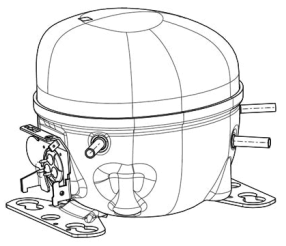
COMPRESSOR TECHNICAL DATA

EM2X3125U



ENGINEERING CODE
513304052

REFRIGERANT
R-290

POWER SUPPLY
115-127 V 60 Hz

APPLICATION
L/MBP

MOTOR TYPE
RSCR

STANDARD
AHRI

COOLING CAPACITY
654 W

EFFICIENCY
2.5 W/W

DATA

GENERAL DATA

Model	EM2X3125U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	L/MBP
Expansion Device	Capillary Tube
Compressor Cooling	Fan/115
HP	1/4+
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	5.41 Ω at 25°C
Run Winding Resistance	2.86 Ω at 25°C
Locked Rotor Amperage (LRA) 60Hz	16.8 A
Rated Load Amperage (LMBP) at 60 Hz	3.8 A
Rated Load Amperage (HBP) at 60 Hz	4.2 A

MECHANICAL DATA

Displacement	6.09 cm^3
Oil Charge	150 ml
Oil Type	ALQUILB
Oil Viscosity	ISO22
Weight	7.8 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Overload Protection	CP4TMC460N61 DRB46N61A*

EXTERNAL CHARACTERISTICS

Base Plate	UNI EUEM

Connector	Internal Diameter	Shape	Material
Suction	8.2 mm	STRAIGHT	COPPER
Discharge	6.5 mm	STRAIGHT	COPPER
Process	6.5 mm	STRAIGHT	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	AHRI
Tested Cooling	Fan
Tested Voltage	115 V
Tested Frequency	60 Hz
Max Refrigerant Charge	150 g
Refrigerant Temperature	Dew

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
43.3	-6.7	654	2.5	262	-	8.03

Test Condition: Subcooling 0 K, Return Gas 18.3 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	223	1.53	146	-	2.47
-30	280	1.73	162	-	3.12
-25	350	1.96	178	-	3.90
-20	432	2.22	195	-	4.83
-15	528	2.52	210	-	5.93
-10	640	2.86	224	-	7.23
-5	769	3.28	234	-	8.74
0	915	3.79	242	-	10.49

Test Condition: Subcooling 0 K, Return Gas 18.3 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	192	1.24	155	-	2.34
-30	245	1.41	174	-	2.99
-25	307	1.58	194	-	3.76
-20	381	1.77	215	-	4.68
-15	467	1.98	236	-	5.77
-10	566	2.22	255	-	7.03
-5	680	2.49	273	-	8.51
0	810	2.81	288	-	10.22

Test Condition: Subcooling 0 K, Return Gas 18.3 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	205	1.14	179	-	2.78
-25	261	1.29	203	-	3.56
-20	326	1.43	228	-	4.47
-15	401	1.58	253	-	5.53
-10	488	1.75	279	-	6.78
-5	587	1.94	303	-	8.23
0	700	2.15	325	-	9.90

Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	210	1.03	202	-	3.25
-20	266	1.15	231	-	4.16
-15	331	1.27	261	-	5.21
-10	405	1.39	292	-	6.44
-5	490	1.52	322	-	7.86
0	587	1.67	352	-	9.49

Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.

ENVELOPE