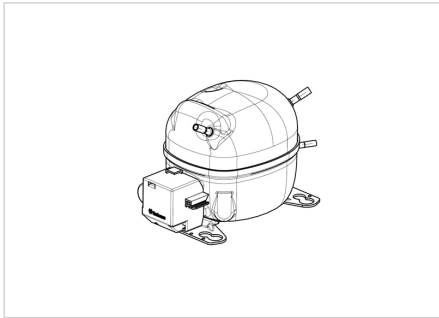


MODEL

EMYE70HEP

embraco

**APPROVALS****ENGINEERING CODE**

513306196

APPROVED REFRIGERANT

R-134a

POWER SUPPLY

220-240 V 60 Hz

STANDARD CONDITIONS

ASHRAE

APPLICATION

LBP

COOLING CAPACITY

200 W

EFFICIENCY

1.52 W/W

MOTOR TYPE

RSIR

STARTING TORQUE

LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.96 cm ³
Compressor Cooling	Static/Controlled/220
Expansion Device	Capillary Tube
Horse Power	1/5 hp
Power Supply	220-240 V 50 Hz / 220-240 V 60 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	19.95 Ω at 25° C
Run Winding Resistance	13.3 Ω at 25° C
Locked Rotor Amperage (LRA)	6.5 A
Rated Load Amperage (RLA) at 50 Hz	1.3 A
Rated Load Amperage (RLA) at 60 Hz	1.2 A

Mechanical Data

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	7.78 Kg

Electrical Components

	Description
Starting Device	PTC 7M220MC1 8EA17C1 QPS2-A22MG1
Motor Protection	4TM232RFBYY-53

External Characteristics

Tray Holder	Yes	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42° up + 45° to Back/Copper
Discharge	4.94 mm	Slanted parallel BP+24° to Back/Copper
Process	6.1 mm	Slanted 45° up + 45° to Back/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	200 W	131 W	0.85 A	3.91 kg/h	1.52 W/W

Test Condition: ASHRAE, Static/Controlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to ASHRAE guideline polynomial curve.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	127	84	0.67	2.50	1.5
-30	156	94	0.7	3.05	1.66
-25	193	106	0.74	3.75	1.82
-20	242	120	0.79	4.71	2.02
-15	308	137	0.86	6.02	2.24
-10	397	159	0.96	7.76	2.5

Test Condition: ASHRAE, Static/Controlled/220, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	115	89	0.71	2.29	1.29
-30	151	103	0.75	2.96	1.46
-25	191	118	0.8	3.73	1.62
-20	241	134	0.85	4.70	1.8
-15	305	152	0.92	5.96	2
-10	388	173	1.01	7.60	2.24

Test Condition: ASHRAE, Static/Controlled/220, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	99	88	0.71	2.00	1.13
-30	140	107	0.77	2.77	1.31
-25	183	125	0.83	3.59	1.46
-20	233	144	0.9	4.56	1.61
-15	295	165	0.97	5.76	1.79
-10	372	187	1.06	7.29	1.99

Test Condition: ASHRAE, Static/Controlled/220, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Wiring Diagram

