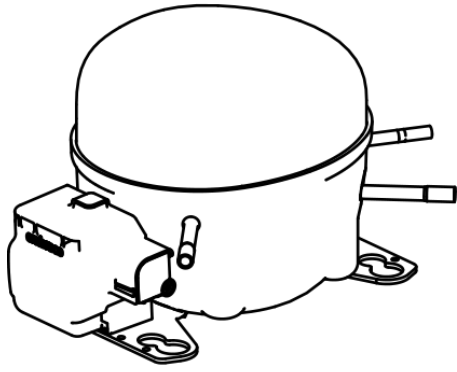


EMT6165U



ENGINEERING CODE
872GA67



REFRIGERANT
R-290



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
MBP



MOTOR TYPE
CSIR



STANDARD
EN12900



COOLING CAPACITY
472 W



EFFICIENCY
1.91 W/W

DATA

GENERAL DATA

| | |
|------------------------|-----------------------------------|
| Model | EMT6165U |
| Type | Hermetic Reciprocating |
| Technology | ON/OFF |
| Compressor Application | MBP |
| Expansion Device | Capillary Tube or Expansion Valve |
| Compressor Cooling | Fan/220 |
| HP | 1/3- |
| Starting Torque | HST |
| Plant | ITALY |

ELECTRICAL DATA

| | |
|----------------------------------|----------------|
| Start Winding Resistance | 19.2 Ω at 25°C |
| Run Winding Resistance | 10.1 Ω at 25°C |
| Locked Rotor Amperage (LRA) 50Hz | 10.4 A |

MECHANICAL DATA

| | |
|---------------|----------------------|
| Displacement | 5.96 cm ³ |
| Oil Charge | 180 ml |
| Oil Type | ESTER |
| Oil Viscosity | ISO22 |
| Weight | 7.8 Kg |

ELECTRICAL COMPONENTS

| | |
|-----------------------------|----------------|
| Start Capacitor | 64-77 µf/330 V |
| CSR CSIR BOX | No |
| Starting Device Type | RELAY |
| Starting Device Description | MTRPH-0025-59* |
| Overload Protection | T0571/G6 |

PERFORMANCE

TESTED CONDITIONS

| | |
|-------------------------|---------|
| Tested Refrigerant | R-290 |
| Tested Application | MBP |
| Tested Standard | EN12900 |
| Tested Cooling | Fan |
| 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 | 472 | 1.91 | 247 | - | 5.81 |

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 | 368 | 1.84 | 200 | - | 4.08 |
| -15 | 445 | 2.11 | 211 | - | 4.96 |
| -10 | 536 | 2.40 | 223 | - | 6.00 |
| -5 | 642 | 2.73 | 235 | - | 7.23 |
| 0 | 765 | 3.12 | 245 | - | 8.68 |
| 5 | 908 | 3.63 | 250 | - | 10.39 |
| 10 | 1072 | 4.31 | 249 | - | 12.40 |

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 | 323 | 1.46 | 221 | - | 3.93 |
| -15 | 391 | 1.69 | 232 | - | 4.79 |
| -10 | 472 | 1.91 | 247 | - | 5.81 |
| -5 | 566 | 2.14 | 264 | - | 7.01 |
| 0 | 676 | 2.40 | 281 | - | 8.45 |
| 5 | 804 | 2.71 | 296 | - | 10.14 |
| 10 | 951 | 3.10 | 307 | - | 12.13 |

