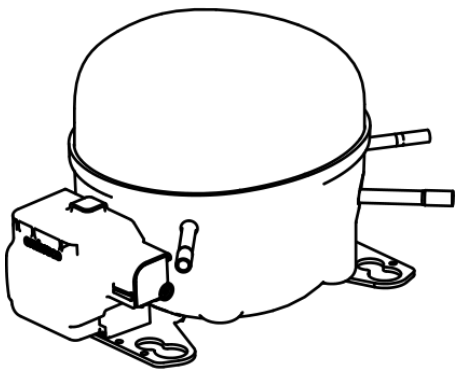


EMT6144U



ENGINEERING CODE  
513306232



REFRIGERANT  
R-290



POWER SUPPLY  
220-240 V 50 Hz



APPLICATION  
MBP



MOTOR TYPE  
CSIR



STANDARD  
EN12900



COOLING CAPACITY  
336 W



EFFICIENCY  
1.95 W/W

DATA

GENERAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Model                  | EMT6144U                          |
| Type                   | Hermetic Reciprocating            |
| Technology             | ON/OFF                            |
| Compressor Application | MBP                               |
| Expansion Device       | Capillary Tube or Expansion Valve |
| Compressor Cooling     | Static/220                        |
| HP                     | 1/4-                              |
| Starting Torque        | HST                               |
| Plant                  | BRAZIL                            |

ELECTRICAL DATA

|                          |                |
|--------------------------|----------------|
| Start Winding Resistance | 21.1 Ω at 25°C |
| Run Winding Resistance   | 14.4 Ω at 25°C |

MECHANICAL DATA

|               |         |
|---------------|---------|
| Displacement  | 4.5 cm³ |
| Oil Charge    | 180 ml  |
| Oil Type      | ESTER   |
| Oil Viscosity | ISO22   |
| Weight        | 7.8 Kg  |

ELECTRICAL COMPONENTS

|                             |                         |
|-----------------------------|-------------------------|
| Start Capacitor             | 43-53 µf/330 V          |
| CSR CSIR BOX                | No                      |
| Starting Device Type        | RELAY                   |
| Starting Device Description | MTRP-0015* QL2-3.76 *** |
| Overload Protection         | DRB180K52AXF            |

PERFORMANCE

TESTED CONDITIONS

|                         |         |
|-------------------------|---------|
| Tested Refrigerant      | R-290   |
| Tested Application      | MBP     |
| Tested Standard         | EN12900 |
| Tested Cooling          | Static  |
| Tested Voltage          | 220 V   |
| Max Refrigerant Charge  | 150 g   |
| Refrigerant Temperature | Dew     |

RATED POINTS

| Condensing Temperature °C | Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|---------------------------|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| 45                        | -10                        | 336                | 1.95           | 172                 | -         | 4.13               |

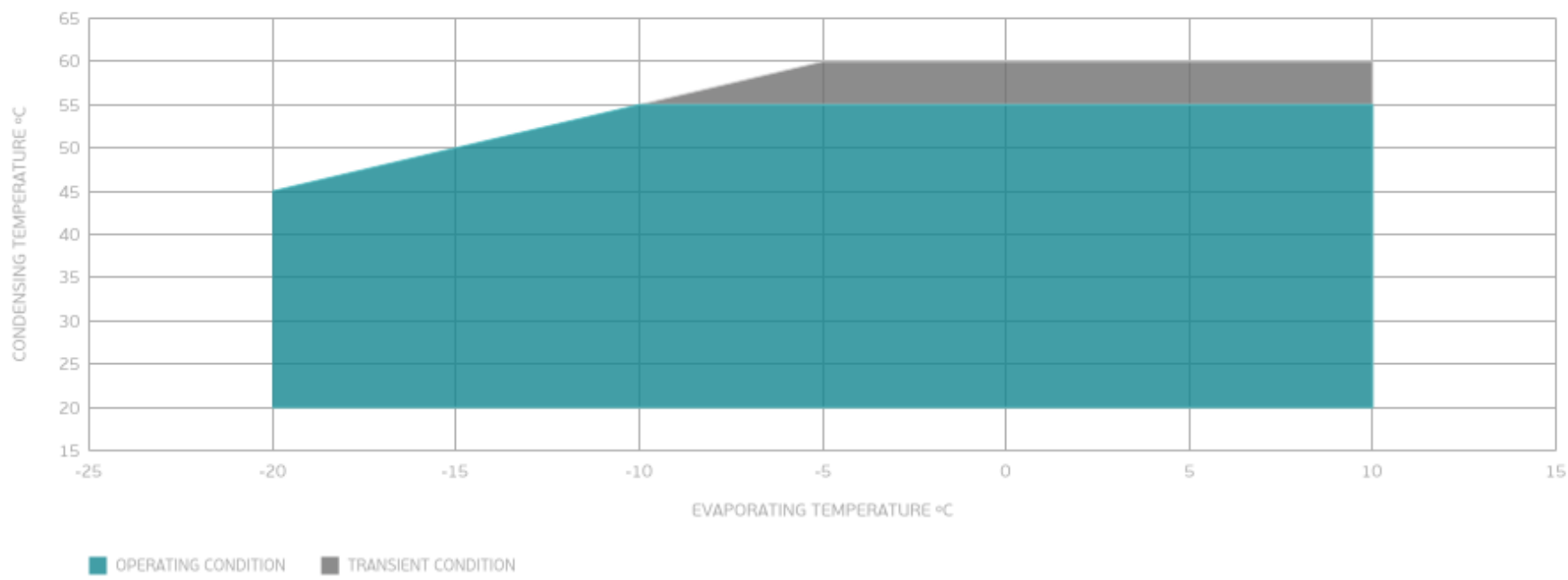
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

