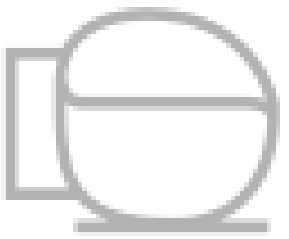
COMPRESSOR TECHNICAL DATA

EMT37HDP



ENGINEERING CODE
193EA94

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
HBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
317 W

EFFICIENCY
2.42 W/W

DATA

GENERAL DATA

Model	EMT37HDP
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
Starting Torque	LST
Plant	ITALY

ELECTRICAL DATA

Start Winding Resistance	31.2 Ω at 25°C
Run Winding Resistance	26.4 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	4.3 A

MECHANICAL DATA

Displacement	3.4 cm^3
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.2 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	V230
Overload Protection	T0225/07

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	317	2.42	131	-	7.96

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
-15	166	2.02	82	-	3.51
-10	211	2.35	90	-	4.48
-5	263	2.70	97	-	5.62
0	323	3.12	104	-	6.95
5	392	3.63	108	-	8.50
10	470	4.30	109	-	10.28

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
-15	141	1.62	87	-	3.26
-10	180	1.89	96	-	4.20
-5	227	2.15	106	-	5.32
0	281	2.42	116	-	6.63
5	342	2.73	126	-	8.15
10	412	3.09	134	-	9.91

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

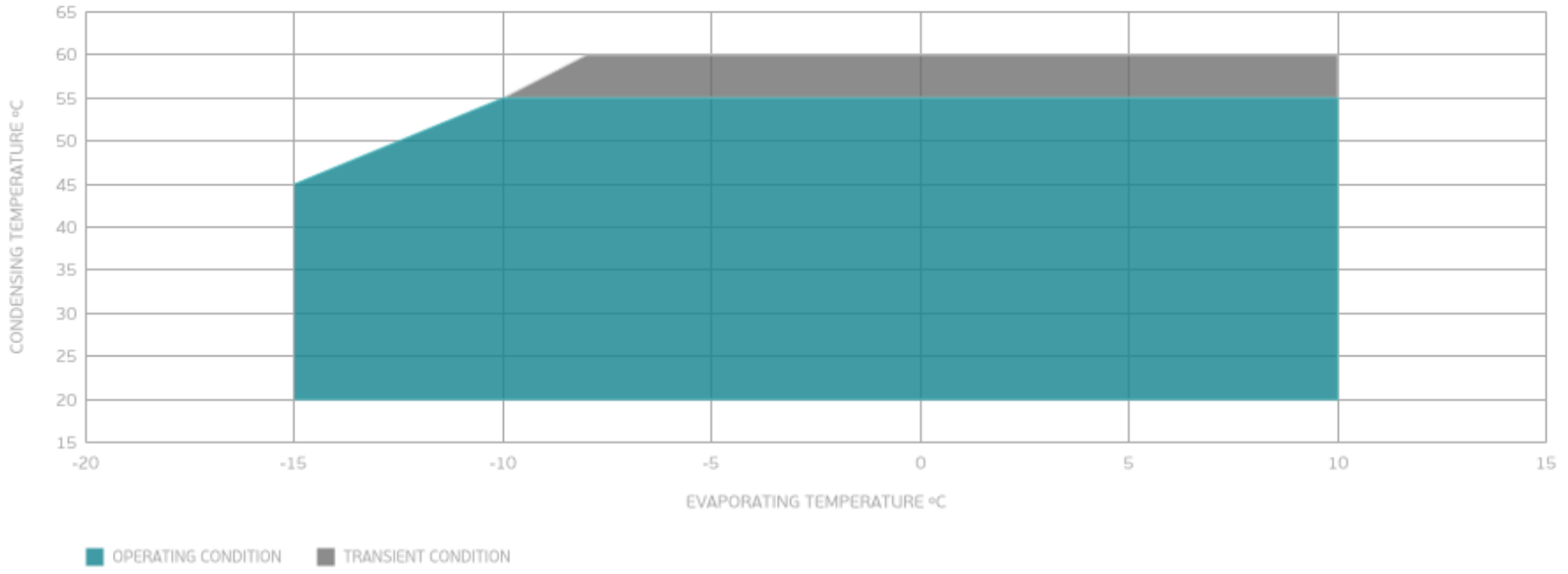
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	150	1.52	99	-	3.90
-5	191	1.74	110	-	4.98
0	238	1.95	122	-	6.26
5	292	2.16	135	-	7.75
10	354	2.38	148	-	9.48

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

ENVELOPE



External

EXTERNAL CHARACTERISTICS

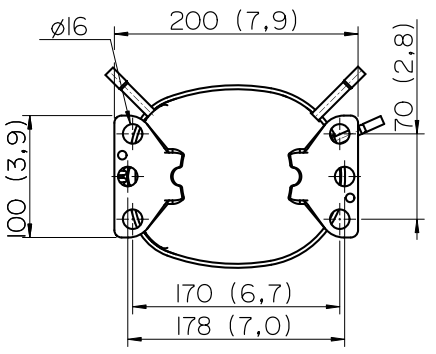
Base Plate	SMALL
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	4.94 mm	STRAIGHT	COPPER
Process	6 mm	SLANTED 42°	COPPER(OD)

EXTERNAL DIMENSIONS

SHELL

BASE



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