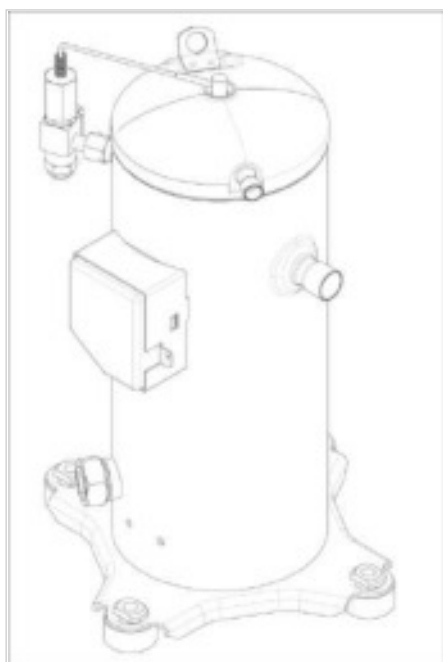


MODEL

SE2008GS-O

embraco



APPROVALS



ENGINEERING CODE

303B01201AC



APPROVED REFRIGERANT

R-404A



POWER SUPPLY

380 V 50 Hz



STANDARD CONDITIONS

EN12900



APPLICATION

LBP



COOLING CAPACITY

1609 W



EFFICIENCY

1.09 W/W



MOTOR TYPE

SCRL

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	7.3 m³/h (42 cm³/rev)
Compressor Cooling	Static
Horse Power	2 1/2 hp
Power Supply	380-420 V 50 Hz / 460 V 60 Hz

Electrical Data

Motor type	SCRL
Pole	2
Voltage working range at 50 Hz	342-462 V
Voltage working range at 60 Hz	414-506 V
Maximum Motor Temperature	130 °C
Run Winding Resistance	6.7 Ω at 25° C
Motor insulation class	B
Rated speed	approximately 2900
High Side	3.2 MPa
Low Side	2 MPa
Maximum discharge temperature	125
Pressure release valve opening range	2.76-3.10 MPa

Mechanical Data

Maximum Recommended Refrigerant Charge	3.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	30.6 Kg
Free Internal Volume Low	4.1 L
Free Internal Volume High	1 L

Electrical Components

Description	
Motor Protection	Internal Protector

External Characteristics

Base Plate Holes		191x191	
Base Plate Dimensions		239x239	
Height		424 mm	
Diameter		168 mm	
Hanger Tab		1	
Oil Side Glass		1	
Connector	Internal Diameter	Material	Shape
Suction	1 1/4"-12 UNF 2A	Copper plated steel tube	Rotolock
Discharge	3/4"-16 UNF 2A	Copper plated steel tube	Rotolock

PERFORMANCE

Rated Points

Cooling Capacity	Power Input	COP	Rated Load Amps RLA	Locked Rotor Amps LRA	Maximum Operating Current MOC	Sound Power Level
1609 W	1480 W	1.09 W/W	2.7 A	22 A	4.4 A	71 dBA

Test Condition: EN12900: Te -35°C; Tc 40°C; Rg 20°C. No subcooling; Ta 35°C. Data in accordance to EN12900 guideline polynomial curve.

Performance Curve Data - Frequency: 50Hz

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1377	1287	1.07
-35	1726	1361	1.27
-30	2153	1440	1.5
-25	2663	1523	1.75
-20	3260	1609	2.03
-15	3949	1699	2.32
-10	4735	1792	2.64
-5	5621	1887	2.98
0	6614	1984	3.33

Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1187	1543	0.77
-35	1488	1622	0.92
-30	1856	1707	1.09
-25	2294	1797	1.28
-20	2808	1891	1.48
-15	3402	1989	1.71
-10	4080	2090	1.95
-5	4848	2195	2.21
0	5709	2303	2.48

