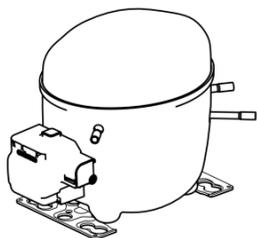


EGAS100HLR



ENGINEERING CODE
513701163

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
LBP

MOTOR TYPE
RSIR/CSIR

STANDARD
CECOMAF

COOLING CAPACITY
183 W

EFFICIENCY
1.17 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	280 ml
Oil Type	ESTER
Oil Viscosity	ISO10
Weight	11 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

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
Tested Standard	CECOMAF
Tested Cooling	Static
Tested Voltage	220 V
Refrigerant Temperature	Dew

Performance on Compressor Speed: 3000 RPM

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
55	-25	183	1.17	157	-	4.37

Test Condition: Subcooling 0 K, Return Gas 32 °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	115	1.05	110	-	2.48
-30	162	1.24	130	-	3.50
-25	218	1.45	151	-	4.71
-20	284	1.66	171	-	6.15
-15	361	1.87	193	-	7.86
-10	451	2.08	217	-	9.85

Test Condition: Subcooling 0 K, Return Gas 32 °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	131	1.00	131	-	3.13
-25	183	1.17	157	-	4.37
-20	243	1.33	183	-	5.82
-15	313	1.49	210	-	7.52
-10	394	1.65	239	-	9.50

Test Condition: Subcooling 0 K, Return Gas 32 °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	145	0.94	154	-	3.88
-20	200	1.07	186	-	5.36
-15	262	1.19	220	-	7.07
-10	335	1.31	256	-	9.06

Test Condition: Subcooling 0 K, Return Gas 32 °C. Data are an indication of performance based simulation.

Performance on Compressor Speed: 3600 RPM

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
55	-25	225	1.22	184	-	5.36

Test Condition: Subcooling 0 K, Return Gas 32 °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	142	1.10	129	-	3.05
-30	199	1.30	153	-	4.30
-25	268	1.52	176	-	5.79
-20	349	1.74	201	-	7.56
-15	444	1.96	227	-	9.65
-10	554	2.18	254	-	12.10

Test Condition: Subcooling 0 K, Return Gas 32 °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	161	1.05	154	-	3.84
-25	225	1.22	184	-	5.36
-20	299	1.39	215	-	7.15
-15	385	1.56	247	-	9.23
-10	484	1.73	280	-	11.67

Test Condition: Subcooling 0 K, Return Gas 32 °C. Data are an indication of performance based simulation.

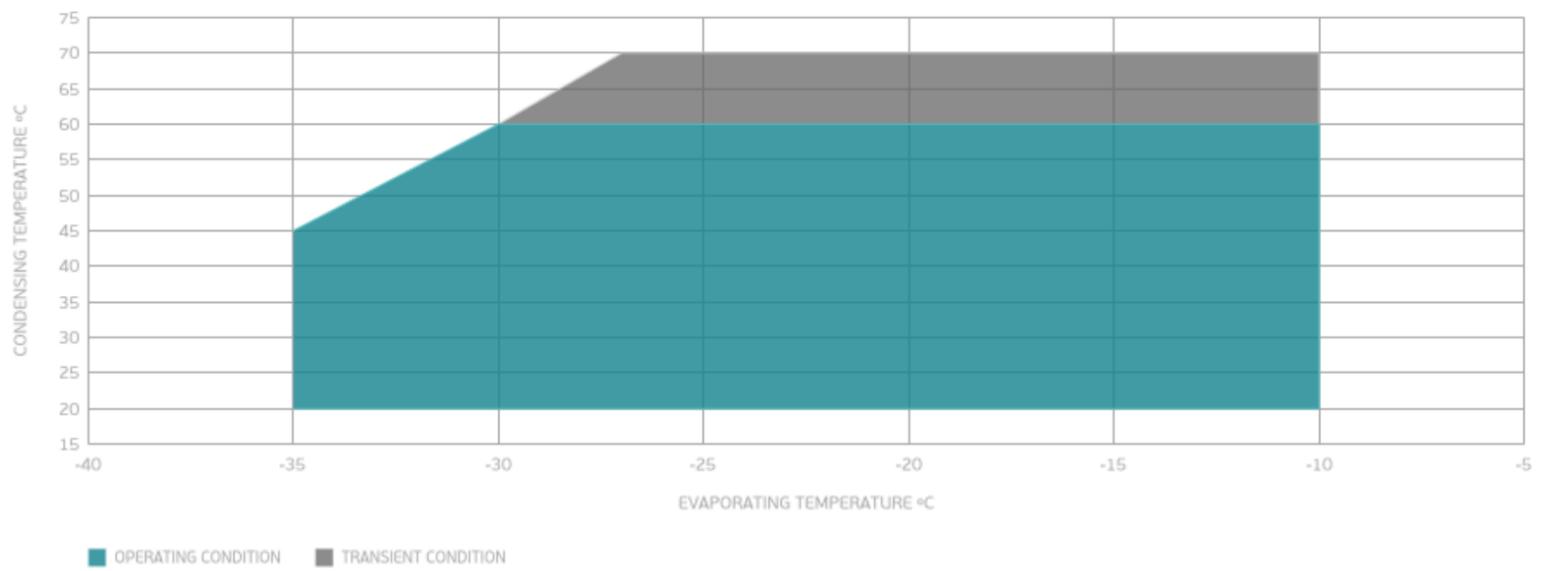
PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	178	0.99	180	-	4.76
-20	245	1.12	219	-	6.58
-15	322	1.25	258	-	8.69
-10	411	1.37	300	-	11.13

Test Condition: Subcooling 0 K, Return Gas 32 °C. Data are an indication of performance based simulation.

ENVELOPE



External

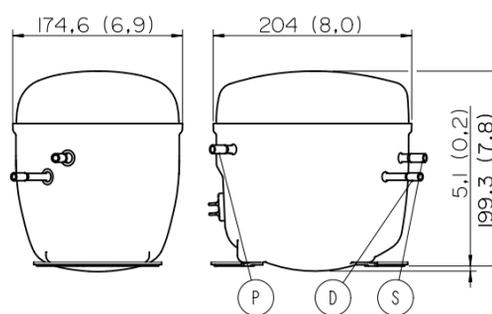
EXTERNAL CHARACTERISTICS

Base Plate	SMALL V2
Tray Holder	NO

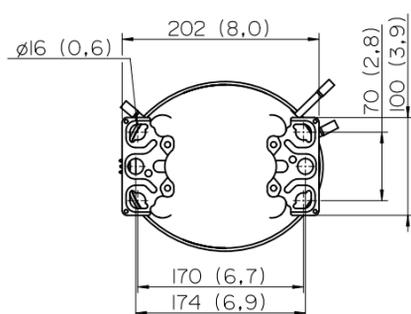
Connector	Internal Diameter	Shape	Material
Suction	8.2 mm	SLANTED	COPPER PLATED STEEL
Discharge	6.5 mm	SLANTED	COPPER PLATED STEEL
Process	6.5 mm	SLANTED	COPPER PLATED STEEL

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

