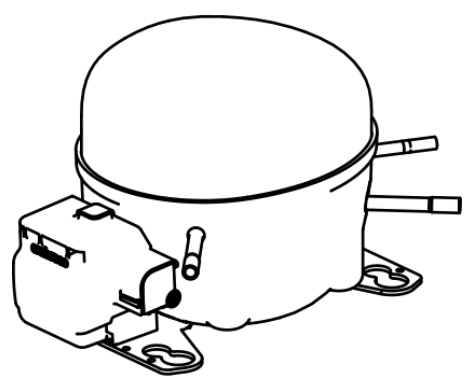


EMT45HDR



ENGINEERING CODE
513300259



REFRIGERANT
R-134a



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
HBP



MOTOR TYPE
CSIR



STANDARD
ASHRAE



COOLING CAPACITY
436 W



EFFICIENCY
2.65 W/W

DATA

GENERAL DATA

Model	EMT45HDR
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/7
Starting Torque	HST
Plant	CHINA

ELECTRICAL DATA

Start Winding Resistance	17.5 Ω at 25°C
Run Winding Resistance	16.6 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	8.8 A

MECHANICAL DATA

Displacement	4.15 cm³
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.8 Kg

ELECTRICAL COMPONENTS

Start Capacitor	64-77 µf/328 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	213515004* MTRP-0036*
Overload Protection	4TM730KFBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	SMALL EUEM
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.2 mm	SLANTED 40° UP + 45° TO BACK	COPPER
Discharge	6.1 mm	SLANTED 0° UP + 24° TO BACK	COPPER
Process	6.2 mm	SLANTED 40° UP + 45° TO BACK	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	ASHRAE
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
54.4	7.2	436	2.65	164	1	9.65
Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.						

PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	251	2.66	95	0.80	4.64
-10	319	3.09	104	0.82	5.91
-5	401	3.56	113	0.84	7.45
0	495	4.11	120	0.86	9.25
5	601	4.81	125	0.88	11.29
10	719	5.75	125	0.91	13.57
Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.					

PERFORMANCE CURVE

Condensing Temperature 45°C

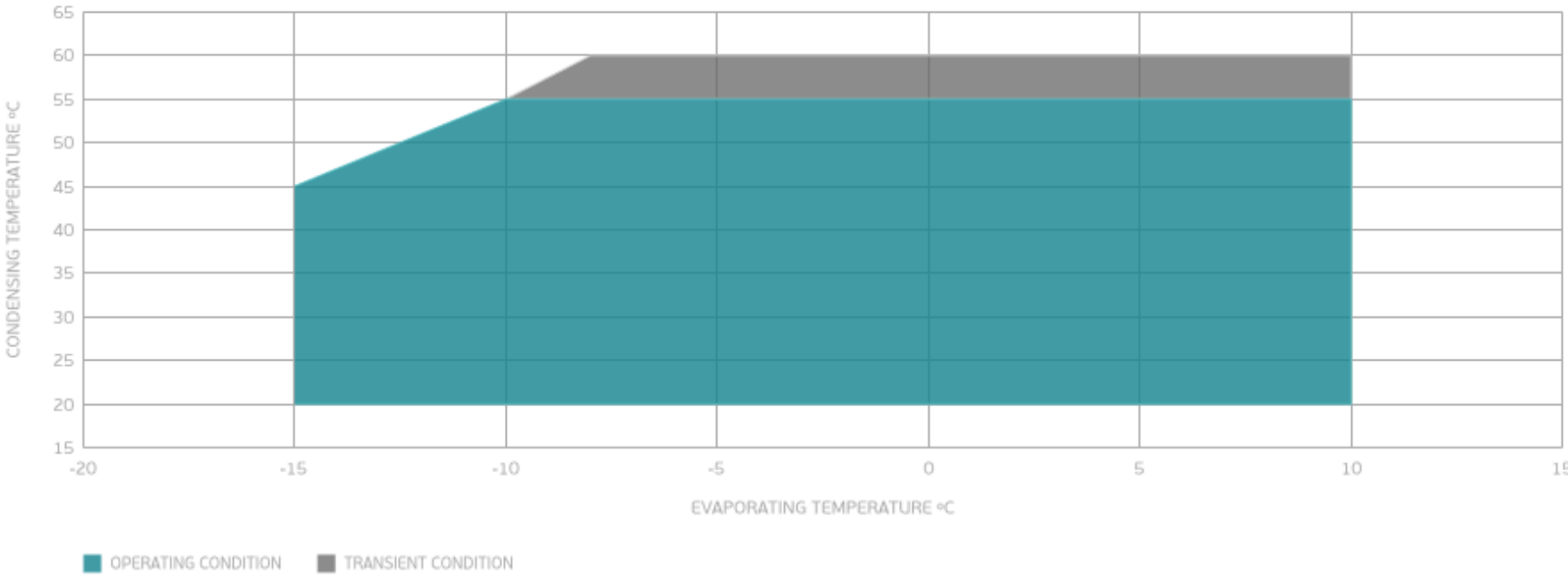
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	202	1.95	104	0.81	4.02
-10	257	2.28	113	0.84	5.14
-5	325	2.61	124	0.87	6.53
0	405	2.97	137	0.90	8.18
5	497	3.37	148	0.93	10.10
10	600	3.84	156	0.96	12.26
Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.					

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
-10	198	1.68	118	0.86	4.32
-5	251	1.95	129	0.90	5.51
0	317	2.21	143	0.94	6.97
5	393	2.48	158	0.99	8.71
10	479	2.77	173	1.03	10.70
Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.					

ENVELOPE



EXTERNAL DIMENSIONS

