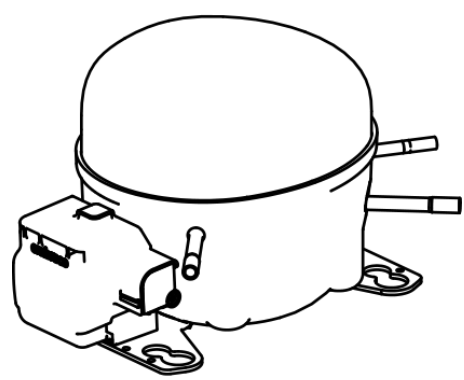


EMT6144Z



ENGINEERING CODE  
194PA67



REFRIGERANT  
R-134a



POWER SUPPLY  
220-240 V 50 Hz



APPLICATION  
HBP



MOTOR TYPE  
CSIR



STANDARD  
EN12900



COOLING CAPACITY  
508 W



EFFICIENCY  
2.44 W/W

DATA

GENERAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Model                  | EMT6144Z                          |
| Type                   | Hermetic Reciprocating            |
| Technology             | ON/OFF                            |
| Compressor Application | HBP                               |
| Expansion Device       | Capillary Tube or Expansion Valve |
| Compressor Cooling     | Fan/220                           |
| HP                     | 1/5                               |
| Starting Torque        | HST                               |
| Plant                  | ITALY                             |

ELECTRICAL DATA

|                                  |       |
|----------------------------------|-------|
| Start Winding Resistance         | null  |
| Run Winding Resistance           | null  |
| Locked Rotor Amperage (LRA) 50Hz | 8.5 A |

MECHANICAL DATA

|               |          |
|---------------|----------|
| Displacement  | 5.19 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-34*       |
| Overload Protection         | T0827/G6       |

PERFORMANCE

TESTED CONDITIONS

|                         |         |
|-------------------------|---------|
| Tested Refrigerant      | R-134a  |
| Tested Application      | HBP     |
| Tested Standard         | EN12900 |
| Tested Cooling          | Fan     |
| Tested Voltage          | 220 V   |
| Max Refrigerant Charge  | 250 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 |
|-----------------------------------------------------------------------------------------------------------|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| 50                                                                                                        | 5                          | 508                | 2.44           | 208                 | -         | 12.74              |
| 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 |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -15                                                                                                       | 267                | 2.06           | 130                 | -         | 5.64               |
| -10                                                                                                       | 335                | 2.37           | 141                 | -         | 7.14               |
| -5                                                                                                        | 417                | 2.70           | 154                 | -         | 8.91               |
| 0                                                                                                         | 511                | 3.08           | 166                 | -         | 10.99              |
| 5                                                                                                         | 620                | 3.56           | 174                 | -         | 13.43              |
| 10                                                                                                        | 744                | 4.20           | 177                 | -         | 16.27              |
| 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 |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -15                        | 230                | 1.63           | 141                 | -         | 5.33               |
| -10                        | 291                | 1.90           | 153                 | -         | 6.78               |
| -5                         | 363                | 2.16           | 168                 | -         | 8.52               |
| 0                          | 448                | 2.42           | 185                 | -         | 10.58              |
| 5                          | 546                | 2.72           | 200                 | -         | 12.99              |
| 10                         | 657                | 3.08           | 213                 | -         | 15.81              |

