

EMT49HLP



ENGINEERING CODE
513306066

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
78 W

EFFICIENCY
0.94 W/W

DATA

GENERAL DATA

Model	EMT49HLP
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	26.9 Ω at 25°C
Run Winding Resistance	17.5 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	5.9 A
Rated Load Amperage (LMBP) at 50 Hz	2.2 A

MECHANICAL DATA

Displacement	5.19 cm ³
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO10
Weight	8.3 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	V230
Overload Protection	T0062/07

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
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
40	-35	78	0.94	82	-	1.71

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

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
-35	83	1.03	80	-	1.74
-30	110	1.22	90	-	2.31
-25	145	1.44	101	-	3.06
-20	191	1.70	113	-	4.03
-15	247	1.99	124	-	5.23
-10	314	2.32	135	-	6.68

Test Condition: Subcooling 0 K, Return Gas 20 °C. 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	72	0.86	84	-	1.66
-30	96	1.01	95	-	2.22
-25	128	1.18	108	-	2.95
-20	168	1.37	123	-	3.87
-15	216	1.57	138	-	5.02
-10	275	1.80	153	-	6.40

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	80	0.82	97	-	2.04
-25	108	0.96	112	-	2.76
-20	142	1.10	129	-	3.65
-15	184	1.25	147	-	4.75
-10	234	1.42	165	-	6.07

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

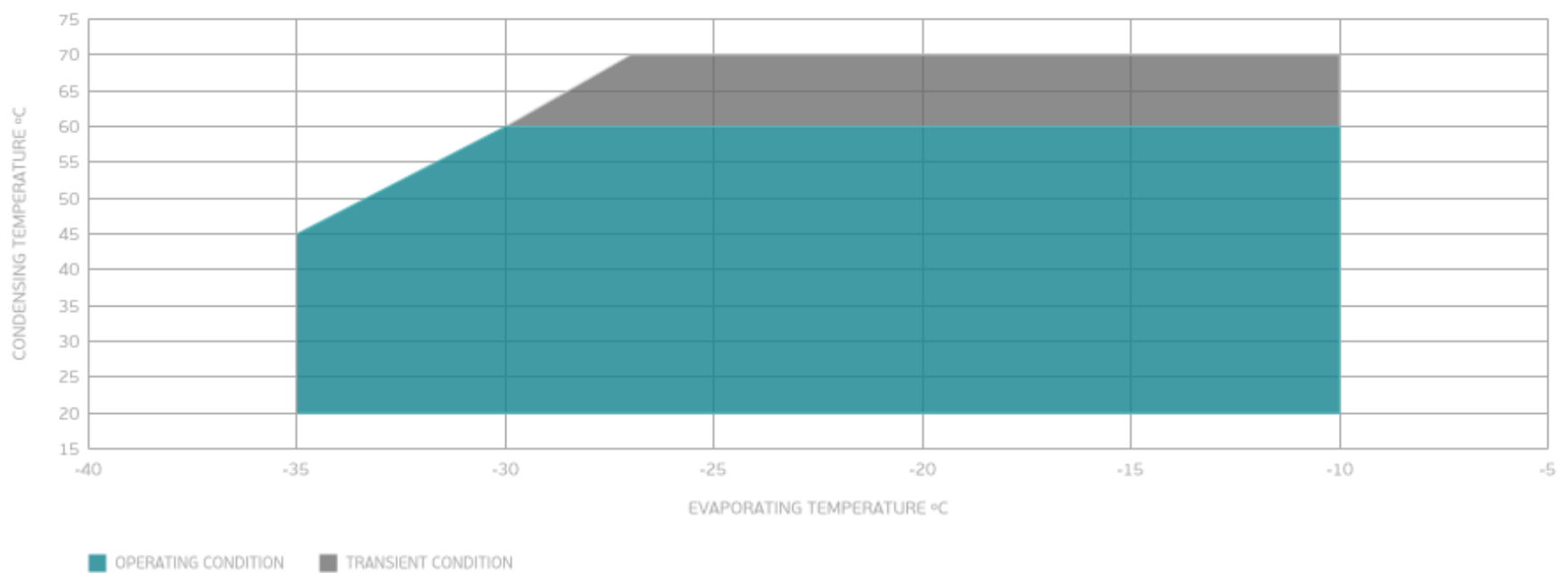
PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	84	0.77	110	-	2.44
-20	114	0.89	128	-	3.30
-15	149	1.00	149	-	4.35
-10	191	1.12	171	-	5.62

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

ENVELOPE



EXTERNAL CHARACTERISTICS

Base Plate		SMALL EUEM
Tray Holder		NO

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42° UP + 45° TO BACK	COPPER
Discharge	4.94 mm	SLANTED PARALLET BP+24°TO BACK	COPPER
Process	6.1 mm	SLANTED 45° UP + 45° TO BACK	COPPER

EXTERNAL DIMENSIONS

