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^3/h
Type: Hermetic reciprocating
Technology Type: On-Off
Expansion Device: Capillary Tube or Expansion Valve
Packing Quantity: Single - 1 pc
Displacement: 14.5 cm3
Horse power: 1.2 hp
Approvals:

MECHANICAL DATA

Bore: 34.12 mm
Stroke: 15.87 mm
Oil Charge: 450ml +/-15ml
Free Internal Volume: 3.3 cm3
Maximum Recommended Refrigerant Charge: 150 g
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressuriazation: Without dry air charge
Weight: 16.8 kg

ELECTRICAL DATA

Motor Type: CSIR
Starting Torque: HST
Voltage working range at 50 Hz: 198-254 V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 12.53 Ω (± 10%) at 25°C
Run Winding Resistance: 2.43 Ω (± 10%) at 25°C

MOUNTING ACCESSORIES

	Description	Code
Anchorage:	no	-
Grommets:	yes	2221004
Sleeves:	yes	2222016
Washer:	no	-
Pin:	no	-
Clip:	no	-
Rotolock valve:	no	-
Cover:	yes	2075282
Terminal Board:	yes	1027060
Overload Protector Bracket:	yes	2075299
Capacitor Bracket:	yes	2255007

ELECTRICAL COMPONENTS

	Component type	Description	Code
Motor Protection:	External 3/4"	T0645/G6	2319086
Start Capacitor:		53-64 MFD 330V	2252366
Starting Device:	Current relay	MTRPH-54-65	2334133

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%
1 798	685	4.18	20.45	2.63

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

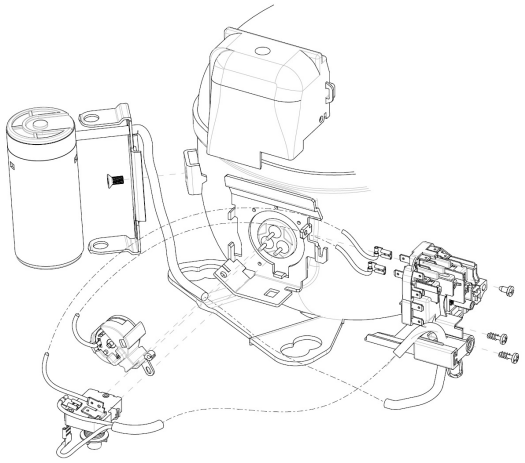
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	10	2 620	538	3.65	26.30	4.87
	5	2 209	524	3.60	21.21	4.22
	0	1 843	507	3.54	18.02	3.64
	-5	1 520	486	3.48	15.55	3.13
	-10	1 242	463	3.41	12.64	2.68
	-15	1 008	438	3.33	8.09	2.30
	-20	818	409	3.24	0.74	2.00

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	2 293	618	3.96	25.01	3.71
	5	1 919	599	3.87	19.85	3.21
	0	1 586	574	3.77	16.68	2.76
	-5	1 293	545	3.67	14.33	2.37
	-10	1 040	510	3.57	11.62	2.04
	-15	827	472	3.45	7.37	1.75
	-20	653	429	3.32	0.41	1.52

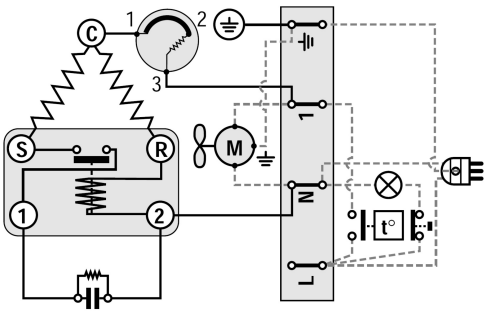
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	10	1 953	709	4.29	23.50	2.75
	5	1 629	680	4.16	18.35	2.40
	0	1 341	644	4.02	15.29	2.08
	-5	1 089	602	3.88	13.14	1.81
	-10	873	553	3.72	10.71	1.58

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

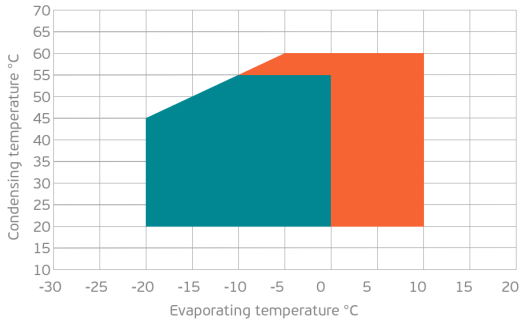
ASSEMBLY INSTRUCTION



WIRING DIAGRAM



OPERATING ENVELOPE

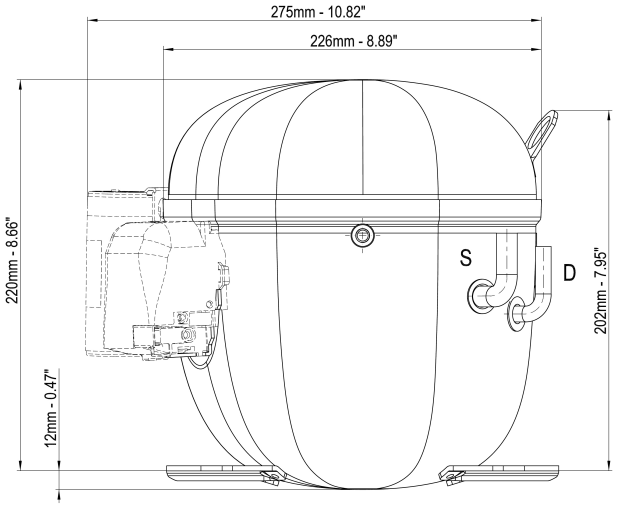


Operating Condition

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.



	∅ mm	∅ in	Material
S - Suction	9.60	0.37	Cu
P - Process	6.42	0.25	Cu
D - Discharge	6.42	0.25	Cu