

APPROVALS



ENGINEERING CODE
923EA04

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
1042 W (LBP)

EFFICIENCY
1.28 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

| | |
|-----------------------------------|-----------------------------------|
| Type | Hermetic reciprocating |
| Technology Type | On-Off |
| Displacement | 22.37 cm ³ |
| Compressor Cooling | Fan/NotControlled/220 |
| Fan Air Flow | 520 m ³ /h |
| Expansion Device | Capillary Tube or Expansion Valve |
| Horse Power | 1 hp |
| Max Condensing Pressure Operating | 24.71 bar |
| Max Condensing Pressure Peak | 27.71 bar |
| Power Supply | 220-240 V 50 Hz |
| Evaporating Temperature Range | -40 °C to -10 °C |

Electrical Data

| | |
|--------------------------|----------------|
| Motor type | CSIR |
| Starting Torque | HST |
| Start Winding Resistance | 8.4 Ω at 25° C |
| Run Winding Resistance | 1.9 Ω at 25° C |

Mechanical Data

| | |
|--|----------------|
| Maximum Recommended Refrigerant Charge | 800 g |
| Oil Charge | 450 ml |
| Oil Type Configuration | ESTER |
| Oil Type Viscosity | ISO22 |
| Pressurization | Dry air charge |
| Weight | 17.5 Kg |
| Free Internal Volume | 3.3 L |

Electrical Components

| | Description |
|------------------|---------------------|
| Start Capacitor | 130-156 Uf / 250 V |
| Starting Device | Relay MTRPH61-65* |
| Motor Protection | T0060/20 |

External Characteristics

| Base Plate | Universal | |
|-------------|-------------------|-----------------|
| Tray Holder | No | |
| Height | 234 mm | |
| Connector | Internal Diameter | Shape |
| Suction | 9.6 mm | Vertical/Copper |
| Discharge | 6.42 mm | Vertical/Copper |
| Process | 6.42 mm | Vertical/Copper |

PERFORMANCE

Rated Points

| Condensing Temperature | Evaporating Temperature | Cooling Capacity | Power Consumption | Current | Gas Flow Rate | Efficiency |
|------------------------|-------------------------|------------------|-------------------|---------|---------------|------------|
| 54.40°C | -23.30°C | 1042 W | 812 W | 4.92 A | 24.10 kg/h | 1.28 W/W |

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Performance Curve Data

Condensing Temperature 35°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -40 | 486 | 449 | 3.85 | 11.16 | 1.08 |
| -35 | 653 | 526 | 4.02 | 15.02 | 1.24 |
| -30 | 865 | 603 | 4.24 | 19.97 | 1.43 |
| -25 | 1123 | 680 | 4.49 | 26.03 | 1.65 |
| -20 | 1426 | 759 | 4.77 | 33.24 | 1.88 |
| -15 | 1774 | 838 | 5.1 | 41.60 | 2.12 |
| -10 | 2167 | 918 | 5.46 | 51.14 | 2.36 |

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -35 | 600 | 540 | 4.05 | 13.79 | 1.11 |
| -30 | 802 | 634 | 4.33 | 18.48 | 1.26 |
| -25 | 1048 | 731 | 4.65 | 24.25 | 1.43 |
| -20 | 1338 | 828 | 5.01 | 31.12 | 1.62 |
| -15 | 1671 | 927 | 5.4 | 39.11 | 1.8 |
| -10 | 2048 | 1028 | 5.84 | 48.24 | 1.99 |

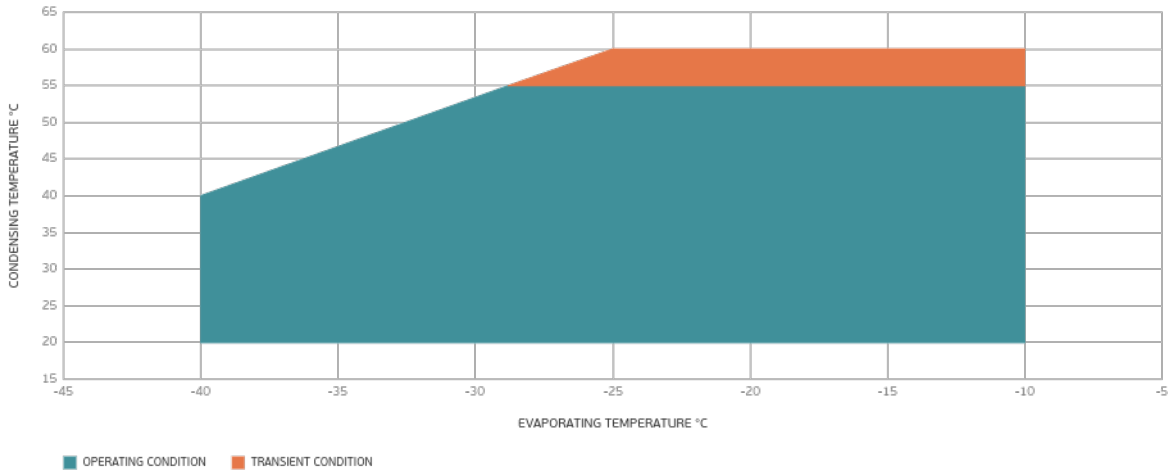
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

| Evaporating Temperature °C | Cooling Capacity W | Power W | Current A | Gas Flow Rate kg/h | Efficiency W/W |
|----------------------------|--------------------|---------|-----------|--------------------|----------------|
| -30 | 717 | 663 | 4.43 | 16.50 | 1.08 |
| -25 | 950 | 775 | 4.8 | 21.94 | 1.23 |
| -20 | 1225 | 889 | 5.21 | 28.44 | 1.38 |
| -15 | 1543 | 1004 | 5.66 | 36.02 | 1.54 |
| -10 | 1902 | 1122 | 6.15 | 44.71 | 1.69 |

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope



External Dimensions