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

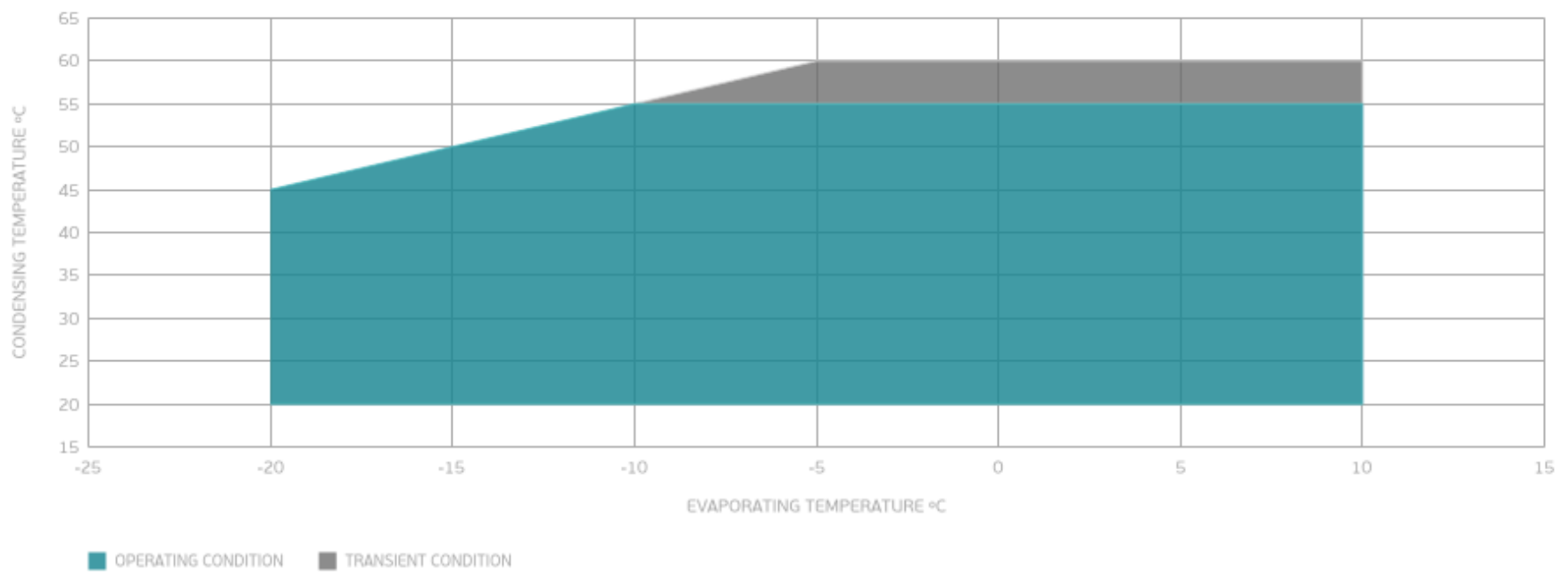
PERFORMANCE CURVE

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -10 | 407 | 1.56 | 261 | - | 5.59 |
| -5 | 489 | 1.74 | 281 | - | 6.77 |
| 0 | 585 | 1.93 | 303 | - | 8.18 |
| 5 | 697 | 2.14 | 325 | - | 9.85 |
| 10 | 827 | 2.39 | 346 | - | 11.81 |

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

ENVELOPE



External

EXTERNAL CHARACTERISTICS

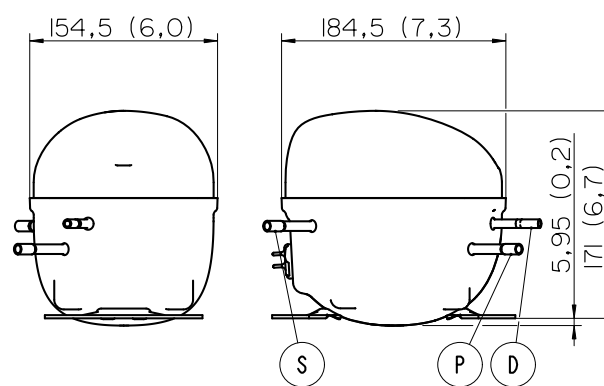
Base Plate SMALL

Tray Holder YES

| Connector | Internal Diameter | Shape | Material |
|-----------|-------------------|-------------|----------|
| Suction | 6.1 mm | SLANTED 42° | COPPER |
| Discharge | 4.94 mm | STRAIGHT | COPPER |
| Process | 6.1 mm | SLANTED 42° | COPPER |

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