| PERFORMANCE CURVE                                                                                         |                    |                |                     | Condensing Temperature 35°C |                    |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------------------------|--------------------|
| Evaporating Temperature °C                                                                                | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A                   | Gas Flow Rate kg/h |
| -20                                                                                                       | 258                | 1.89           | 137                 | -                           | 2.86               |
| -15                                                                                                       | 318                | 2.19           | 145                 | -                           | 3.54               |
| -10                                                                                                       | 388                | 2.53           | 153                 | -                           | 4.35               |
| -5                                                                                                        | 471                | 2.93           | 161                 | -                           | 5.31               |
| 0                                                                                                         | 566                | 3.40           | 166                 | -                           | 6.42               |
| 5                                                                                                         | 673                | 4.00           | 168                 | -                           | 7.71               |
| 10                                                                                                        | 794                | 4.80           | 166                 | -                           | 9.19               |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |                             |                    |

| PERFORMANCE CURVE                                                                                         |                    |                |                     | Condensing Temperature 45°C |                    |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------------------------|--------------------|
| Evaporating Temperature °C                                                                                | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A                   | Gas Flow Rate kg/h |
| -20                                                                                                       | 223                | 1.47           | 151                 | -                           | 2.71               |
| -15                                                                                                       | 274                | 1.71           | 161                 | -                           | 3.36               |
| -10                                                                                                       | 336                | 1.95           | 172                 | -                           | 4.13               |
| -5                                                                                                        | 407                | 2.22           | 184                 | -                           | 5.05               |
| 0                                                                                                         | 491                | 2.52           | 195                 | -                           | 6.13               |
| 5                                                                                                         | 585                | 2.87           | 204                 | -                           | 7.39               |
| 10                                                                                                        | 693                | 3.30           | 210                 | -                           | 8.84               |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |                             |                    |

| PERFORMANCE CURVE                                                                                         |                    |                |                     | Condensing Temperature 55°C |                    |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------------------------|--------------------|
| Evaporating Temperature °C                                                                                | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A                   | Gas Flow Rate kg/h |
| -10                                                                                                       | 283                | 1.55           | 183                 | -                           | 3.89               |
| -5                                                                                                        | 344                | 1.74           | 198                 | -                           | 4.77               |
| 0                                                                                                         | 415                | 1.95           | 213                 | -                           | 5.80               |
| 5                                                                                                         | 497                | 2.18           | 228                 | -                           | 7.02               |
| 10                                                                                                        | 590                | 2.44           | 241                 | -                           | 8.42               |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |                             |                    |

ENVELOPE



External

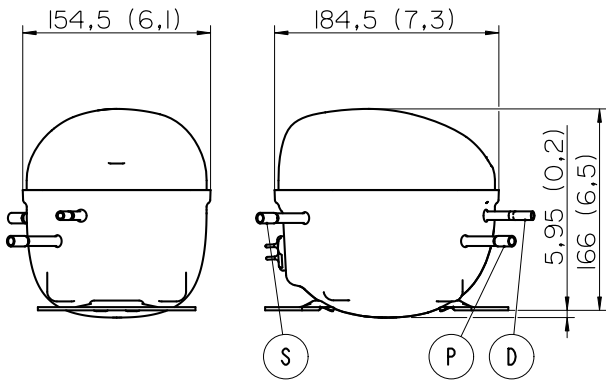
EXTERNAL CHARACTERISTICS

|             |            |
|-------------|------------|
| Base Plate  | SMALL EUEM |
| Tray Holder | YES        |

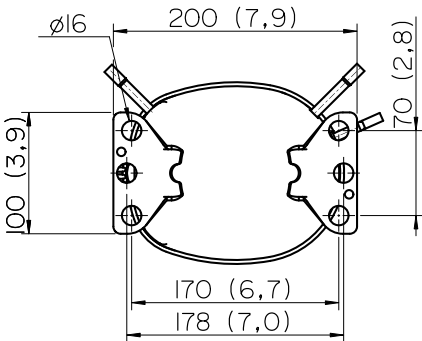
| Connector | Internal Diameter | Shape                          | Material |
|-----------|-------------------|--------------------------------|----------|
| Suction   | 6.1 mm            | SLANTED 42° UP + 45° TO BACK   | COPPER   |
| Discharge | 4.94 mm           | SLANTED PARALLET BP+24°TO BACK | COPPER   |
| Process   | 6.1 mm            | SLANTED 45° UP + 45° TO BACK   | COPPER   |

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

