

220-240V 50 1~



GENERAL DATA

Application: HBP
Refrigerant: R134a
Evaporating Temperature Range: -15°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: Multi - 36 pcs
Displacement: 34.4 cm³
Horse power: 1 hp

Approvals:     



MECHANICAL DATA

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 pressurization: Dry air charge
Weight: 20.5 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: 8.7 Ω (± 10%) at 25°C
Run Winding Resistance: 2 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
Starting Device:	Potential relay	RVA4M3C-109	1253012
Motor Protection:	External 3/4"	T0335/C9	2289022
Start Capacitor:		72-88 MFD 330V	2252270
Run Capacitor:		17.5 MFD	2253311
CSR / CSIR Box:	yes		1262273

EXTERNAL CHARACTERISTICS

Base Plate: Large
Tray Holder: No
Height: 253 mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	12.77	Copper	Vertical
Discharge Connector	8	Copper	Slanted 65°

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%
3 008	1 232	5.90	66.30	2.44

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

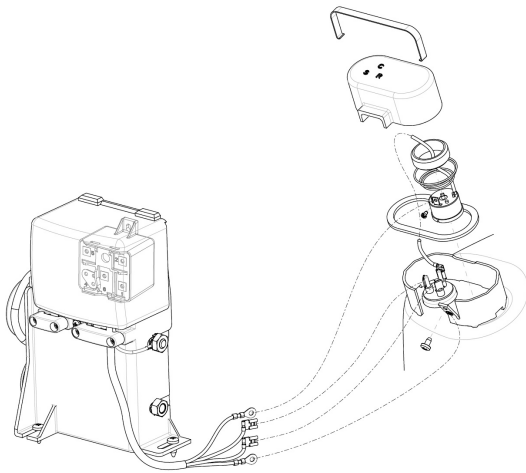
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	10	4 546	1 064	5.17	85.90	4.27
	5	3 828	992	4.86	71.86	3.86
	0	3 198	922	4.56	59.69	3.47
	-5	2 656	851	4.26	49.34	3.12
	-10	2 202	780	3.97	40.76	2.82
	-15	1 836	708	3.68	33.90	2.59

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	3 915	1 183	5.70	80.02	3.31
	5	3 281	1 091	5.29	66.64	3.01
	0	2 714	998	4.88	54.82	2.72
	-5	2 213	906	4.48	44.48	2.44
	-10	1 778	813	4.10	35.58	2.19
	-15	1 410	719	3.72	28.07	1.96

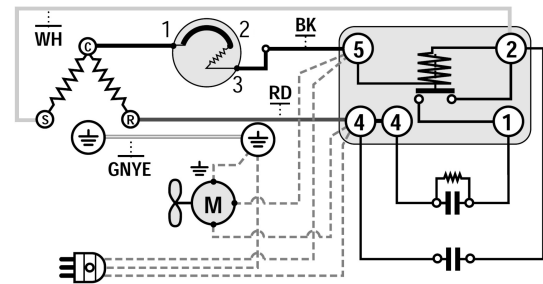
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	10	3 258	1 308	6.25	72.82	2.49
	5	2 711	1 193	5.72	60.13	2.27
	0	2 209	1 078	5.21	48.66	2.05
	-5	1 750	963	4.71	38.36	1.82
	-10	1 336	847	4.23	29.17	1.58

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

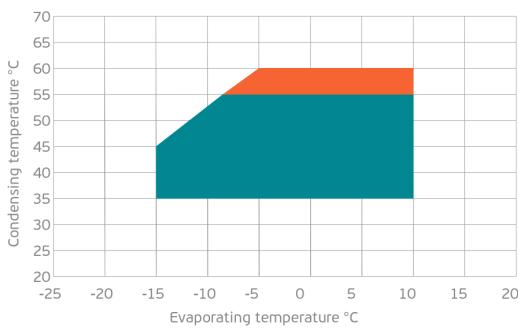
ASSEMBLY INSTRUCTION



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.

