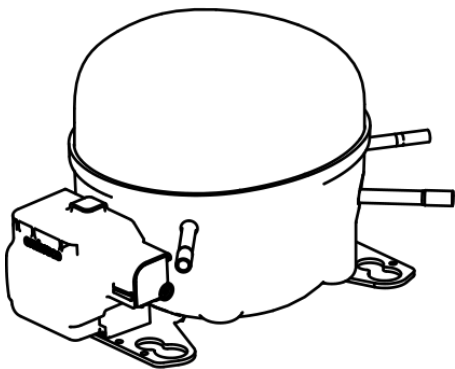


COMPRESSOR TECHNICAL DATA



EMT2130GK



ENGINEERING CODE  
513306211



REFRIGERANT  
R-404A



POWER SUPPLY  
220-240 V 50 Hz



APPLICATION  
LBP



MOTOR TYPE  
CSIR



STANDARD  
EN12900



COOLING CAPACITY  
214 W



EFFICIENCY  
1.04 W/W

DATA

GENERAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Model                  | EMT2130GK                         |
| Type                   | Hermetic Reciprocating            |
| Technology             | ON/OFF                            |
| Compressor Application | LBP                               |
| Expansion Device       | Capillary Tube or Expansion Valve |
| Compressor Cooling     | Fan/220                           |
| HP                     | 1/2-                              |
| Starting Torque        | HST                               |
| Plant                  | BRAZIL                            |

ELECTRICAL DATA

|                                     |                 |
|-------------------------------------|-----------------|
| Start Winding Resistance            | 16.95 Ω at 25°C |
| Run Winding Resistance              | 10.1 Ω at 25°C  |
| Locked Rotor Amperage (LRA) 50Hz    | 12.4 A          |
| Rated Load Amperage (LMBP) at 50 Hz | 2.8 A           |
| Rated Load Amperage (HBP) at 50 Hz  | 3 A             |

MECHANICAL DATA

|               |          |
|---------------|----------|
| Displacement  | 6.76 cm³ |
| Oil Charge    | 180 ml   |
| Oil Type      | ESTER    |
| Oil Viscosity | ISO22    |
| Weight        | 8 Kg     |

ELECTRICAL COMPONENTS

|                             |                             |
|-----------------------------|-----------------------------|
| Start Capacitor             | 72-88 µf/330 V              |
| CSR CSIR BOX                | No                          |
| Starting Device Type        | RELAY                       |
| Starting Device Description | MTRPH-0025-65* QL2-5.15 *** |
| Overload Protection         | DRB200L52AXF                |

EXTERNAL CHARACTERISTICS

|             |            |
|-------------|------------|
| Base Plate  | SMALL EUEM |
| Tray Holder | NO         |

| 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   |

PERFORMANCE

TESTED CONDITIONS

|                         |         |
|-------------------------|---------|
| Tested Refrigerant      | R-404A  |
| Tested Application      | LBP     |
| Tested Standard         | EN12900 |
| Tested Cooling          | Fan     |
| Tested Voltage          | 220 V   |
| Tested Frequency        | 50 Hz   |
| Max Refrigerant Charge  | 250 g   |
| Refrigerant Temperature | Dew     |

## RATED POINTS

| Condensing Temperature<br>°C                                                                              | Evaporating Temperature<br>°C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|-----------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| 40                                                                                                        | -35                           | 214                | 1.04           | 206                 | -         | 5.8                |
| 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 |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -40                                                                                                       | 182                | 1.01           | 179                 | -         | 4.61               |
| -35                                                                                                       | 236                | 1.17           | 202                 | -         | 6.03               |
| -30                                                                                                       | 303                | 1.34           | 227                 | -         | 7.76               |
| -25                                                                                                       | 381                | 1.51           | 253                 | -         | 9.82               |
| -20                                                                                                       | 473                | 1.69           | 280                 | -         | 12.26              |
| -15                                                                                                       | 578                | 1.88           | 307                 | -         | 15.10              |
| -10                                                                                                       | 698                | 2.09           | 333                 | -         | 18.39              |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |           |                    |

