

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

**Application:** MBP  
**Refrigerant:** R290  
**Evaporating Temperature Range:** -20°C to 10°C  
**Compressor Cooling:** Fan  
**Fan air flow:** 520 m<sup>3</sup>/h  
**Type:** Hermetic reciprocating  
**Technology Type:** On-Off  
**Expansion Device:** Capillary Tube or Expansion Valve  
**Packing Quantity:** Multi - 36 pcs  
**Displacement:** 22.4 cm<sup>3</sup>  
**Horse power:** 1 hp

Approvals:   

**MECHANICAL DATA**

**Bore:** 36.99 mm  
**Stroke:** 20.83 mm  
**Oil Charge:** 450ml +/-15ml  
**Free Internal Volume:** 3.3 cm<sup>3</sup>  
**Maximum Recommended Refrigerant Charge:** 150 g  
**Oil Type Configuration:** Polyolester  
**Oil Type Viscosity:** ISO22  
**Compressor pressurization:** Without dry air charge  
**Weight:** 17.7 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:** 8.8 Ω (± 10%) at 25°C  
**Run Winding Resistance:** 2.3 Ω (± 10%) at 25°C

**MOUNTING ACCESSORIES**

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

**ELECTRICAL COMPONENTS**

	Component type	Description	Code
<b>Start Capacitor:</b>		72-88 MFD 330V	2252270
<b>Starting Device:</b>	Potential relay	RVA3AN3C-647	1253026
<b>Run Capacitor:</b>		20 MFD	2253312
<b>Motor Protection:</b>	External 3/4"	T0907/G9	2321128
<b>CSR / CSIR Box:</b>	yes		1272002

**EXTERNAL CHARACTERISTICS**

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

	Internal Diameter (mm)	Material	Shape
<b>Suction Connector</b>	9.6	Copper	Vertical
<b>Discharge Connector</b>	6.42	Copper	Vertical
<b>Process Connector</b>	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%
2 864	1 026	4.63	32.56	2.79

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**

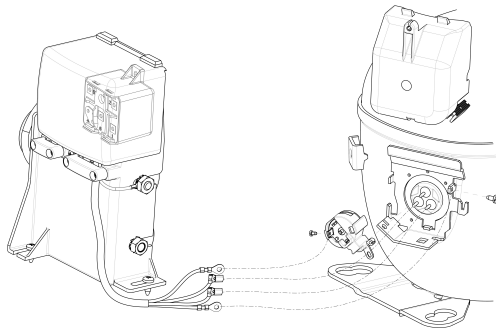
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
<b>35°C</b>	10	3 984	825	3.77	40.04	4.83
	5	3 442	789	3.61	32.99	4.36
	0	2 930	752	3.44	28.60	3.90
	-5	2 452	712	3.25	25.05	3.44
	-10	2 009	670	3.06	20.49	3.00
	-15	1 607	624	2.86	13.09	2.57
	-20	1 248	573	2.64	1.02	2.18

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%
<b>45°C</b>	10	3 546	943	4.24	38.75	3.76
	5	3 025	894	4.05	31.28	3.38
	0	2 542	844	3.84	26.71	3.01
	-5	2 100	792	3.62	23.21	2.65
	-10	1 703	737	3.38	18.94	2.31
	-15	1 353	679	3.12	12.07	1.99
	-20	1 055	615	2.84	0.76	1.72

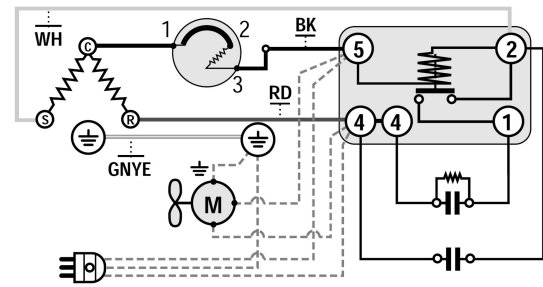
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
<b>55°C</b>	10	3 103	1 075	4.83	37.26	2.89
	5	2 609	1 010	4.57	29.42	2.58
	0	2 162	943	4.30	24.72	2.29
	-5	1 764	875	4.00	21.32	2.02
	-10	1 419	803	3.67	17.39	1.77

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

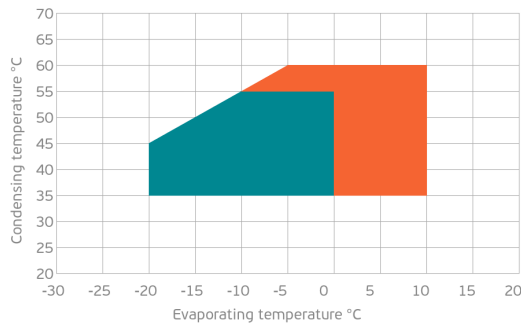
## ASSEMBLY INSTRUCTION



## 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.

