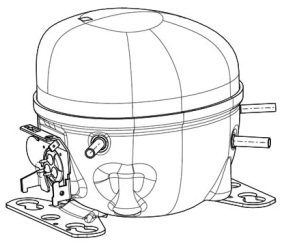
COMPRESSOR TECHNICAL DATA

EM65HHR



ENGINEERING CODE
513307343

REFRIGERANT
R-134a

POWER SUPPLY
220 V 50-60 Hz

APPLICATION
M/HBP

MOTOR TYPE
RSIR/CSIR

STANDARD
AHRI

COOLING CAPACITY
512 W

EFFICIENCY
1.88 W/W

DATA

GENERAL DATA

Model	EM65HHR
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	M/HBP
Expansion Device	Capillary Tube
Compressor Cooling	Fan/220
HP	1/6+
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	28.2 Ω at 25°C
Run Winding Resistance	10.7 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	14.3 A
Locked Rotor Amperage (LRA) 60Hz	13.9 A
Rated Load Amperage (HBP) at 50 Hz	2.4 A
Rated Load Amperage (HBP) at 60 Hz	2 A

MECHANICAL DATA

Displacement	5.54 cm^3
Oil Charge	160 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.6 Kg

ELECTRICAL COMPONENTS

Start Capacitor	88-108 µf/220 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	4TM743KDBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	UNI V2

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-134a
Tested Application	HBP
Tested Standard	AHRI
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	7.2	512	1.88	272	-	13.7

Test Condition: Subcooling 0 K, Return Gas 18.3 °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
-5	347	1.65	210	-	8.21
0	434	1.88	231	-	10.37
5	537	2.18	246	-	12.92
10	650	2.54	257	-	15.79
15	769	2.93	263	-	18.93

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

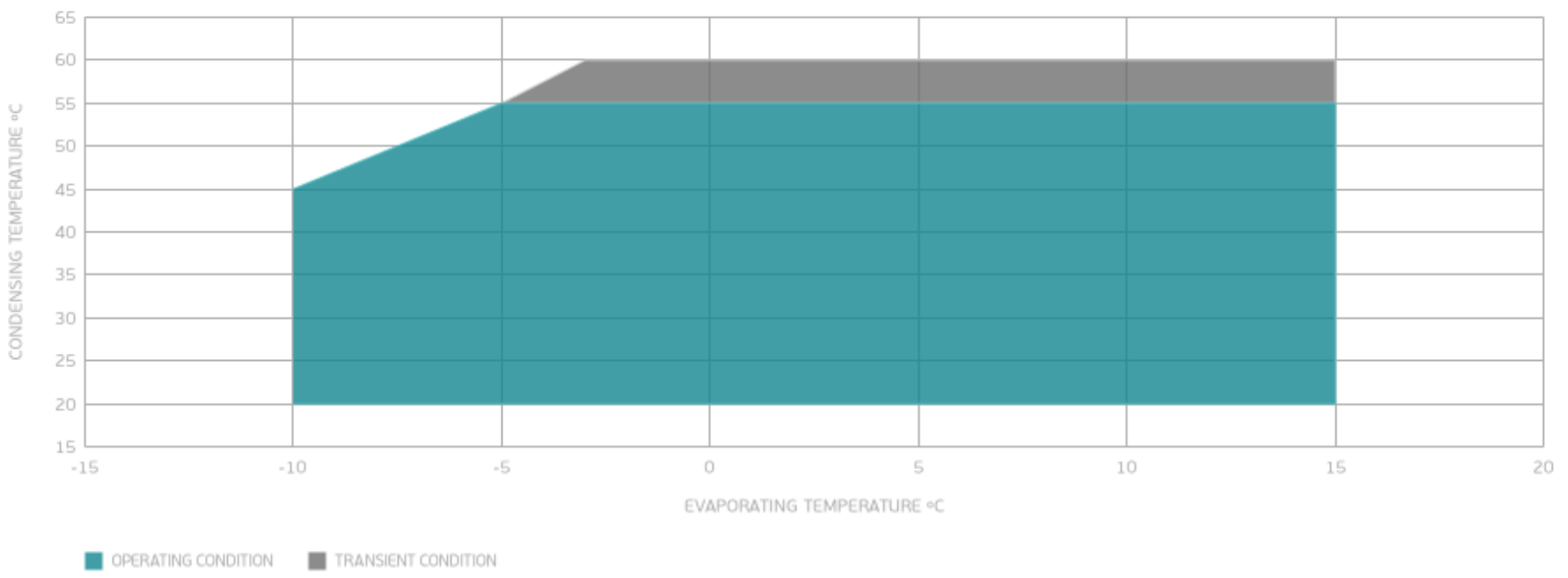
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-5	300	1.33	225	-	7.92
0	376	1.53	246	-	10.01
5	465	1.75	265	-	12.47
10	563	1.99	283	-	15.26
15	665	2.22	300	-	18.31

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

ENVELOPE



EXTERNAL DIMENSIONS