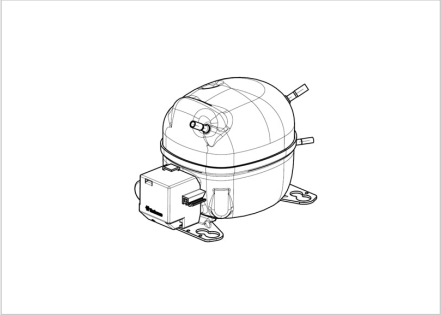
MODEL

EM2X1121U

embraco



APPROVALS

ENGINEERING CODE
513304013

COOLING CAPACITY
257 W

APPROVED REFRIGERANT
R-290

EFFICIENCY
1.72 W/W

POWER SUPPLY
220-240 V 50 Hz

MOTOR TYPE
RSCR

STANDARD CONDITIONS
ASHRAE

STARTING TORQUE
LST

APPLICATION
LBP

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.54 cm³
Compressor Cooling	Static/Controled/220
Expansion Device	Capillary Tube
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	12.6 Ω at 25° C
Run Winding Resistance	12.1 Ω at 25° C
Rated Load Amperage (RLA) at 50 Hz	2.45 A

Mechanical Data

Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	8.03 Kg

Electrical Components

	Description
Motor Protection	4TM283KFBYY-53
Run Capacitor	5
Starting Device	TSD2-220V TSD2-D-220V

External Characteristics

Tray Holder	No

Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42?up + 45? to Back/Copper
Discharge	4.94 mm	Slanted parallet 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	257 W	149 W	0.74 A	2.54 kg/h	1.72 W/W

Test Condition: ASHRAE, Static/Controled/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	157	104	0.58	1.57	1.51
-30	207	115	0.62	2.08	1.8
-25	265	126	0.65	2.67	2.11
-20	331	136	0.69	3.35	2.43
-15	406	149	0.73	4.14	2.72
-10	493	166	0.78	5.05	2.97

Test Condition: ASHRAE, Static/Controled/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	151	108	0.58	1.48	1.39
-30	199	123	0.64	1.97	1.61
-25	254	137	0.7	2.54	1.86
-20	319	150	0.76	3.21	2.13
-15	394	165	0.82	3.99	2.39
-10	480	183	0.9	4.89	2.62

Test Condition: ASHRAE, Static/Controled/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	137	111	0.58	1.32	1.24
-30	182	129	0.65	1.78	1.41
-25	235	145	0.72	2.32	1.63
-20	298	160	0.79	2.97	1.86
-15	371	176	0.87	3.73	2.11
-10	457	195	0.96	4.63	2.34

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