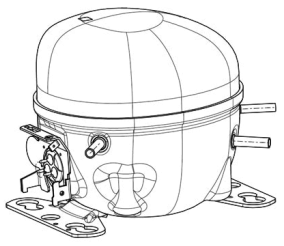
COMPRESSOR TECHNICAL DATA

EMT6165GK



ENGINEERING CODE
513306212

REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
516 W

EFFICIENCY
1.67 W/W

DATA

GENERAL DATA

Model	EMT6165GK
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	18.8 Ω at 25°C
Run Winding Resistance	10.9 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	10.4 A
Rated Load Amperage (LMBP) at 50 Hz	2.6 A
Rated Load Amperage (HBP) at 50 Hz	2.8 A

MECHANICAL DATA

Displacement	5.19 cm^3
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.8 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 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	6.1 mm	SLANTED 45° UP + 45° TO BACK	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-404A
Tested Application	MBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 Hz
Max Refrigerant Charge	250 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	516	1.67	310	1.89	14.08

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 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	523	2.44	214	1.59	11.36
-15	645	2.76	234	1.64	14.09
-10	792	3.12	254	1.69	17.41
-5	963	3.54	272	1.75	21.31
0	1154	4.04	285	1.81	25.78
5	1365	4.69	291	1.87	30.81
10	1593	5.57	286	1.94	36.38

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	403	1.72	235	1.63	9.66
-15	496	1.95	255	1.69	11.98
-10	613	2.20	279	1.76	14.88
-5	750	2.46	305	1.84	18.36
0	906	2.75	330	1.91	22.40
5	1079	3.08	350	1.99	26.99
10	1267	3.48	364	2.07	32.12

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

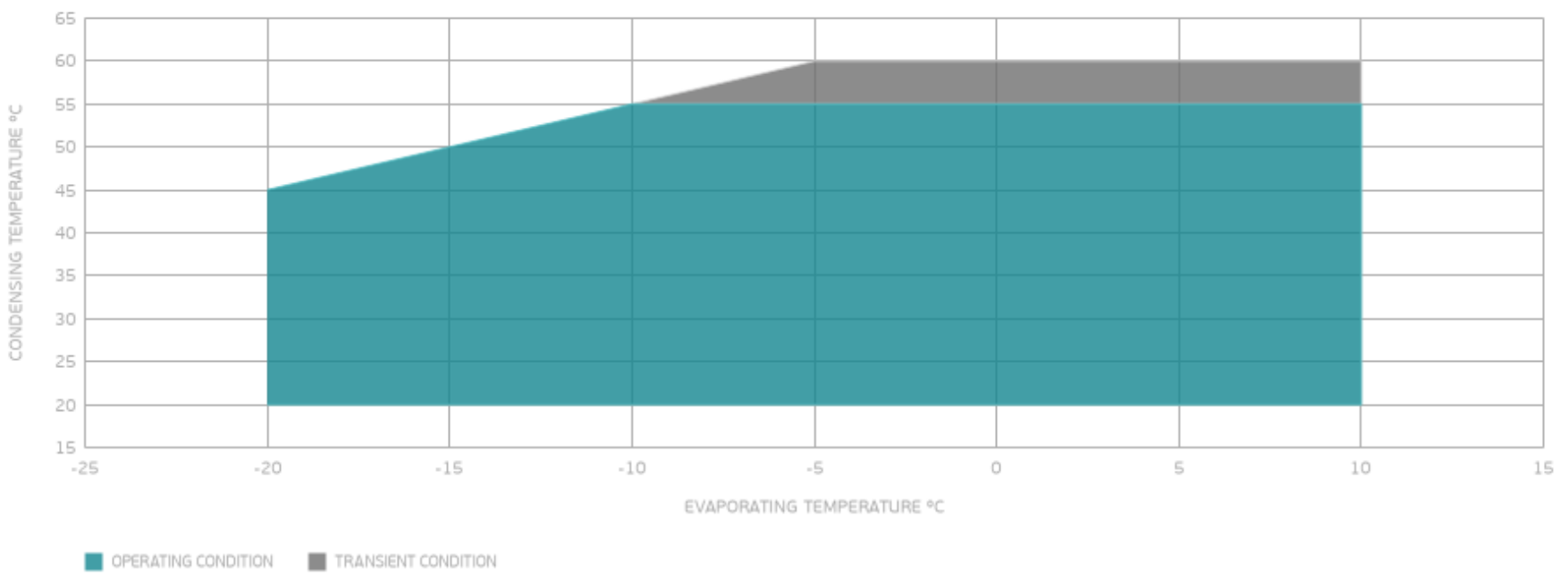
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	439	1.51	291	1.83	11.99
-5	542	1.69	320	1.93	14.94
0	662	1.88	352	2.03	18.45
5	797	2.08	384	2.12	22.51
10	945	2.29	412	2.22	27.09

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