MODEL
EMT37HDP

APPROVALS

ENGINEERING CODE
513306247

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
360 W (HBP)

EFFICIENCY
2.55 W/W (HBP)

MOTOR TYPE
RSIR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	3.4 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	31.7 Ω at 25° C
Run Winding Resistance	26.1 Ω at 25° C
Rated Load Amperage (RLA) at 50 Hz	1.35 A

Mechanical Data

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	7.24 Kg

Electrical Components

	Description
Starting Device	PTC | V230
Motor Protection	T0225/07

External Characteristics

Tray Holder	Yes	
Connector	**Internal Diameter**	**Shape**
Suction	6.1 mm	Slanted 42? up + 45? to Back/Copper
Discharge	4.94 mm	Slanted parallet BP+24?to Back/Copper
Process	6 mm	Slanted 43? up + 45? to Back/Copper(OD)

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	360 W	141 W	0.88 A	7.97 kg/h	2.55 W/W

Test Condition: ASHRAEHBP46, Static/NotControled/220, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C , Liquid 46.1°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	210	83	0.65	3.87	2.53
-10	267	90	0.68	4.93	2.95
-5	335	97	0.71	6.22	3.45
0	413	103	0.74	7.71	4.01
5	500	109	0.77	9.39	4.6
10	596	114	0.8	11.25	5.22

Test Condition: ASHRAEHBP46, Static/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	169	86	0.66	3.38	1.98
-10	215	96	0.7	4.30	2.25
-5	272	105	0.74	5.46	2.59
0	338	114	0.77	6.82	2.96
5	413	123	0.81	8.38	3.36
10	495	132	0.85	10.13	3.75

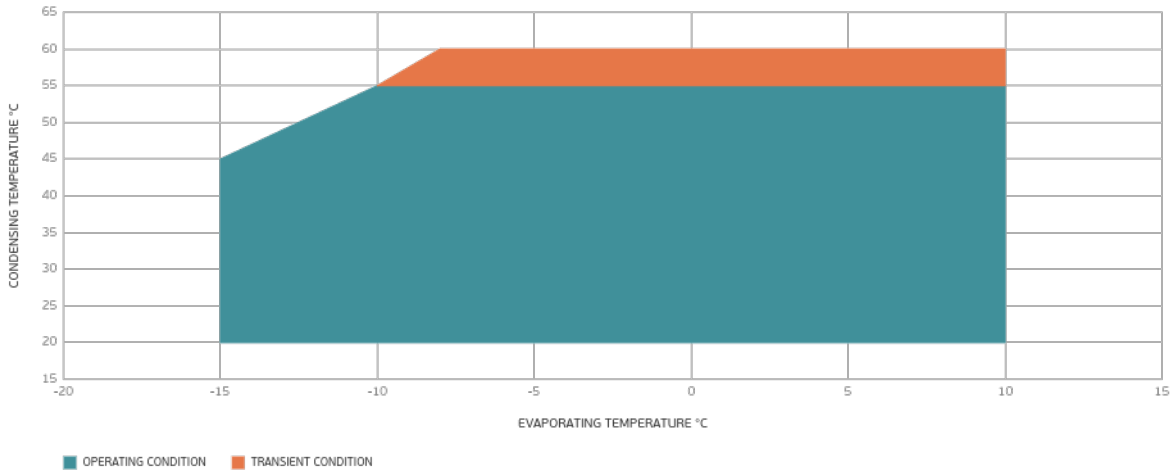
Test Condition: ASHRAEHBP46, Static/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	133	90	0.67	2.89	1.47
-10	166	102	0.72	3.64	1.64
-5	210	113	0.76	4.62	1.86
0	264	125	0.81	5.81	2.12
5	325	136	0.86	7.22	2.4
10	394	148	0.91	8.81	2.67

Test Condition: ASHRAEHBP46, Static/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope



External Dimensions