

COMPRESSOR TECHNICAL DATA



EGAS100CLP



ENGINEERING CODE
513701421



REFRIGERANT
R-600a



POWER SUPPLY
220 V 50-60 Hz



APPLICATION
LBP



MOTOR TYPE
RSIR



STANDARD
ASHRAE



COOLING CAPACITY
298 W



EFFICIENCY
1.54 W/W

DATA

GENERAL DATA

Model	EGAS100CLP
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	15.39 Ω at 25°C
Run Winding Resistance	12.41 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	10.3 A
Locked Rotor Amperage (LRA) 60Hz	9.7 A
Rated Load Amperage (LMBP) at 50 Hz	2 A
Rated Load Amperage (LMBP) at 60 Hz	1.8 A
Rated Load Amperage (HBP) at 50 Hz	2.3 A
Rated Load Amperage (HBP) at 60 Hz	2.1 A

MECHANICAL DATA

Displacement	13.54 cm ³
Oil Charge	280 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	10.3 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Overload Protection	4TM319LFBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	SMALL V2
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Connector	Internal Diameter	Shape	Material
Suction	8.2 mm	SLANTED	COPPER
Discharge	4.94 mm	SLANTED	COPPER
Process	6.5 mm	STRAIGHT	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	LBP
Tested Standard	ASHRAE
Tested Cooling	Static
Tested Voltage	220 V
Tested Frequency	60 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	298	1.54	194	1.36	3.2
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-35	167	1.33	125	1.21	1.79
-30	218	1.53	142	1.23	2.34
-25	282	1.76	160	1.27	3.03
-20	362	2.02	179	1.32	3.89
-15	457	2.31	198	1.38	4.93
-10	570	2.65	215	1.45	6.16
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.					

PERFORMANCE CURVE

Condensing Temperature 45°C

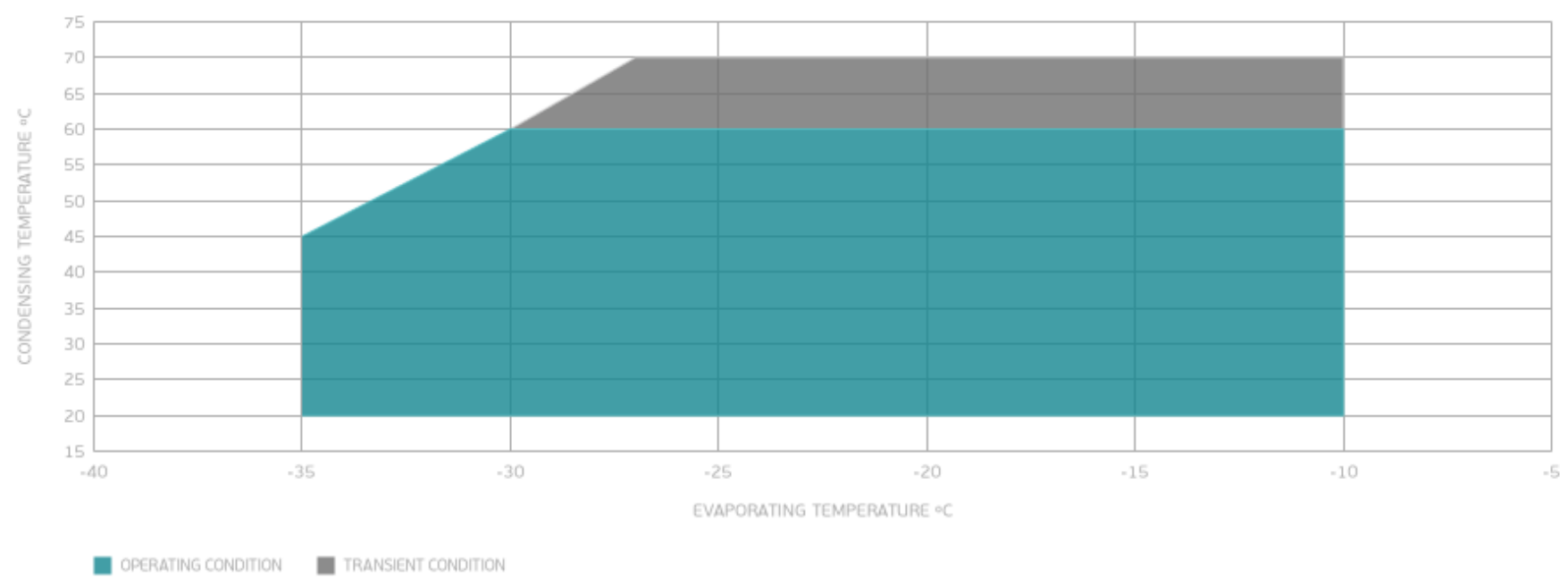
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	165	1.23	134	1.22	1.77
-30	216	1.41	154	1.25	2.32
-25	280	1.60	175	1.30	3.01
-20	359	1.80	199	1.36	3.86
-15	452	2.03	223	1.44	4.87
-10	561	2.27	247	1.52	6.06
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-30	208	1.30	160	1.27	2.24
-25	273	1.47	185	1.33	2.93
-20	350	1.64	213	1.41	3.77
-15	441	1.82	242	1.50	4.76
-10	548	2.01	272	1.61	5.92
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.					

ENVELOPE



EXTERNAL DIMENSIONS

