

**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:** 17.4 cm<sup>3</sup>  
**Horse power:** 3.4 hp

Approvals:   

**MECHANICAL DATA**

**Bore:** 34.12 mm  
**Stroke:** 19.03 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 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:** 9 Ω (± 10%) at 25°C  
**Run Winding Resistance:** 2.3 Ω (± 10%) at 25°C  
**Locked Rotor Amperage (LRA):** 30 A

**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>Run Capacitor:</b>	15 MFD		2253310
<b>Starting Device:</b>	Potential relay	RVA4AL3C-649	1253015
<b>Motor Protection:</b>	External 3/4"	T0485/G9	2321134
<b>Start Capacitor:</b>	43-53 MFD 330V		2252268
<b>CSR / CSIR Box:</b>	yes		1272005

**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%
2 270	801	4.26	25.80	2.83

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**

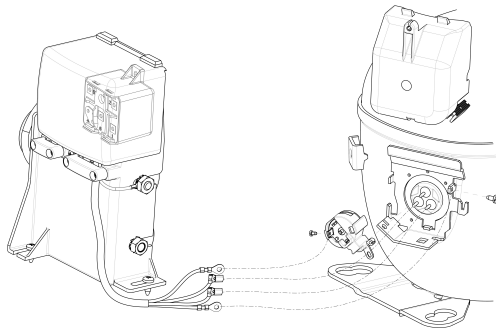
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
<b>35°C</b>	10	3 276	651	3.70	32.93	5.04
	5	2 746	635	3.63	26.32	4.33
	0	2 280	616	3.56	22.26	3.70
	-5	1 876	593	3.48	19.20	3.16
	-10	1 534	568	3.39	15.65	2.70
	-15	1 251	539	3.29	10.07	2.32
	-20	1 028	507	3.19	0.95	2.03

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	2 861	731	4.00	31.22	3.92
	5	2 398	708	3.90	24.78	3.39
	0	1 987	681	3.80	20.90	2.92
	-5	1 625	649	3.69	18.03	2.50
	-10	1 312	612	3.56	14.68	2.14
	-15	1 047	570	3.42	9.31	1.84
	-20	828	524	3.27	0.40	1.58

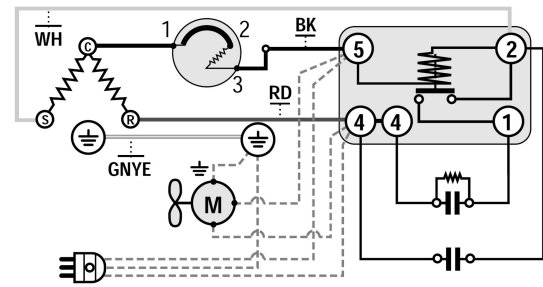
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
<b>55°C</b>	10	2 453	827	4.37	29.49	2.96
	5	2 072	797	4.24	23.35	2.60
	0	1 731	761	4.10	19.77	2.28
	-5	1 426	717	3.94	17.21	1.99
	-10	1 158	668	3.76	14.18	1.73

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

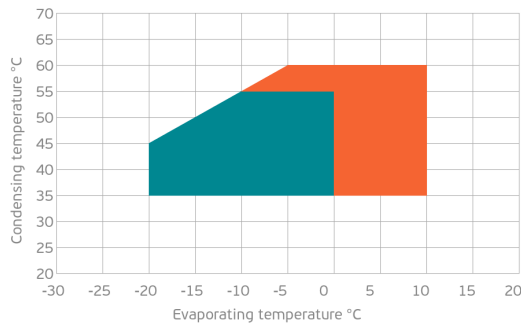
## ASSEMBLY INSTRUCTION



## 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.

