

230V 50 1~**GENERAL DATA****Application:** M/HBP**Refrigerant:** R404A**Evaporating Temperature Range:** -20°C to 10°C**Compressor Cooling:** Fan**Fan air flow:** 800 m³/h**Type:** Hermetic reciprocating**Technology Type:** On-Off**Expansion Device:** Capillary Tube or Expansion Valve**Packing Quantity:** Single - 1 pc**Displacement:** 21.7 cm³**Horse power:** 1 hp
Approvals:




MECHANICAL DATA**Bore:** 38.09 mm**Stroke:** 19.07 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 pressurization:** Dry air charge**Weight:** 21 kg**ELECTRICAL DATA****Motor Type:** CSR**Starting Torque:** HST**Voltage working range at 50 Hz:** 207-253 V**Maximum Motor Temperature:** 130 °C**Start Winding Resistance:** 7.8 Ω (± 10%) at 25°C**Run Winding Resistance:** 2.12 Ω (± 10%) at 25°C**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
Start Capacitor:	88-108 MFD	330V	2252269
Run Capacitor:	20 MFD		2253312
Motor Protection: External 3/4"	T0736/C9		2289020
Starting Device: Potential relay	RVA4M3C-110		1253009
CSR / CSIR Box: yes			1262156

EXTERNAL CHARACTERISTICS**Base Plate:** Large**Tray Holder:** No**Height:** 265 mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	9.6	Copper	Vertical
Discharge Connector	8	Copper	Slanted 65°
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%
3 324	1 310	5.77	92.72	2.54

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

PERFORMANCE CURVE DATA

230V 50Hz

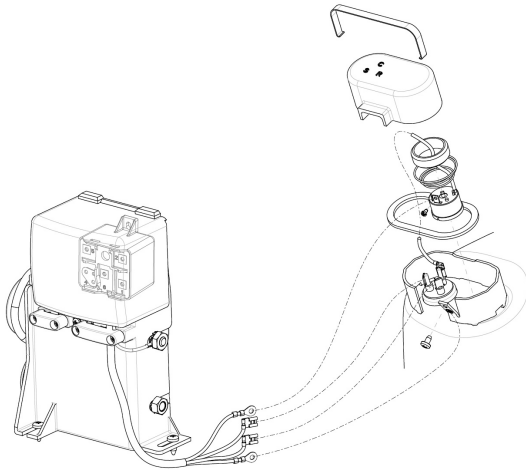
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	10	5 001	1 096	4.85	113.71	4.56
	5	4 185	1 052	4.60	94.13	3.98
	0	3 455	1 002	4.36	76.94	3.45
	-5	2 811	946	4.11	62.06	2.97
	-10	2 253	885	3.86	49.38	2.55
	-15	1 782	819	3.60	38.82	2.18
	-20	1 398	749	3.33	30.28	1.87

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	4 310	1 234	5.45	108.58	3.49
	5	3 606	1 164	5.10	89.83	3.10
	0	2 975	1 090	4.75	73.33	2.73
	-5	2 415	1 011	4.40	58.98	2.39
	-10	1 928	929	4.05	46.68	2.08
	-15	1 512	843	3.68	36.36	1.79
	-20	1 168	754	3.30	27.91	1.55

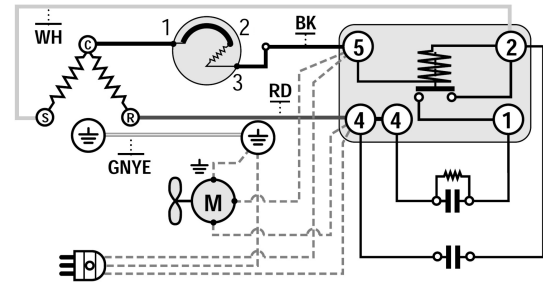
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	10	3 594	1 376	6.08	102.36	2.61
	5	3 007	1 280	5.63	84.52	2.35
	0	2 476	1 181	5.17	68.79	2.10
	-5	2 003	1 079	4.71	55.05	1.86
	-10	1 588	974	4.24	43.22	1.63

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

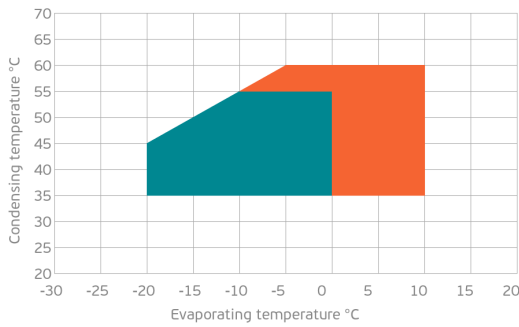
ASSEMBLY INSTRUCTION



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.

