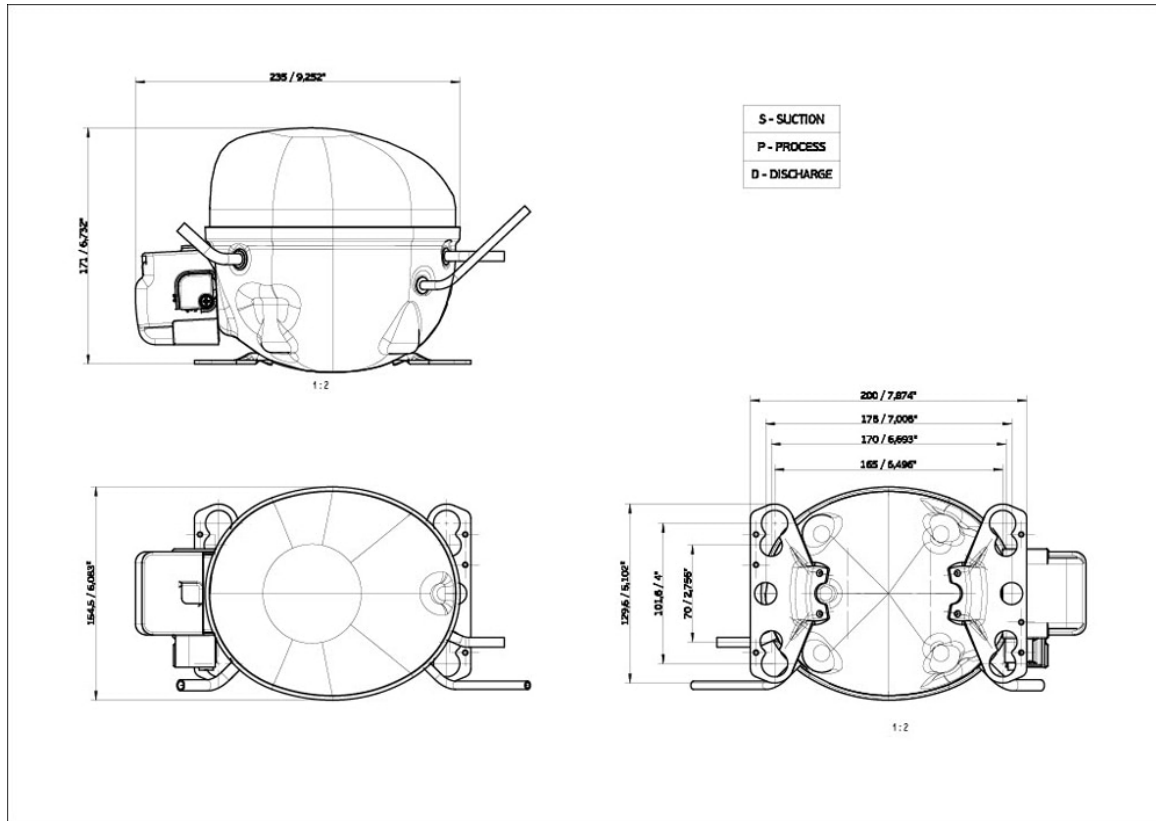
| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -40                        | 134                | 142     | 1.13      | 3.07               | 0.95           |
| -35                        | 172                | 162     | 1.19      | 3.93               | 1.06           |
| -30                        | 220                | 185     | 1.27      | 5.07               | 1.19           |
| -25                        | 281                | 210     | 1.35      | 6.50               | 1.34           |
| -20                        | 355                | 237     | 1.45      | 8.23               | 1.49           |
| -15                        | 441                | 266     | 1.55      | 10.29              | 1.66           |
| -10                        | 540                | 296     | 1.66      | 12.71              | 1.83           |

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

SM28-4

