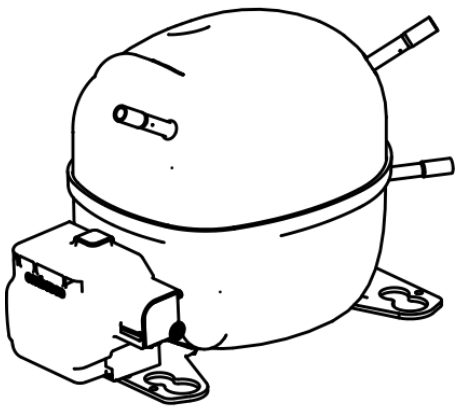
COMPRESSOR TECHNICAL DATA

EM45HHR



ENGINEERING CODE
513307269

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
L/M/HBP

MOTOR TYPE
RSIR/CSIR

STANDARD
EN12900

COOLING CAPACITY
340 W

EFFICIENCY
2.25 W/W

DATA

GENERAL DATA

Model	EM45HHR
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	L/M/HBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/8
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	38.0 Ω at 25°C
Run Winding Resistance	20.5 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	9.5 A
Locked Rotor Amperage (LRA) 60Hz	9 A
Rated Load Amperage (LMBP) at 50 Hz	1.1 A
Rated Load Amperage (LMBP) at 60 Hz	0.9 A

MECHANICAL DATA

Displacement	3.77 cm^3
Oil Charge	170 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.7 Kg

ELECTRICAL COMPONENTS

Start Capacitor	38-46 µf/220 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	213514130 213515004*
Overload Protection	4TM718MFBYY-53

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	EN12900
Tested Cooling	Static
Tested Voltage	220 V
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	340	2.25	151	-	8.54

Test Condition: Subcooling 0 K, Return Gas 20 ºC. 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
-35	45	0.61	73	-	1.03
-30	60	0.75	81	-	1.40
-25	81	0.91	89	-	1.88
-20	109	1.11	98	-	2.51
-15	143	1.33	108	-	3.31
-10	186	1.59	117	-	4.31
-5	237	1.88	126	-	5.53
0	297	2.23	133	-	7.01
5	368	2.64	139	-	8.77
10	449	3.12	144	-	10.84
15	542	3.72	146	-	13.24

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
-30	49	0.61	80	-	1.25
-25	68	0.76	90	-	1.75
-20	93	0.91	101	-	2.38
-15	122	1.08	113	-	3.15
-10	159	1.26	126	-	4.11
-5	202	1.46	139	-	5.27
0	253	1.68	151	-	6.66
5	313	1.93	162	-	8.31
10	382	2.21	173	-	10.25
15	461	2.55	181	-	12.51

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

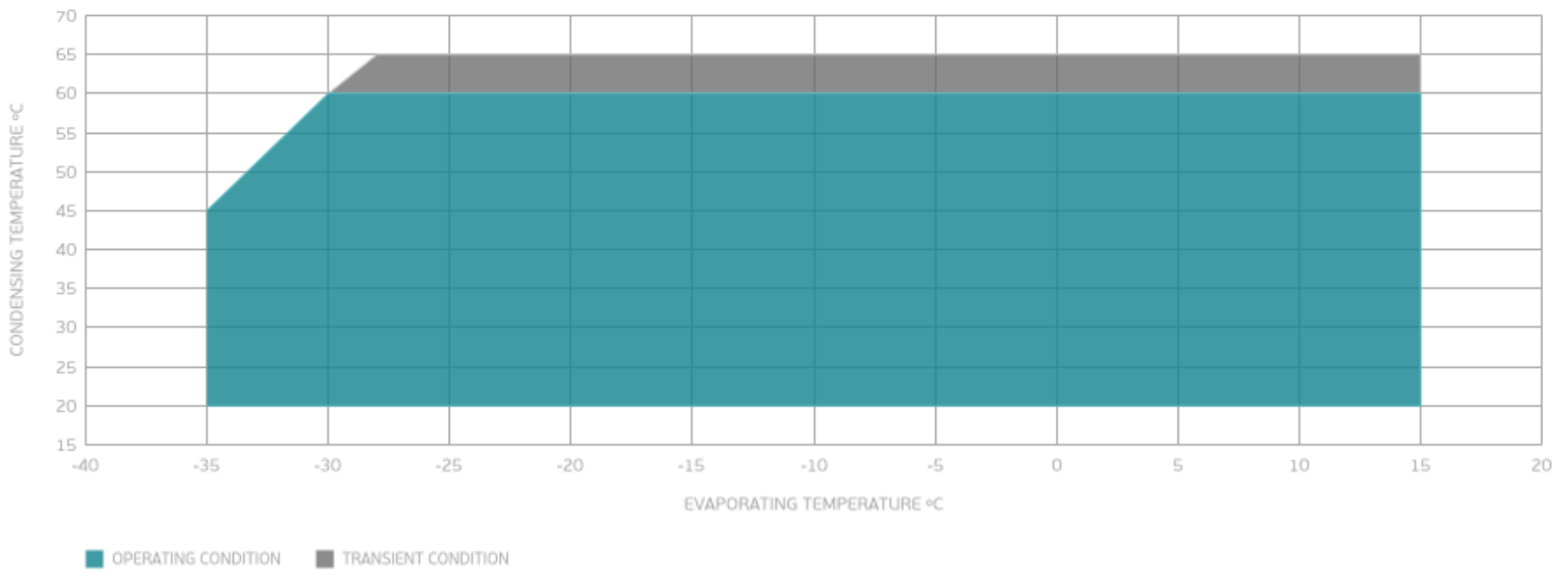
PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	50	0.58	86	-	1.45
-20	72	0.73	99	-	2.09
-15	99	0.86	114	-	2.87
-10	130	1.00	130	-	3.81
-5	166	1.13	147	-	4.93
0	209	1.28	163	-	6.27
5	259	1.44	180	-	7.84
10	316	1.61	196	-	9.68
15	382	1.81	211	-	11.81

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

ENVELOPE



External

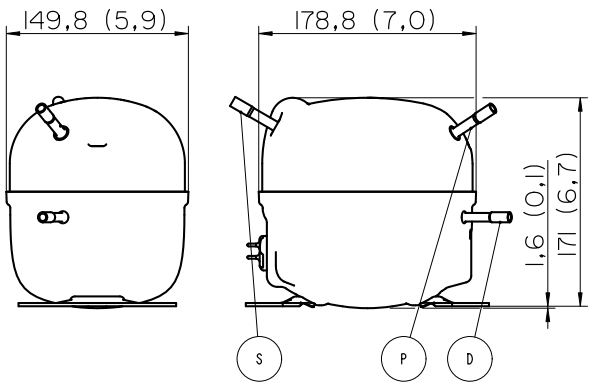
EXTERNAL CHARACTERISTICS

Base Plate	SMALL V2
Tray Holder	NO

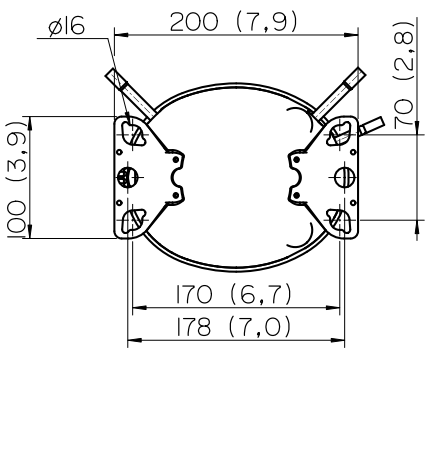
Connector	Internal Diameter	Shape	Material
Suction	6.5 mm	STRAIGHT	COPPER
Discharge	4.94 mm	SLANTED	COPPER
Process	6.5 mm	STRAIGHT	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE