MODEL
EMT50HDP

APPROVALS

ENGINEERING CODE
194MA67

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
HBP

COOLING CAPACITY
418 W (HBP)

EFFICIENCY
2.47 W/W (HBP)

MOTOR TYPE
RSIR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	4.5 cm^3
Compressor Cooling	Static/NotControled/220
Expansion Device	Capillary Tube
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	33.6 Ω at 25° C
Run Winding Resistance	18.7 Ω at 25° C

Mechanical Data

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	7.7 Kg

Electrical Components

	Description
Starting Device	PTC | V230
Motor Protection	T0521/26

External Characteristics

Tray Holder	Yes

Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42?/Copper
Discharge	4.86 mm	Straight/Copper
Process	6.1 mm	Slanted 42?/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
50.00°C	5.00°C	418 W	169 W	10.53 kg/h	2.47 W/W

Test Condition: EN12900HBP, Static/NotControled/220, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C , Liquid 50°C, Subcooling 0K. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	218	102	4.61	2.13
-10	278	111	5.92	2.51
-5	350	120	7.47	2.92
0	432	128	9.28	3.37
5	524	136	11.35	3.85
10	627	144	13.70	4.36

Test Condition: EN12900HBP, Static/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	186	108	4.31	1.72
-10	238	120	5.55	1.98
-5	301	133	7.05	2.27
0	373	145	8.80	2.58
5	455	156	10.83	2.91
10	547	168	13.14	3.26

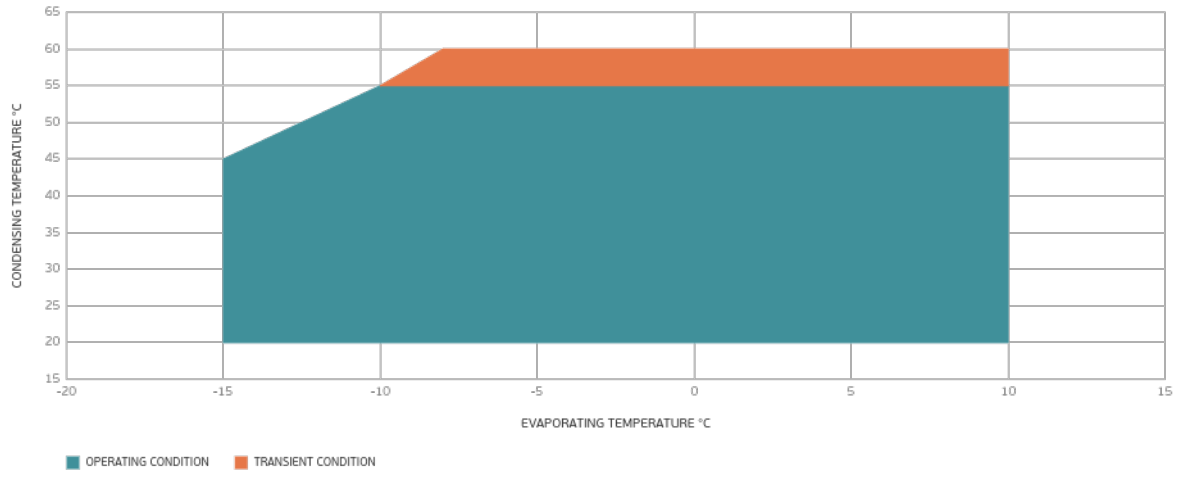
Test Condition: EN12900HBP, Static/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	157	116	4.06	1.35
-10	201	131	5.21	1.53
-5	254	146	6.62	1.74
0	316	161	8.30	1.96
5	387	175	10.26	2.21
10	466	189	12.51	2.47

Test Condition: EN12900HBP, Static/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions