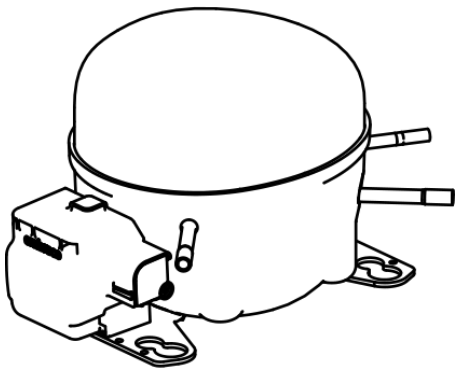
COMPRESSOR TECHNICAL DATA

EMIE30HER



ENGINEERING CODE
513306100

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
L/MBP

MOTOR TYPE
RSIR/CSIR

STANDARD
EN12900

COOLING CAPACITY
148 W

EFFICIENCY
1.9 W/W

DATA

GENERAL DATA

Model	EMIE30HER
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	L/MBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	46.15 Ω at 25°C
Run Winding Resistance	24.65 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	7.5 A
Locked Rotor Amperage (LRA) 60Hz	7 A
Rated Load Amperage (LMBP) at 50 Hz	0.8 A
Rated Load Amperage (LMBP) at 60 Hz	0.7 A

MECHANICAL DATA

Displacement	2.83 cm^3
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO10
Weight	7.2 Kg

ELECTRICAL COMPONENTS

Start Capacitor	72-88 µf/145 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	213514032 213515225*
Overload Protection	4TM189KFBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	UNI EUEM
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.5 mm	SLANTED 42º UP + 45° TO BACK	COPPER
Discharge	4.94 mm	SLANTED 30° UP + 24° TO BACK	COPPER
Process	6.5 mm	SLANTED 45° UP + 45° TO BACK	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Static
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
45	-10	148	1.9	78	-	3.46

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	32	0.70	45	-	0.73
-30	47	0.93	51	-	1.09
-25	67	1.16	58	-	1.54
-20	90	1.39	65	-	2.08
-15	117	1.63	72	-	2.72
-10	148	1.90	78	-	3.46
-5	183	2.19	84	-	4.29

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	34	0.65	52	-	0.86
-25	51	0.84	60	-	1.29
-20	71	1.04	68	-	1.82
-15	94	1.23	77	-	2.44
-10	122	1.44	85	-	3.15
-5	152	1.66	92	-	3.97

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

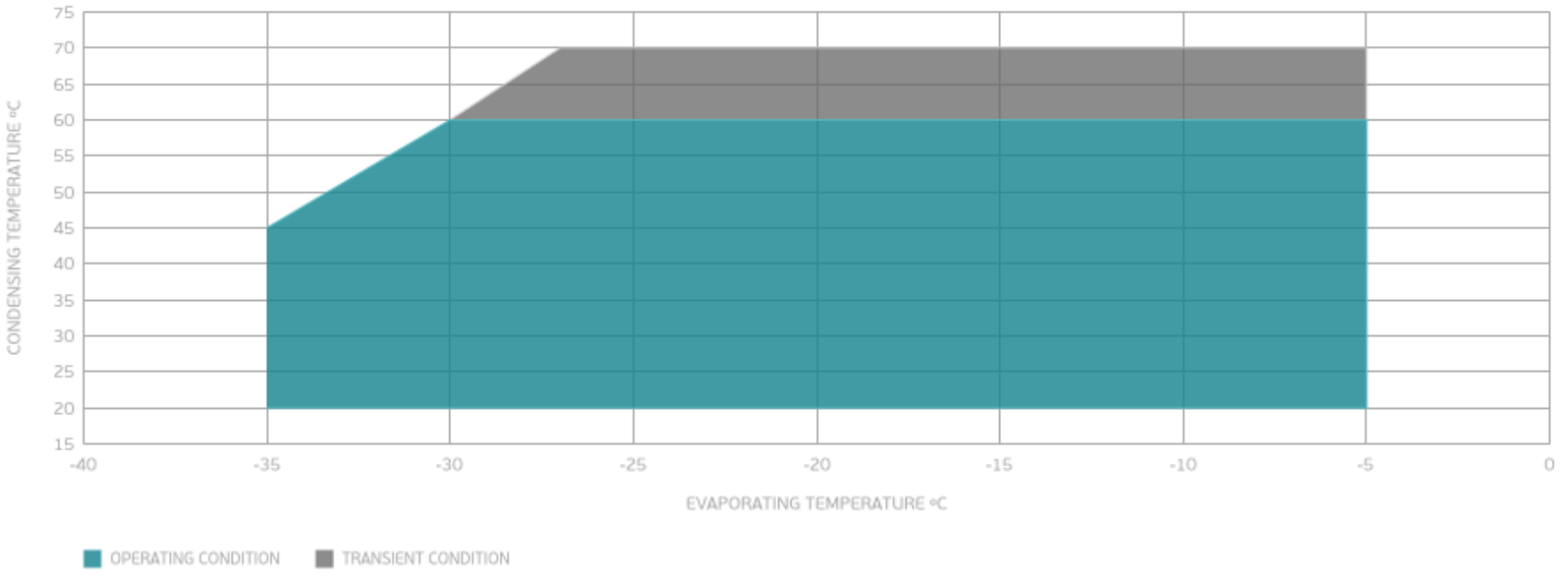
PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	35	0.61	57	-	1.00
-20	52	0.77	67	-	1.50
-15	72	0.92	78	-	2.10
-10	95	1.08	88	-	2.79
-5	121	1.25	97	-	3.59

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

ENVELOPE



EXTERNAL DIMENSIONS

