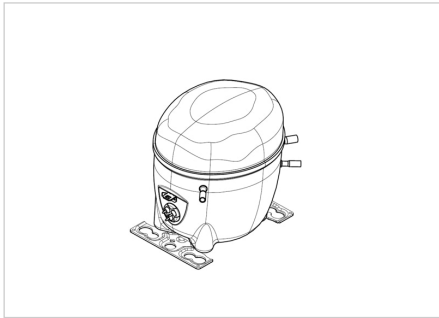


MODEL

**EGAS100HLR**

embraco

**APPROVALS****ENGINEERING CODE**

513701174

**APPROVED REFRIGERANT**

R-134a

**POWER SUPPLY**

220-240 V 50 Hz

**STANDARD CONDITIONS**

ASHRAE

**APPLICATION**

LBP

**COOLING CAPACITY**

250 W

**EFFICIENCY**

1.52 W/W

**MOTOR TYPE**

RSIR

**STARTING TORQUE**

LST

## DATA

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.95 cm <sup>3</sup>
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz / 220-240 V 60 Hz
Evaporating Temperature Range	-35 °C to -10 °C

**Electrical Data**

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	34 Ω at 25° C
Run Winding Resistance	8.8 Ω at 25° C
Rated Load Amperage (RLA) at 50 Hz	2.32 A

## Mechanical Data

Oil Charge	230 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	10.94 Kg

## Electrical Components

	Description
Motor Protection	4TM757KFBYY-53
Starting Device	Relay   213516442

## External Characteristics

Tray Holder	No	
Connector	Internal Diameter	Shape
Suction	8.2 mm	Slanted/Copper
Discharge	6.5 mm	Slanted/Copper
Process	6.5 mm	Slanted/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	250 W	164 W	1.32 A	4.87 kg/h	1.52 W/W

Test Condition: ASHRAE, Static/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to ASHRAE guideline polynomial curve.

## Performance Curve Data

### Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	147	103	0.89	2.88	1.42
-30	196	121	1.03	3.82	1.63
-25	255	139	1.17	4.96	1.84
-20	328	158	1.31	6.38	2.08
-15	416	178	1.47	8.12	2.33
-10	524	201	1.65	10.26	2.61

Test Condition: ASHRAE, Static/NotControlled/220, LBP. Data in accordance to ASHRAE guideline polynomial curve.

### Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	130	110	0.9	2.55	1.17
-30	182	130	1.06	3.55	1.4
-25	243	151	1.23	4.72	1.61
-20	315	172	1.39	6.13	1.83
-15	401	194	1.57	7.83	2.06
-10	505	218	1.78	9.88	2.31

Test Condition: ASHRAE, Static/NotControlled/220, LBP. Data in accordance to ASHRAE guideline polynomial curve.

### Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	106	106	0.83	2.11	1
-30	162	131	1.04	3.19	1.24
-25	225	156	1.25	4.40	1.45
-20	298	182	1.46	5.80	1.64
-15	383	209	1.68	7.47	1.83
-10	483	237	1.92	9.45	2.04

Test Condition: ASHRAE, Static/NotControlled/220, LBP. Data in accordance to ASHRAE guideline polynomial curve.