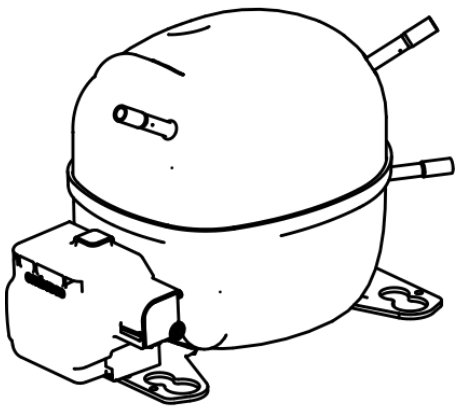
COMPRESSOR TECHNICAL DATA

EM55HHR



ENGINEERING CODE
513307294

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
HBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
417 W

EFFICIENCY
2.26 W/W

DATA

GENERAL DATA

Model	EM55HHR
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube
Compressor Cooling	Fan/220
HP	1/6
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	45.15 Ω at 25°C
Run Winding Resistance	15.25 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	8.6 A
Locked Rotor Amperage (LRA) 60Hz	8.4 A
Rated Load Amperage (LMBP) at 50 Hz	1.5 A
Rated Load Amperage (LMBP) at 60 Hz	1 A
Rated Load Amperage (HBP) at 50 Hz	1.3 A
Rated Load Amperage (HBP) at 60 Hz	1.2 A

MECHANICAL DATA

Displacement	4.6 cm^3
Oil Charge	160 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.6 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	213514130
Overload Protection	4TM734KDBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	UNI V2
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	6.5 mm	STRAIGHT	COPPER
Discharge	6.5 mm	SLANTED	COPPER
Process	6.5 mm	STRAIGHT	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	EN12900
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
50	5	417	2.26	185	-	10.45

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
-5	300	1.96	153	-	7.03
0	366	2.18	168	-	8.65
5	446	2.52	177	-	10.62
10	539	2.93	184	-	12.94
15	642	3.37	190	-	15.62

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
0	316	1.75	181	-	8.33
5	384	1.98	194	-	10.20
10	462	2.23	207	-	12.38
15	548	2.46	222	-	14.88

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

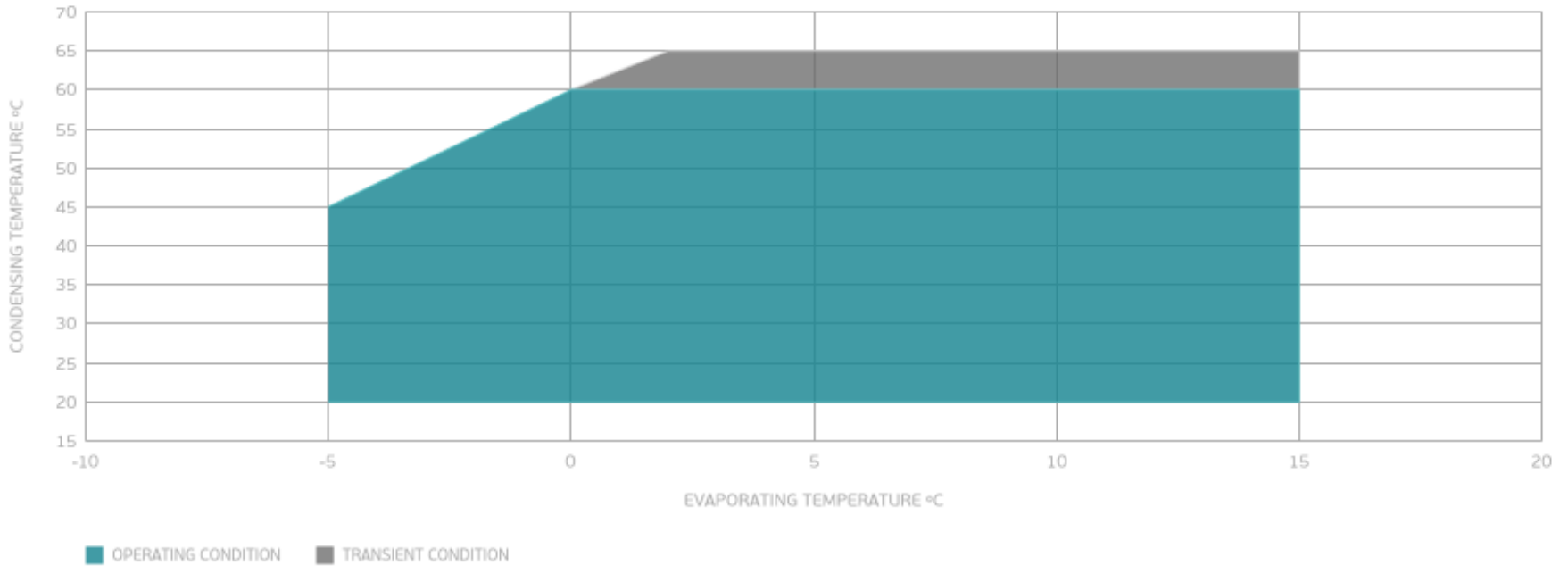
PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
5	314	1.53	204	-	9.45
10	378	1.71	221	-	11.51
15	447	1.85	241	-	13.85

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

ENVELOPE



EXTERNAL DIMENSIONS