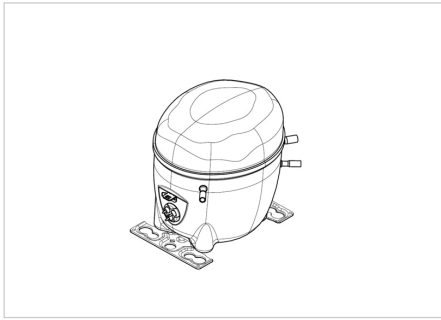


MODEL

EGAS90HLR

embraco


 **ENGINEERING CODE**

513701396

 **APPROVED REFRIGERANT**

R-134a

 **POWER SUPPLY**

220-240 V 50 Hz

 **STANDARD CONDITIONS**

ASHRAE

 **APPLICATION**

LBP

 **COOLING CAPACITY**

218 W

 **EFFICIENCY**

1.39 W/W

 **MOTOR TYPE**

RSIR

 **STARTING TORQUE**

LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.15 cm ³
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	35.4 Ω at 25° C
Run Winding Resistance	14.8 Ω at 25° C
Locked Rotor Amperage (LRA)	12.3 A
Rated Load Amperage (RLA) at 50 Hz	1.2 A
Rated Load Amperage (RLA) at 60 Hz	1 A

Mechanical Data

Oil Charge	230 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	10.5 Kg

Electrical Components

	Description
Motor Protection	4TM739KFBYY-53
Starting Device	Relay 213516493

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	219 W	157 W	1.19 A	4.26 kg/h	1.39 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	129	105	1.07	2.49	1.23
-30	171	118	1.1	3.31	1.44
-25	222	132	1.13	4.31	1.68
-20	286	146	1.16	5.55	1.96
-15	365	159	1.2	7.11	2.29
-10	462	172	1.23	9.03	2.68

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	117	110	1.09	2.26	1.06
-30	161	126	1.12	3.11	1.27
-25	212	142	1.16	4.12	1.49
-20	274	159	1.2	5.34	1.73
-15	350	176	1.25	6.84	1.99
-10	443	193	1.3	8.67	2.3

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	97	115	1.1	1.89	0.85
-30	144	132	1.14	2.81	1.09
-25	198	151	1.18	3.85	1.31
-20	260	171	1.23	5.07	1.52
-15	334	191	1.29	6.54	1.75
-10	423	213	1.36	8.31	1.99

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