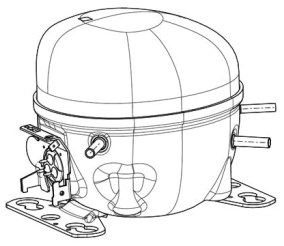
COMPRESSOR TECHNICAL DATA

EMT6144U



ENGINEERING CODE
513306232

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
365 W

EFFICIENCY
1.9 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 cm³
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	ASHRAE
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
54.4	-6.7	365	1.9	193	1.2	4.18

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	331	2.43	136	0.99	3.19
-15	406	2.81	144	1.03	3.93
-10	499	3.25	153	1.06	4.84
-5	608	3.77	161	1.09	5.92
0	731	4.40	166	1.11	7.17
5	868	5.19	167	1.12	8.57
10	1019	6.25	163	1.13	10.13

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	272	1.79	152	1.01	2.83
-15	331	2.05	161	1.06	3.46
-10	406	2.35	173	1.11	4.26
-5	496	2.68	185	1.15	5.23
0	599	3.06	196	1.19	6.36
5	715	3.49	205	1.22	7.64
10	843	4.01	210	1.25	9.08

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

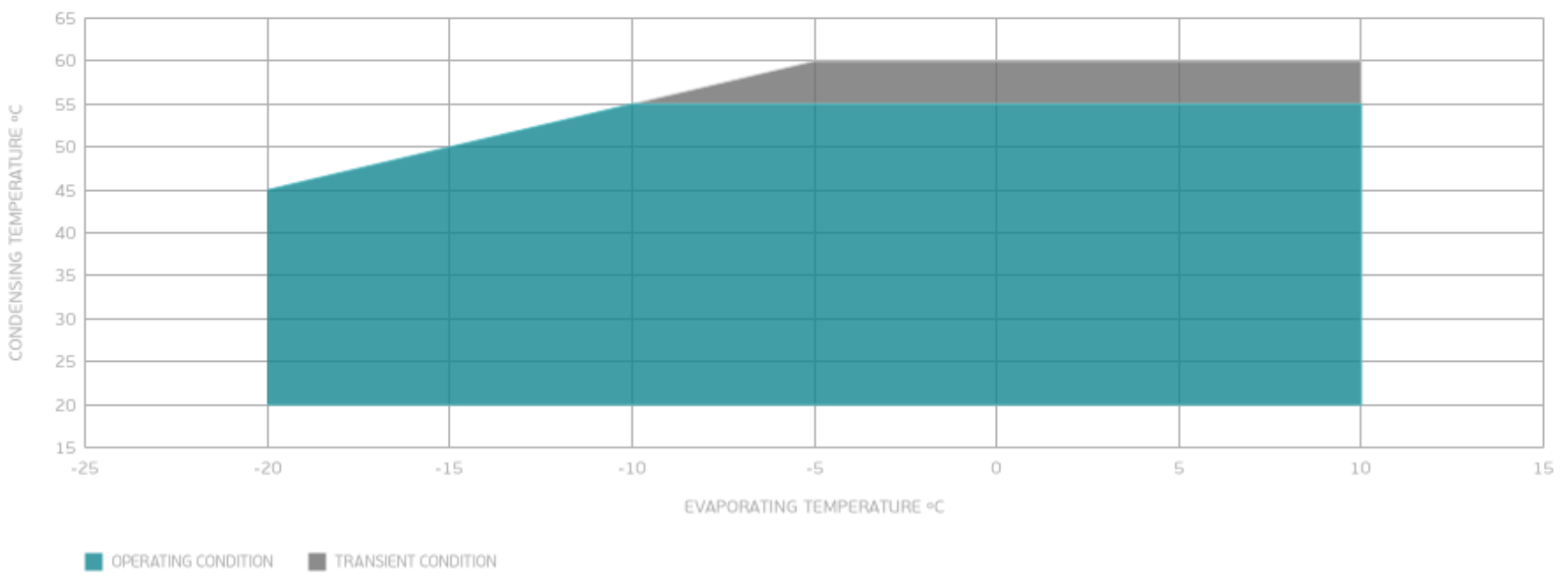
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	315	1.71	184	1.17	3.61
-5	385	1.94	198	1.23	4.43
0	467	2.18	214	1.28	5.42
5	562	2.45	229	1.33	6.57
10	667	2.75	242	1.37	7.87

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS