**208-230V 60 1~**



## GENERAL DATA

**Application:** LBP
**Refrigerant:** R404A
**Evaporating Temperature Range:** -40°C to -10°C
**Compressor Cooling:** Fan
**Fan air flow:** 800 $m^3/h$
**Type:** Hermetic reciprocating
**Technology Type:** On-Off
**Expansion Device:** Capillary Tube or Expansion Valve
**Packing Quantity:** Single - 1 pc
**Displacement:** 34.4 cm3
**Horse power:** 1.5 hp

**Approvals:**

**Bore:** 42.85 mm
**Stroke:** 23.85 mm
**Oil Charge:** 750ml +/-15ml
**Free Internal Volume:** 3.9 cm3
**Maximum Recommended Refrigerant Charge:** 800 g
**Oil Type Configuration:** Polyolester
**Oil Type Viscosity:** ISO22
**Compressor pressuriazation:** Dry air charge
**Weight:** 22 kg

**Motor Type:** CSR
**Starting Torque:** HST
**Voltage working range at 60 Hz:** 187-244 V
**Maximum Motor Temperature:** 130 °C
**Start Winding Resistance:** 4.18 Ω (± 10%) at 25°C
**Run Winding Resistance:** 1.05 Ω (± 10%) at 25°C
**Locked Rotor Amperage (LRA):** 54 A

## MOUNTING ACCESSORIES

| | Description | Code |
|---|---|---|
| **Cover:** | yes | 2075281 |
| **Terminal Board:** | no | - |
| **Anchorage:** | no | - |
| **Overload Protector Bracket:** | no | - |
| **Capacitor Bracket:** | no | - |
| **Grommets:** | yes | 2221004 |
| **Sleeves:** | yes | 2222016 |
| **Washer:** | no | - |
| **Pin:** | no | - |
| **Clip:** | no | - |
| **Rotolock valve:** | no | - |

## ELECTRICAL COMPONENTS

| | Component type | Description | Code |
|---|---|---|---|
| **Run Capacitor:** | | 20 MFD | 2253312 |
| **Motor Protection:** | Internal | 15HM1963 | |
| **Starting Device:** | Potential relay | RVA2L3C-112 | 1253010 |
| **Start Capacitor:** | | 130-156 MFD 330V | 2252274 |
| **CSR / CSIR Box:** | yes | | 1272374 |

## EXTERNAL CHARACTERISTICS

**Base Plate:** Large
**Tray Holder:** No
**Height:** 276 mm

| | Internal Diameter (mm) | Material | Shape |
|---|---|---|---|
| **Suction Connector** | 12.77 | Steel | ROTOLOCK 1"-14UNS-2A |
| **Discharge Connector** | 8 | Copper | Slanted 65Â° |
| **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% |
| 1 785 | 1 370 | 7.13 | 41.28 | 1.30 |

**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

**208V 60Hz**

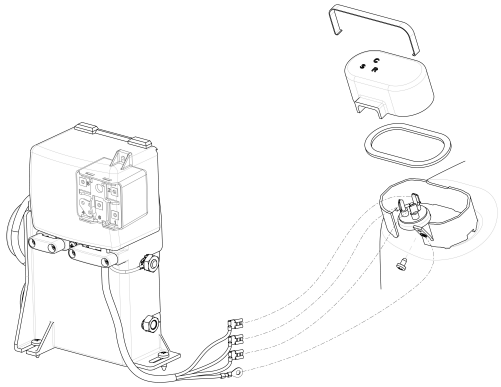
| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (W/W) |
|---|---|---|---|---|---|---|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 35°C | -10 | 3 839 | 1 846 | 9.58 | 90.62 | 2.08 |
| | -15 | 3 172 | 1 661 | 8.62 | 74.36 | 1.91 |
| | -20 | 2 572 | 1 478 | 7.69 | 59.93 | 1.74 |
| | -25 | 2 039 | 1 299 | 6.79 | 47.26 | 1.57 |
| | -30 | 1 572 | 1 122 | 5.93 | 36.30 | 1.40 |
| | -35 | 1 172 | 948 | 5.09 | 26.98 | 1.24 |
| | -40 | 839 | 776 | 4.29 | 19.25 | 1.08 |