## PERFORMANCE CURVE

### Condensing Temperature 45°C

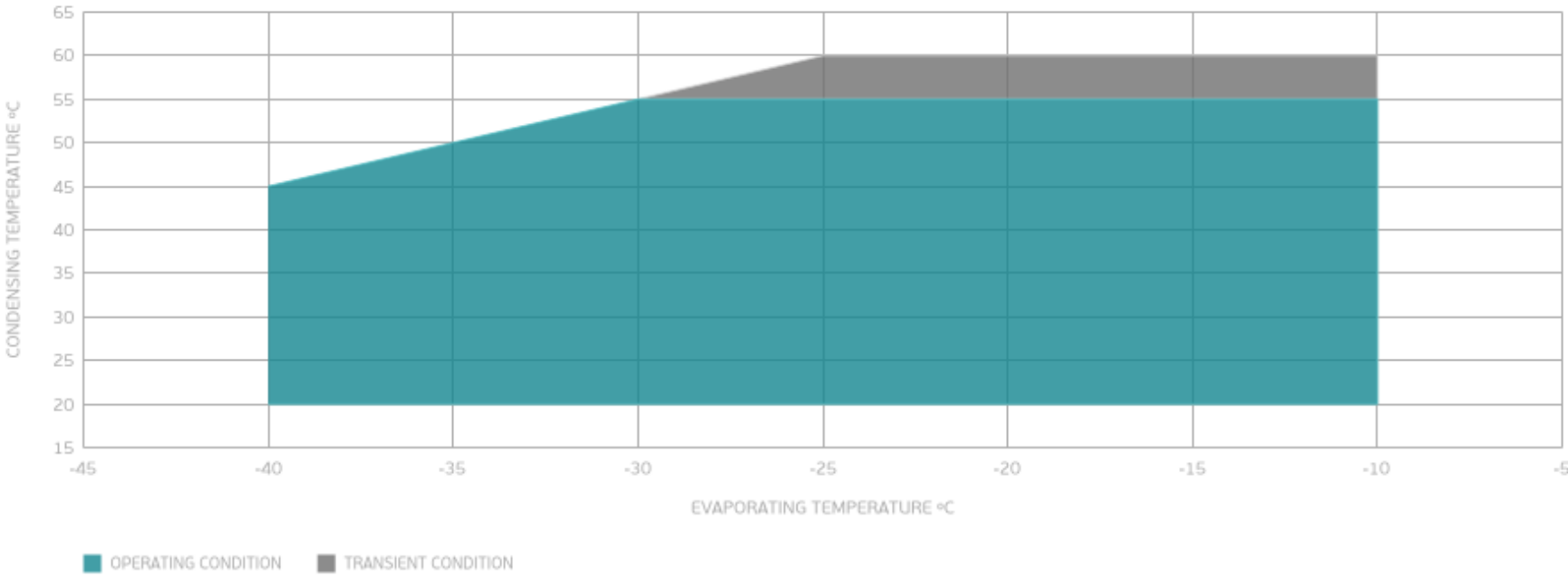
| Evaporating Temperature °C                                                                                | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -40                                                                                                       | 145                | 0.79           | 185                 | -         | 4.19               |
| -35                                                                                                       | 192                | 0.92           | 209                 | -         | 5.55               |
| -30                                                                                                       | 248                | 1.04           | 238                 | -         | 7.22               |
| -25                                                                                                       | 315                | 1.17           | 269                 | -         | 9.22               |
| -20                                                                                                       | 394                | 1.30           | 304                 | -         | 11.60              |
| -15                                                                                                       | 484                | 1.43           | 339                 | -         | 14.39              |
| -10                                                                                                       | 587                | 1.56           | 376                 | -         | 17.62              |
| 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 |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -30                                                                                                       | 193                | 0.80           | 242                 | -         | 6.59               |
| -25                                                                                                       | 248                | 0.89           | 278                 | -         | 8.52               |
| -20                                                                                                       | 312                | 0.98           | 318                 | -         | 10.83              |
| -15                                                                                                       | 386                | 1.07           | 361                 | -         | 13.54              |
| -10                                                                                                       | 471                | 1.16           | 407                 | -         | 16.70              |
| Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation. |                    |                |                     |           |                    |

ENVELOPE



EXTERNAL DIMENSIONS