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

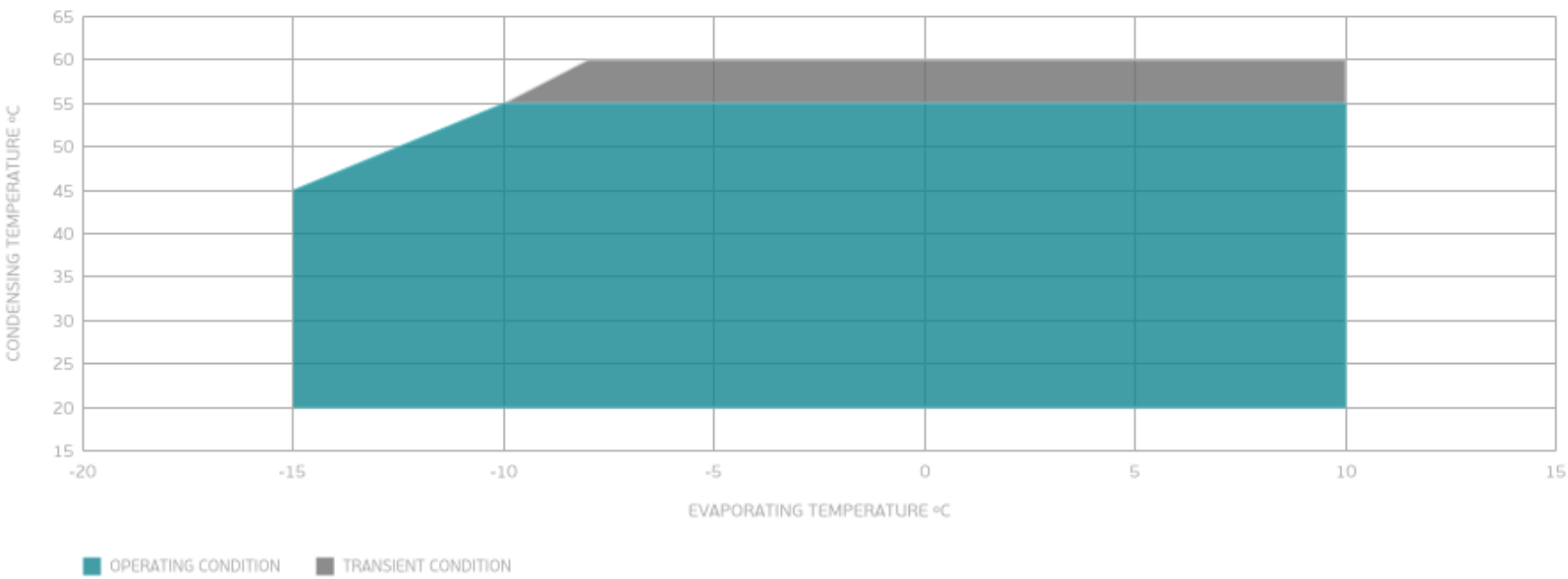
PERFORMANCE CURVE

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -10                        | 247                | 1.55           | 160                 | -         | 6.41               |
| -5                         | 310                | 1.78           | 175                 | -         | 8.10               |
| 0                          | 384                | 1.99           | 193                 | -         | 10.11              |
| 5                          | 470                | 2.21           | 213                 | -         | 12.48              |
| 10                         | 569                | 2.45           | 233                 | -         | 15.26              |

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

ENVELOPE



External

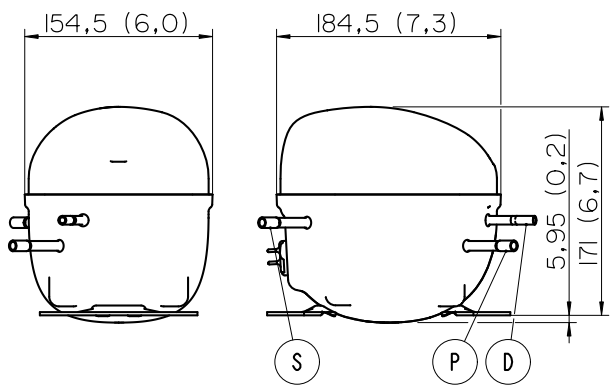
EXTERNAL CHARACTERISTICS

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

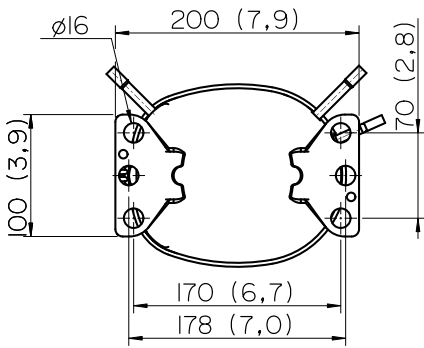
| Connector | Internal Diameter | Shape       | Material |
|-----------|-------------------|-------------|----------|
| Suction   | 6.1 mm            | SLANTED 42° | COPPER   |
| Discharge | 4.86 mm           | STRAIGHT    | COPPER   |
| Process   | 6.1 mm            | SLANTED 42° | COPPER   |

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

