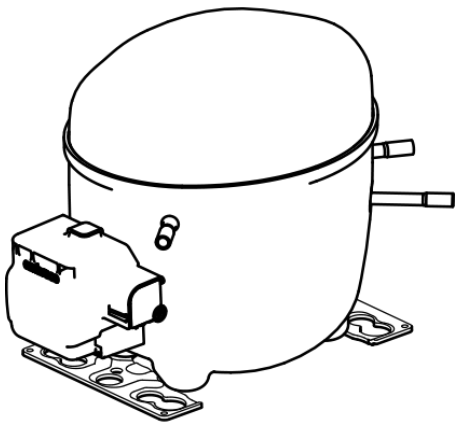
COMPRESSOR TECHNICAL DATA

EGAS100HLR



ENGINEERING CODE
513701183

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
LBP

MOTOR TYPE
RSIR/CSIR

STANDARD
ASHRAE

COOLING CAPACITY
250 W

EFFICIENCY
1.51 W/W

DATA

GENERAL DATA

Model	EGAS100HLR
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/3
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	36.2 Ω at 25°C
Run Winding Resistance	8.8 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	16.9 A
Locked Rotor Amperage (LRA) 60Hz	16 A
Rated Load Amperage (LMBP) at 50 Hz	2.1 A
Rated Load Amperage (LMBP) at 60 Hz	1.9 A
Rated Load Amperage (HBP) at 50 Hz	2.4 A
Rated Load Amperage (HBP) at 60 Hz	2.2 A

MECHANICAL DATA

Displacement	7.95 cm^3
Oil Charge	230 ml
Oil Type	ESTER
Oil Viscosity	ISO10
Weight	10.9 Kg

ELECTRICAL COMPONENTS

Start Capacitor	88-108 µf/180 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	213516442 213516469*
Overload Protection	4TM757KFBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	SMALL V2
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	8.2 mm	STRAIGHT	COPPER
Discharge	6.5 mm	STRAIGHT	COPPER
Process	6.5 mm	SLANTED	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
Tested Standard	ASHRAE
Tested Cooling	Static
Tested Voltage	220 V
Tested Frequency	50 Hz
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	-23.3	250	1.51	166	1.36	4.85

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	129	1.17	110	0.94	2.49
-30	179	1.38	130	1.10	3.47
-25	241	1.60	151	1.26	4.66
-20	315	1.83	172	1.42	6.11
-15	403	2.08	194	1.59	7.85
-10	506	2.33	217	1.79	9.90

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	162	1.24	131	1.10	3.14
-25	225	1.43	157	1.29	4.36
-20	299	1.63	183	1.49	5.81
-15	386	1.83	211	1.70	7.52
-10	486	2.03	240	1.94	9.51

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

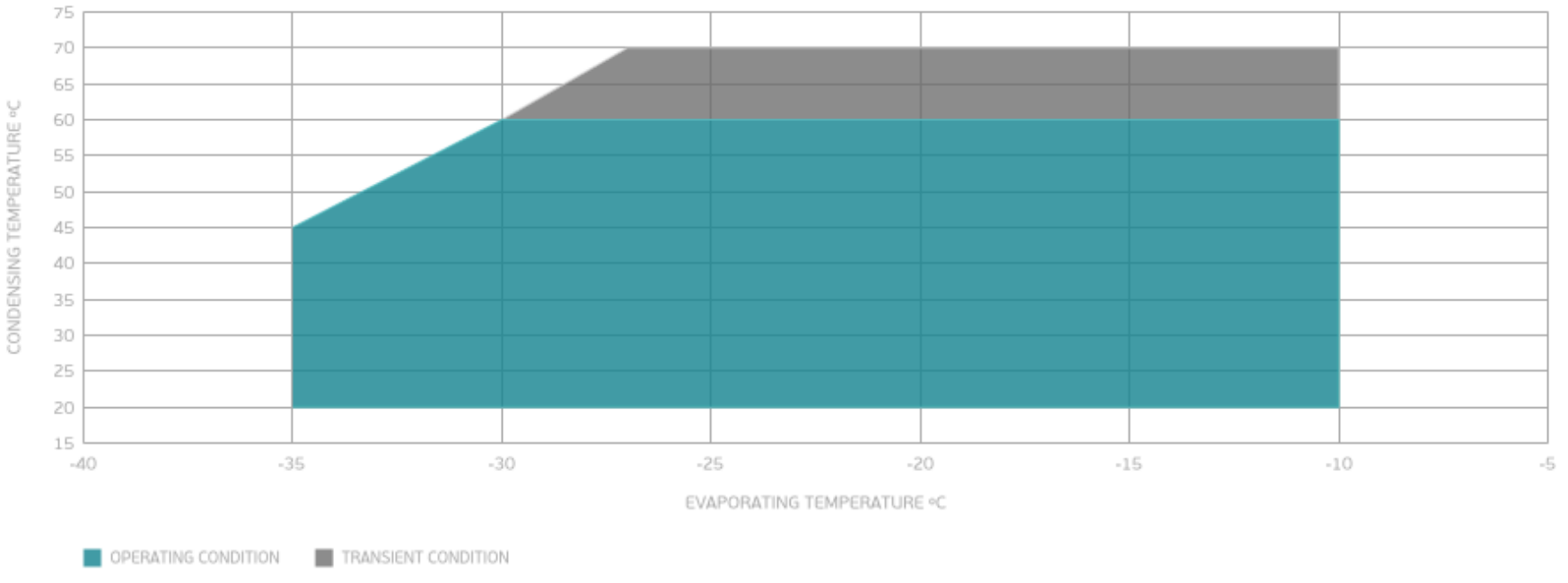
PERFORMANCE CURVE

Condensing Temperature 65ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	198	1.29	153	1.30	3.85
-20	273	1.47	186	1.56	5.31
-15	360	1.64	220	1.83	7.02
-10	459	1.80	255	2.11	8.99

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS