

EMT6144U



 **ENGINEERING CODE**
513306232

 **REFRIGERANT**
R-290

 **POWER SUPPLY**
220-240 V 50 Hz

 **APPLICATION**
MBP

 **MOTOR TYPE**
CSIR

 **STANDARD**
EN12900

 **COOLING CAPACITY**
336 W

 **EFFICIENCY**
1.95 W/W



DATA

GENERAL DATA

Model	EMT6144U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Static/220
HP	1/4-
Starting Torque	HST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	21.1 Ω at 25°C
Run Winding Resistance	14.4 Ω at 25°C

MECHANICAL DATA

Displacement	4.5 cm ³
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.8 Kg

ELECTRICAL COMPONENTS

Start Capacitor	43-53 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	DRB180K52AXF

EXTERNAL CHARACTERISTICS

Base Plate	SMALL EUEM
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
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

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Static
Tested Voltage	220 V
Tested Frequency	50 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
45	-10	336	1.95	172	-	4.13

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

PERFORMANCE CURVE**Condensing Temperature 35°C**

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	258	1.89	136	-	2.86
-15	318	2.20	145	-	3.54
-10	388	2.54	153	-	4.35
-5	471	2.93	161	-	5.30
0	565	3.40	166	-	6.42
5	673	4.01	168	-	7.70
10	794	4.81	165	-	9.18

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

PERFORMANCE CURVE**Condensing Temperature 45°C**

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	223	1.47	151	-	2.71
-15	274	1.71	161	-	3.36
-10	336	1.95	172	-	4.13
-5	408	2.22	184	-	5.05
0	491	2.52	195	-	6.13
5	585	2.88	204	-	7.39
10	692	3.31	209	-	8.83

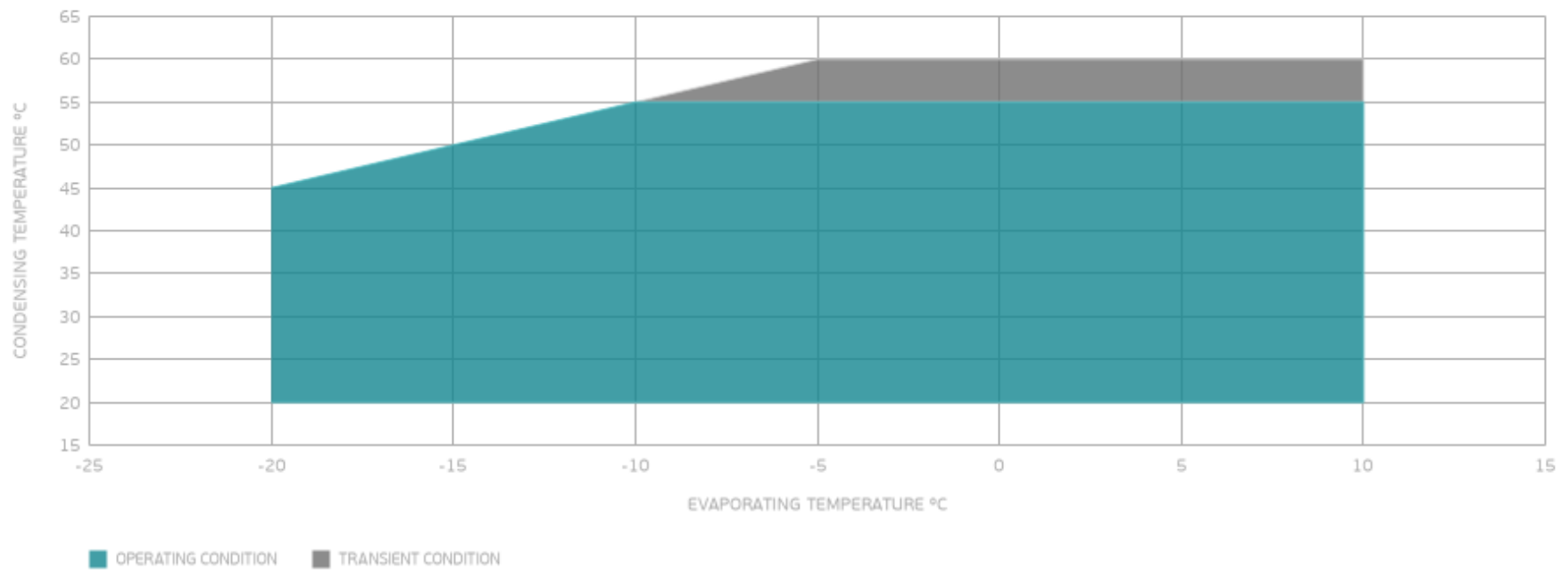
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

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
-10	284	1.54	184	-	3.90
-5	345	1.74	198	-	4.77
0	416	1.95	213	-	5.81
5	497	2.18	228	-	7.02
10	590	2.45	241	-	8.43

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS