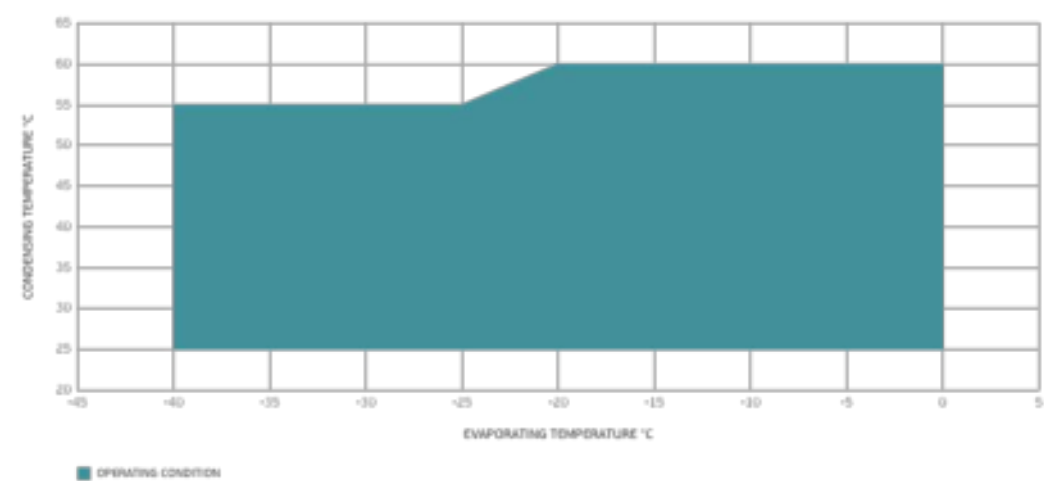
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1021	1942	0.53
-35	1259	2022	0.62
-30	1553	2107	0.74
-25	1905	2199	0.87
-20	2321	2295	1.01
-15	2804	2396	1.17
-10	3361	2500	1.34
-5	3995	2609	1.53
0	4711	2721	1.73

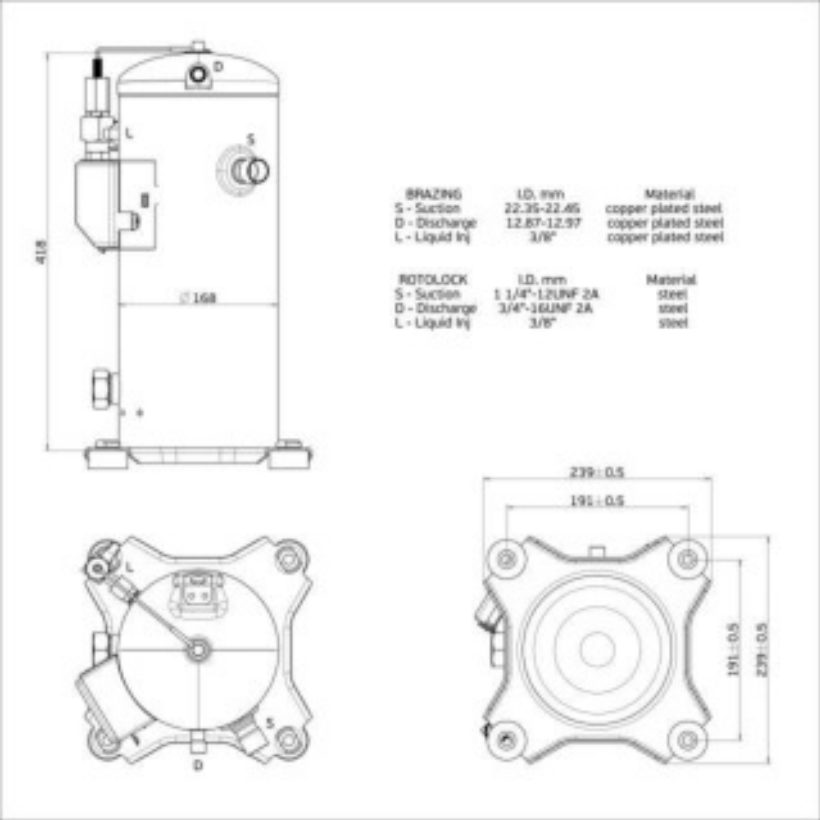
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



The envelope presented is related to R404A/R452A/R449A. For others, please contact our technical support.

External Dimensions



Wiring Diagram

