

220-240V 50 1~



GENERAL DATA

Application: MBP
Refrigerant: R404A
Evaporating Temperature Range: -20°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: Multi - 36 pcs
Displacement: 20.4 cm³
Horse power: 1 hp

Approvals:   

MECHANICAL DATA

Bore: 36.99 mm
Stroke: 19.03 mm
Oil Charge: 450ml +/-15ml
Free Internal Volume: 3.3 cm³
Maximum Recommended Refrigerant Charge: 800 g
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressuriazation: Dry air charge
Weight: 17.3 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: 6.98 Ω (± 10%) at 25°C
Run Winding Resistance: 1.91 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:	88-108 MFD	330V	2252269
Starting Device:	Potential relay	RVA4L3C-566	1253051
Run Capacitor:	25 MFD		2253313
Motor Protection:	External 3/4"	MRA38112-3261	2321167
CSR / CSIR Box:	yes		1262346

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%
3 041	1 272	6.14	85.03	2.39

Test condition: ASHRAE, Fan, Return Gas 35°C, Subcooling 8.3K, Evaporating: 7.2°C, Condensing: 54°C, Ambient: 35°C

PERFORMANCE CURVE DATA**220V 50Hz**

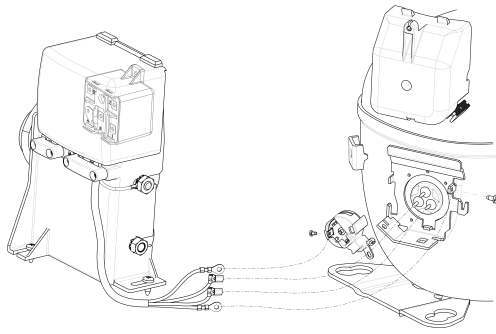
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	10	4 492	1 083	5.23	102.26	4.15
	5	3 817	1 030	4.98	85.90	3.71
	0	3 204	974	4.73	71.37	3.29
	-5	2 652	917	4.48	58.57	2.89
	-10	2 161	859	4.22	47.40	2.51
	-15	1 732	801	3.96	37.74	2.16
	-20	1 364	743	3.70	29.48	1.84

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	3 843	1 203	5.80	97.10	3.19
	5	3 259	1 137	5.48	81.26	2.87
	0	2 731	1 069	5.16	67.29	2.55
	-5	2 258	999	4.84	55.09	2.26
	-10	1 840	928	4.53	44.55	1.98
	-15	1 478	857	4.21	35.56	1.73
	-20	1 171	785	3.90	28.02	1.49

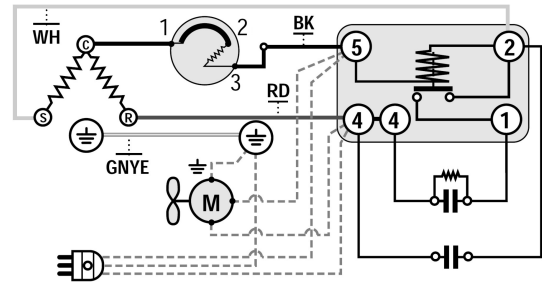
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	10	3 287	1 328	6.43	93.88	2.48
	5	2 774	1 249	6.02	78.07	2.22
	0	2 310	1 168	5.63	64.17	1.98
	-5	1 897	1 086	5.24	52.08	1.75
	-10	1 532	1 002	4.86	41.69	1.53

Test condition: ASHRAE, Fan, Return Gas 35°C, Subcooling 8.3K, Ambient: 35°C

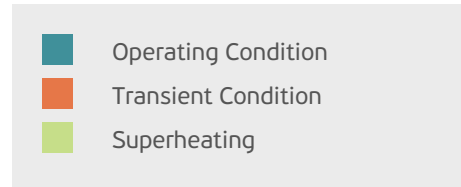
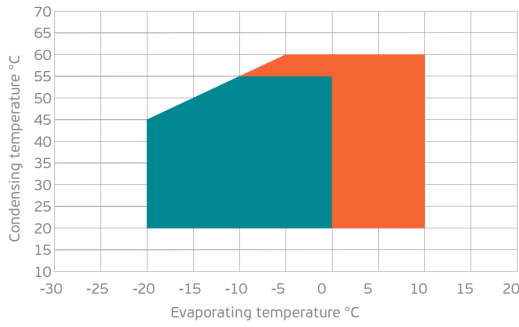
ASSEMBLY INSTRUCTION



WIRING DIAGRAM



OPERATING ENVELOPE



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

