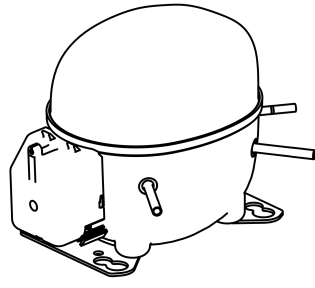


NEK6214U



ENGINEERING CODE
863HA51



REFRIGERANT
R-290



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
MBP



MOTOR TYPE
CSCR



STANDARD
ASHRAE



COOLING CAPACITY
919 W



EFFICIENCY
1.89 W/W



DATA

GENERAL DATA

| | |
|------------------------|-----------------------------------|
| Model | NEK6214U |
| Type | Hermetic Reciprocating |
| Technology | ON/OFF |
| Compressor Application | MBP |
| Expansion Device | Capillary Tube or Expansion Valve |
| Compressor Cooling | Fan/220 |
| HP | 1/2 |
| Starting Torque | HST |
| Plant | SLOVAKIA |

ELECTRICAL DATA

| | |
|-------------------------------------|------------------------|
| Start Winding Resistance | 18.67 Ω at 25°C |
| Run Winding Resistance | 4.19 Ω at 25°C |
| Locked Rotor Amperage (LRA) 50Hz | 17 A |
| Rated Load Amperage (LMBP) at 50 Hz | 4 A |

MECHANICAL DATA

| | |
|---------------|-----------------------|
| Displacement | 12.11 cm ³ |
| Oil Charge | 350 ml |
| Oil Type | AB |
| Oil Viscosity | ISO32 |
| Weight | 11.7 Kg |

ELECTRICAL COMPONENTS

| | |
|-----------------------------|----------------|
| Start Capacitor | 53-64 µf/330 V |
| Run Capacitor | 17.5 µf/400 V |
| CSR CSIR BOX | Yes |
| Starting Device Description | RVA4M3C-110 |
| Overload Protection | T0874/G9 |

PERFORMANCE

TESTED CONDITIONS

| | |
|-------------------------|--------|
| Tested Refrigerant | R-290 |
| Tested Application | MBP |
| Tested Standard | ASHRAE |
| Tested Cooling | Fan |
| Tested Voltage | 220 V |
| 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 |
|---------------------------|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| 54.4 | -6.7 | 919 | 1.89 | 486 | - | 10.51 |

Test Condition: Subcooling 8.3 K, Return Gas 35 °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 | 722 | 2.14 | 337 | - | 6.96 |
| -15 | 892 | 2.43 | 367 | - | 8.61 |
| -10 | 1102 | 2.77 | 398 | - | 10.69 |
| -5 | 1345 | 3.16 | 426 | - | 13.12 |
| 0 | 1613 | 3.60 | 448 | - | 15.84 |
| 5 | 1899 | 4.12 | 461 | - | 18.75 |
| 10 | 2193 | 4.77 | 460 | - | 21.79 |

Test Condition: Subcooling 8.3 K, Return Gas 35 °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 | 657 | 1.77 | 372 | - | 6.84 |
| -15 | 796 | 1.98 | 402 | - | 8.32 |
| -10 | 970 | 2.21 | 439 | - | 10.18 |
| -5 | 1170 | 2.45 | 478 | - | 12.35 |
| 0 | 1388 | 2.70 | 515 | - | 14.74 |
| 5 | 1617 | 2.96 | 547 | - | 17.27 |
| 10 | 1847 | 3.24 | 570 | - | 19.87 |

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data are an indication of performance based simulation.

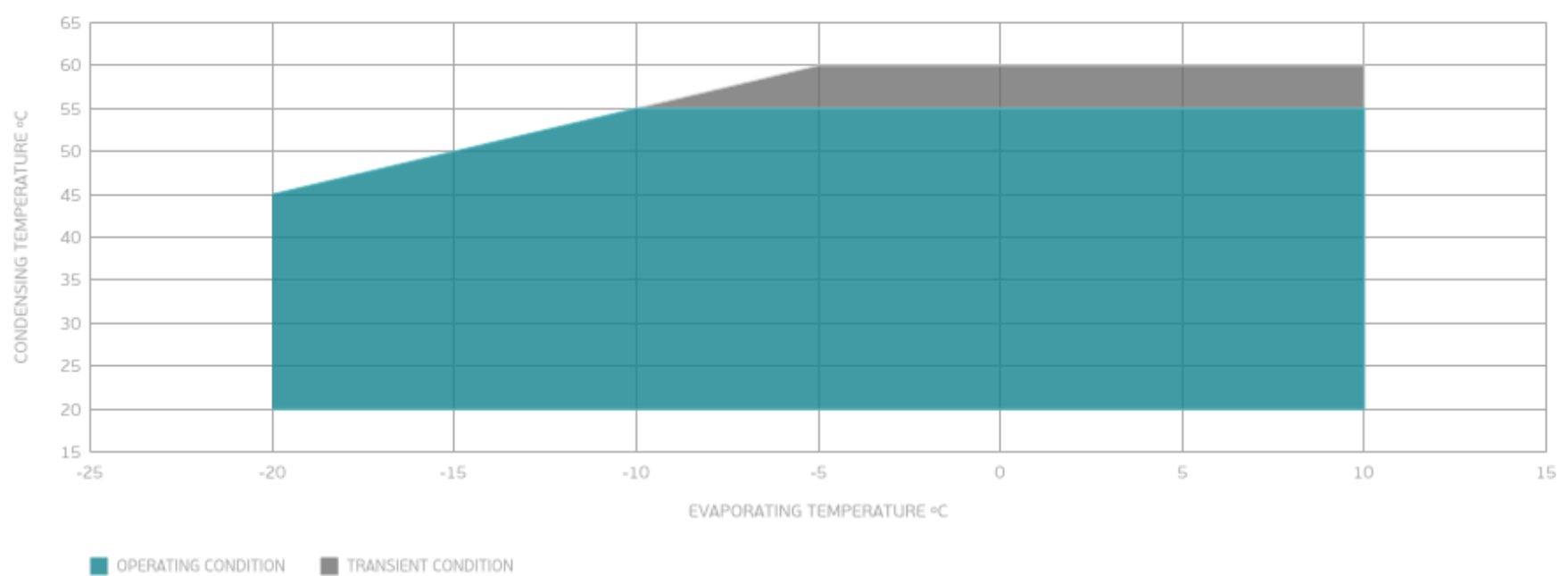
PERFORMANCE CURVE

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Efficiency W/W | Power Consumption W | Current A | Gas Flow Rate kg/h |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -10 | 801 | 1.75 | 458 | - | 9.18 |
| -5 | 963 | 1.92 | 501 | - | 11.09 |
| 0 | 1135 | 2.07 | 548 | - | 13.16 |
| 5 | 1311 | 2.21 | 594 | - | 15.33 |
| 10 | 1483 | 2.33 | 636 | - | 17.51 |

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data are an indication of performance based simulation.

ENVELOPE



External

EXTERNAL CHARACTERISTICS

| | | | |
|------------------|--------------------------|--------------|-----------------|
| Base Plate | | SMALL | |
| Tray Holder | | NO | |
| Connector | Internal Diameter | Shape | Material |
| Suction | 8.1 mm | SLANTED 42° | COPPER |
| Discharge | 6.1 mm | STRAIGHT | COPPER |

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

