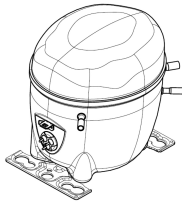


220V 60 1~

**GENERAL DATA****Application:** L/MBP**Refrigerant:** R134a**Evaporating Temperature Range:** -35°C to 5°C**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 hpApprovals: **CRAUS****MECHANICAL DATA****Bore:** 28 mm**Stroke:** 21 mm**Oil Charge:** 280ml**Oil Type Configuration:** ESTER**Oil Type Viscosity:** ISO22**Weight:** 10.85 kg**ELECTRICAL DATA****Motor Type:** CSIR**Starting Torque:** LST/HST**Voltage working range at 50 Hz:** 198-242 V**Voltage working range at 60 Hz:** 198-242 V**Maximum Motor Temperature:** 130 °C**Start Winding Resistance:** 11.8 Ω (± 10%) at 25°C**Run Winding Resistance:** 4.9 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	
Starting Device:	Relay	MTRPH-38-60*	
Starting Device:	Relay	213516035 213516043*	
Start Capacitor:		64-77 124- 149UF - 250V	513556517

EXTERNAL CHARACTERISTICS**Base Plate:** UNI V2**Tray Holder:** No**Height:** mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	6.5	Copper	Straight
Discharge Connector	6.5	Copper	Straight
Process Connector	8.2	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%
479	320	2.29	9.29	1.50

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporating: -23.3°C, Condensing: 54°C, Ambient: 32.2°C, Liquid: 32.2°C

PERFORMANCE CURVE DATA

220V 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	1 435	528	3.04	28.30	2.72
	-5	1 156	463	2.79	22.69	2.50
	-10	921	407	2.58	18.01	2.27
	-15	726	358	2.41	14.15	2.03
	-20	568	315	2.27	11.03	1.80
	-25	443	278	2.16	8.58	1.59
	-30	346	245	2.08	6.68	1.41
	-35	273	215	2.02	5.27	1.27

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	1 422	540	3.10	28.06	2.64
	-5	1 158	479	2.86	22.74	2.42
	-10	934	425	2.65	18.25	2.20
	-15	744	377	2.48	14.49	1.98
	-20	586	333	2.33	11.38	1.76
	-25	455	294	2.22	8.83	1.55
	-30	349	256	2.12	6.74	1.36
	-35	261	221	2.05	5.05	1.18

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%
55°C	0	1 369	582	3.27	27.01	2.35
	-5	1 121	518	3.01	22.01	2.16
	-10	907	460	2.78	17.73	1.97
	-15	724	405	2.58	14.09	1.79
	-20	566	354	2.40	11.00	1.60
	-25	432	305	2.24	8.37	1.42

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	-30	316	256	2.11	6.12	1.23

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Ambient: 32.2°C, Liquid: 32.2°C

Model **FFU160HAX**

Code **51320300199ZA**

embraco POWER IN.
CHANGE ON.