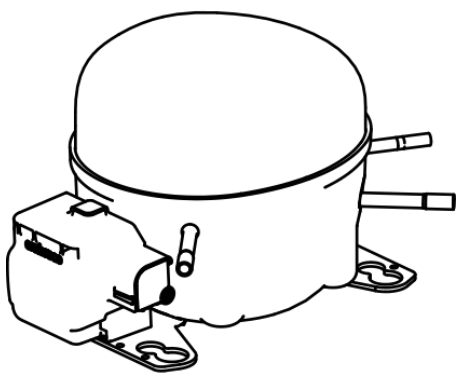
COMPRESSOR TECHNICAL DATA

EMT6165U



ENGINEERING CODE
513306254

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
473 W

EFFICIENCY
1.91 W/W

DATA

GENERAL DATA

Model	EMT6165U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/3-
Starting Torque	HST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	18.99 Ω at 25°C
Run Winding Resistance	9.92 Ω at 25°C

MECHANICAL DATA

Displacement	5.96 cm^3
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.9 Kg

ELECTRICAL COMPONENTS

Start Capacitor	64-77 µf/320 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0571/G6

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 mm	SLANTED 43° UP + 45° TO BACK	COPPER(OD)

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Fan
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	473	1.91	247	-	5.82

Test Condition: Subcooling 0 K, Return Gas 20 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
-20	370	1.86	199	-	4.10
-15	445	2.12	210	-	4.96
-10	534	2.40	223	-	5.98
-5	639	2.72	235	-	7.20
0	763	3.12	245	-	8.65
5	907	3.63	250	-	10.39
10	1075	4.33	248	-	12.44

Test Condition: Subcooling 0 K, Return Gas 20 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
-20	325	1.47	221	-	3.96
-15	393	1.69	232	-	4.81
-10	473	1.91	247	-	5.82
-5	566	2.14	264	-	7.01
0	676	2.40	281	-	8.44
5	804	2.72	296	-	10.15
10	954	3.11	306	-	12.16

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

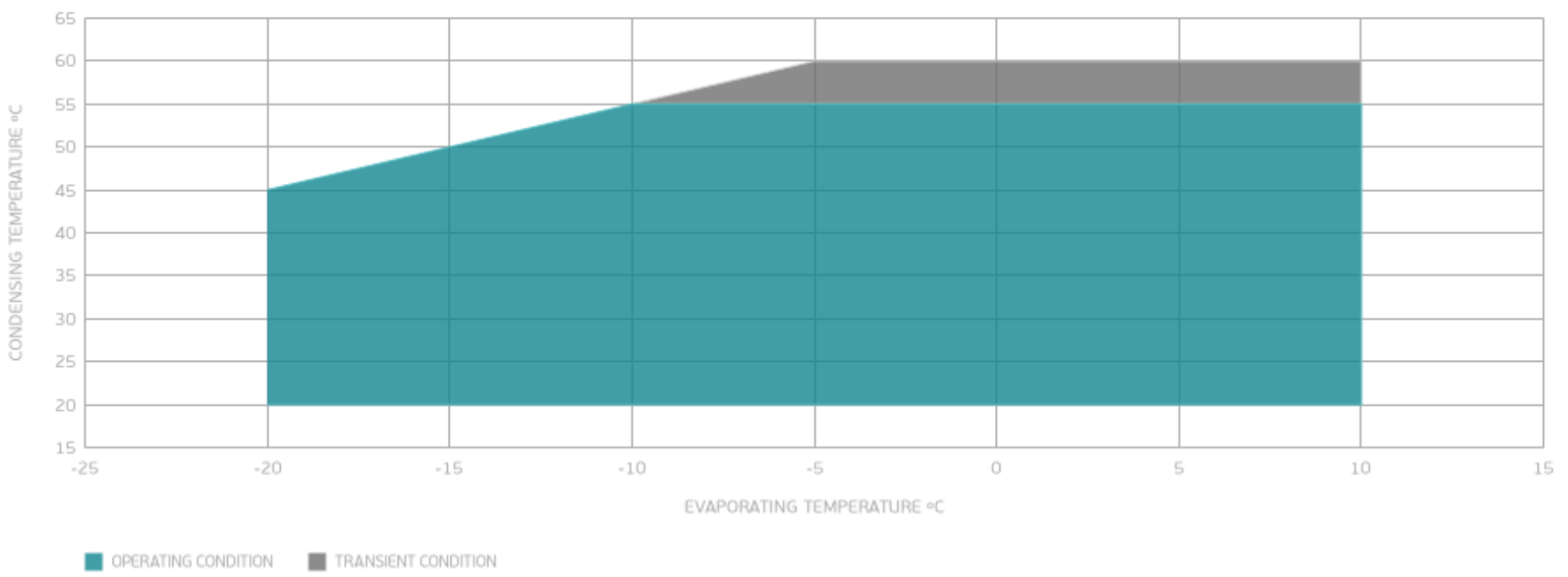
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	406	1.56	261	-	5.58
-5	488	1.74	281	-	6.76
0	584	1.93	303	-	8.16
5	696	2.15	324	-	9.83
10	827	2.40	344	-	11.82

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

ENVELOPE



EXTERNAL DIMENSIONS