| 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 | 3 655 | 2 012 | 10.42 | 86.11 | 1.82 |
| | -15 | 2 971 | 1 764 | 9.13 | 69.52 | 1.68 |
| | -20 | 2 364 | 1 531 | 7.94 | 54.98 | 1.54 |
| | -25 | 1 833 | 1 313 | 6.85 | 42.42 | 1.40 |
| | -30 | 1 380 | 1 110 | 5.86 | 31.79 | 1.24 |
| | -35 | 1 003 | 923 | 4.97 | 23.03 | 1.09 |

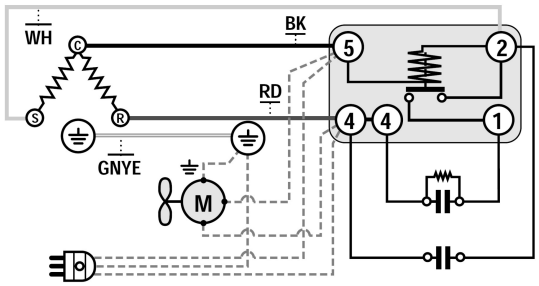
| Condensing Temperature (°C) | Evaporating Temperature (°C) | Cooling Capacity (W) | Power Consumption (W) | Current Consumption (A) | Gas Flow Rate (kg/h) | Efficiency (W/W) |
|---|---|---|---|---|---|---|
| | | ±5% | ±5% | ±5% | ±5% | ±7% |
| 55°C | -10 | 3 427 | 2 143 | 11.09 | 80.57 | 1.60 |
| | -15 | 2 728 | 1 828 | 9.45 | 63.69 | 1.49 |
| | -20 | 2 115 | 1 540 | 7.99 | 49.08 | 1.37 |
| | -25 | 1 589 | 1 281 | 6.69 | 36.69 | 1.24 |
| | -30 | 1 150 | 1 049 | 5.56 | 26.44 | 1.10 |

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

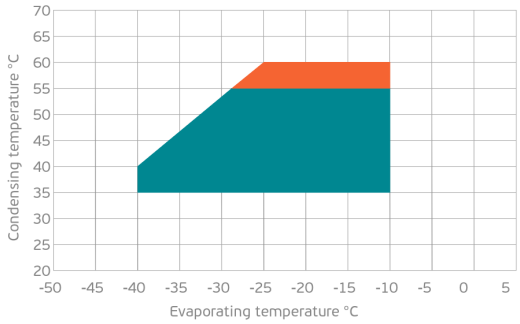
## ASSEMBLY INSTRUCTION



## WIRING DIAGRAM

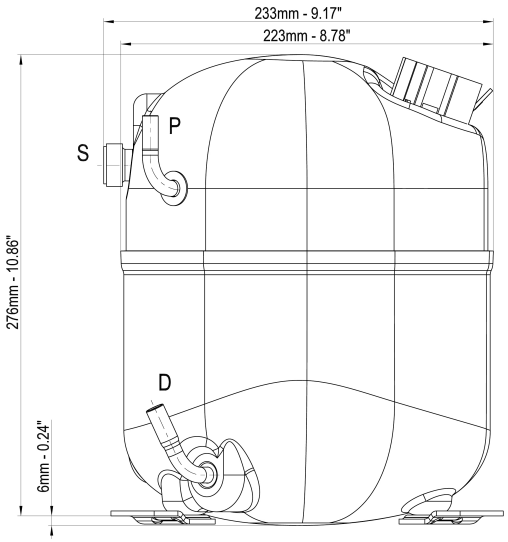



## OPERATING ENVELOPE




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.




| | ∅ mm | ∅ in | Material |
|---|---|---|---|
| **S - Suction** | 12.77 - 12.85 | 0.50 | Cu |
| **P - Process** | 6.42 - 6.50 | 0.25 | Cu |
| **D - Discharge** | 8.00 - 8.07 | 0.31 | Cu |

