

115-127V 60 1~**GENERAL DATA**

Application: MBP
Refrigerant: R134a
Compressor Cooling: Fan
Type: Hermetic reciprocating
Technology Type: On-Off
Expansion Device: Capillary Tube / Expansion Valve
Packing Quantity: 100
Displacement: 12.92 cm³
Horse power: 1/2 hp

Approvals: **C** **RU** **US**

MECHANICAL DATA

Bore: 28 mm
Stroke: 21 mm
Oil Charge: 350ml
Oil Type Configuration: ESTER
Oil Type Viscosity: ISO22
Weight: 10.94 kg

ELECTRICAL DATA

Motor Type: CSIR
Starting Torque: LST/HST
Voltage working range at 60 Hz: 104-140 V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 4.51 Ω (± 10%) at 25°C
Run Winding Resistance: 1.09 Ω (± 10%) at 25°C

MOUNTING ACCESSORIES

	Description	Code
Anchorage:	no	-
Overload Protector Bracket:	no	-
Capacitor Bracket:	no	-
Washer:	no	-
Pin:	no	-
Cover:	no	-
Grommets:	no	-
Sleeves:	no	-
Terminal:	no	-
Clip:	yes	13143000

ELECTRICAL COMPONENTS

	Component type Description	Code
Run Capacitor:	12UF - 176V	
Start Capacitor:	233-280UF - 110V	
Motor Protection:	MRP36ALK-5590	
Start Capacitor:	64-77 124-149UF - 250V	

EXTERNAL CHARACTERISTICS

Base Plate: UNI V2
Tray Holder: No
Height: mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	8.2	Copper	Straight
Discharge Connector	8.2	Copper	Straight
Process Connector	6.5	Copper	Straight

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%
1 783	657	7.32	35.44	2.72

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

PERFORMANCE CURVE DATA

115V 60Hz

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	0	1 357	478	6.07	26.77	2.84
	-5	1 111	436	5.64	21.81	2.55
	-10	898	395	5.30	17.55	2.27
	-15	712	356	5.07	13.87	2.00
	-20	548	321	4.93	10.65	1.71

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	0	1 331	525	6.20	26.26	2.53
	-5	1 081	475	5.78	21.23	2.28
	-10	872	426	5.46	17.05	2.05
	-15	698	381	5.23	13.60	1.83
	-20	555	342	5.08	10.78	1.62

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	0	1 310	574	6.52	25.83	2.28
	-5	1 046	513	6.04	20.54	2.04
	-10	832	455	5.66	16.26	1.83

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

Model **FFU160HAX**

Code **51320300099ZA**

embraco POWER IN.
CHANGE ON.