

220-240V 50 1~**GENERAL DATA**

Application: LBP
Refrigerant: R290
Evaporating Temperature Range: -40°C to -10°C
Compressor Cooling: Fan
Fan air flow: 520 m³/h
Type: Hermetic reciprocating
Technology Type: On-Off
Expansion Device: Capillary Tube or Expansion Valve
Packing Quantity: Single - 1 pc
Displacement: 17.4 cm³
Horse power: 3.4 hp

Approvals:   

MECHANICAL DATA

Bore: 34.12 mm
Stroke: 19.03 mm
Oil Charge: 450ml +/-15ml
Free Internal Volume: 3.3 cm³
Maximum Recommended Refrigerant Charge: 150 g
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressurization: Without dry air charge
Weight: 16.9 kg

ELECTRICAL DATA

Motor Type: CSR
Starting Torque: HST
Voltage working range at 50 Hz: 198-254 V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 13.8 Ω (± 10%) at 25°C
Run Winding Resistance: 2.7 Ω (± 10%) at 25°C

MOUNTING ACCESSORIES

| | Description | Code |
|------------------------------------|-------------|---------|
| Terminal Board: | no | - |
| Anchorage: | no | - |
| Capacitor Bracket: | no | - |
| Grommets: | yes | 2221004 |
| Sleeves: | yes | 2222016 |
| Washer: | no | - |
| Pin: | no | - |
| Clip: | no | - |
| Rotolock valve: | no | - |
| Overload Protector Bracket: | yes | 2075299 |
| Cover: | yes | 2075278 |

ELECTRICAL COMPONENTS

| | Component type | Description | Code |
|--------------------------|-----------------|----------------|---------|
| Start Capacitor: | | 53-64 MFD 330V | 2252261 |
| Run Capacitor: | | 10 MFD | 2253316 |
| Starting Device: | Potential relay | RVA2L3C-112 | 1253010 |
| Motor Protection: | External 3/4" | T0916/G9 | 2321131 |
| CSR / CSIR Box: | yes | | 1272321 |

EXTERNAL CHARACTERISTICS

Base Plate: Universal
Tray Holder: No
Height: 220 mm

| | Internal Diameter (mm) | Material | Shape |
|----------------------------|------------------------|----------|----------|
| Suction Connector | 9.6 | Copper | Vertical |
| Discharge Connector | 6.42 | Copper | Vertical |
| Process Connector | 6.42 | Copper | Vertical |

RATED POINT DATA

| Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (W/W) |
|----------------------|-----------------------|-------------------------|----------------------|------------------|
| ±5% | ±5% | ±5% | ±5% | ±7% |
| 708 | 485 | 2.48 | 7.19 | 1.46 |

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporating: -23.3°C, Condensing: 54°C, Ambient: 32.2°C, Liquid: 32.2°C

PERFORMANCE CURVE DATA

220V 50Hz

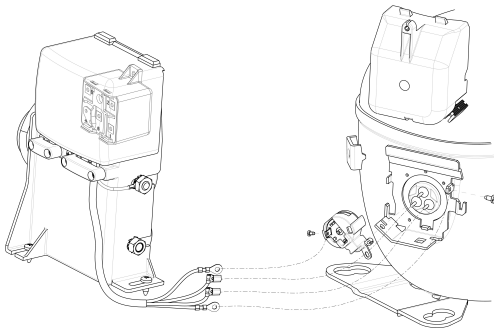
| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (W/W) |
|-----------------------------|------------------------------|----------------------|-----------------------|-------------------------|----------------------|------------------|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 35°C | -10 | 1 460 | 550 | 2.77 | 14.99 | 2.65 |
| | -15 | 1 201 | 510 | 2.59 | 12.27 | 2.35 |
| | -20 | 971 | 470 | 2.42 | 9.88 | 2.07 |
| | -25 | 770 | 428 | 2.24 | 7.82 | 1.80 |
| | -30 | 599 | 385 | 2.06 | 6.06 | 1.56 |
| | -35 | 456 | 341 | 1.88 | 4.61 | 1.34 |
| | -40 | 343 | 296 | 1.70 | 3.45 | 1.16 |

| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (W/W) |
|-----------------------------|------------------------------|----------------------|-----------------------|-------------------------|----------------------|------------------|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 45°C | -10 | 1 360 | 602 | 3.00 | 13.96 | 2.26 |
| | -15 | 1 114 | 551 | 2.77 | 11.39 | 2.02 |
| | -20 | 896 | 500 | 2.55 | 9.13 | 1.79 |
| | -25 | 707 | 450 | 2.33 | 7.17 | 1.57 |
| | -30 | 545 | 399 | 2.12 | 5.51 | 1.36 |
| | -35 | 411 | 349 | 1.91 | 4.15 | 1.18 |

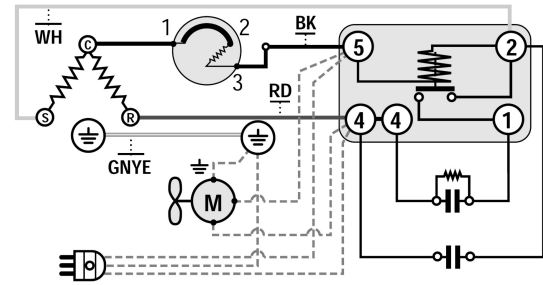
| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (W/W) |
|-----------------------------|------------------------------|----------------------|-----------------------|-------------------------|----------------------|------------------|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 55°C | -10 | 1 267 | 651 | 3.21 | 13.01 | 1.95 |
| | -15 | 1 032 | 588 | 2.93 | 10.55 | 1.75 |
| | -20 | 824 | 527 | 2.66 | 8.39 | 1.56 |
| | -25 | 643 | 466 | 2.40 | 6.52 | 1.38 |
| | -30 | 488 | 407 | 2.15 | 4.94 | 1.20 |

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Ambient: 32.2°C, Liquid: 32.2°C

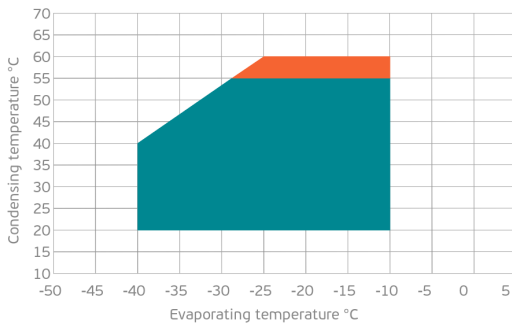
ASSEMBLY INSTRUCTION



WIRING DIAGRAM



OPERATING ENVELOPE



- Operating Condition
- Transient Condition
- Superheating

NOTE: usage of compressors outside of intended working range cannot make use of the warranty, or should be consulted with Technical support.

