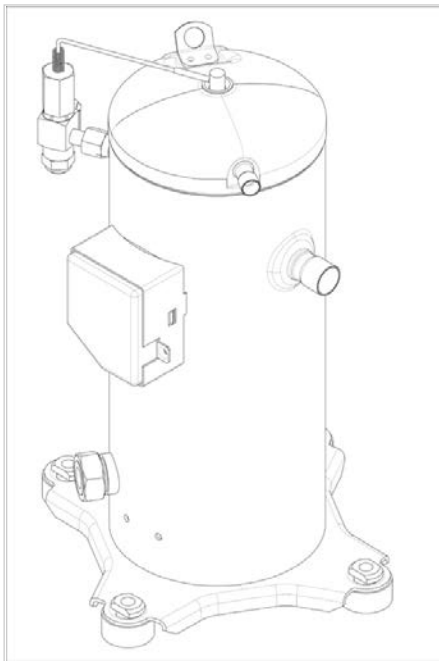


MODEL

**SE2014GS-O**

embraco



CE

**ENGINEERING CODE**  
303DO1201AC

**APPROVED REFRIGERANT**  
R-452A

**POWER SUPPLY**  
380 V 50 Hz

**STANDARD CONDITIONS**  
EN12900

**APPLICATION**  
LBP

**COOLING CAPACITY**  
2815 W

**EFFICIENCY**  
1.22 W/W

**MOTOR TYPE**  
SCRL

DATA

## General Data

<b>Type</b>	Hermetic Scroll Compressor
<b>Technology Type</b>	On-Off
<b>Displacement (Swept Volume)</b>	11.8 m <sup>3</sup> /h (67.8 cm <sup>3</sup> /rev)
<b>Compressor Cooling</b>	Static
<b>Horse Power</b>	4 hp
<b>Power Supply</b>	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	2.45 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	4.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	32.7 Kg
Free Internal Volume Low	3.6 L
Free Internal Volume High	1 L

## 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
2815 W	2302 W	1.22 W/W	5.7 A	60 A	8.8 A	73 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	2434	585	4.16
-35	2998	618	4.85
-30	3687	654	5.64
-25	4523	691	6.55
-20	5528	729	7.58
-15	6725	768	8.75
-10	8135	807	10.08
-5	9781	845	11.58
0	11685	881	13.26

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	2122	704	3.01
-35	2626	740	3.55
-30	3238	779	4.16
-25	3982	821	4.85
-20	4879	865	5.64
-15	5951	910	6.54
-10	7221	956	7.55
-5	8711	1002	8.69
0	10442	1048	9.97

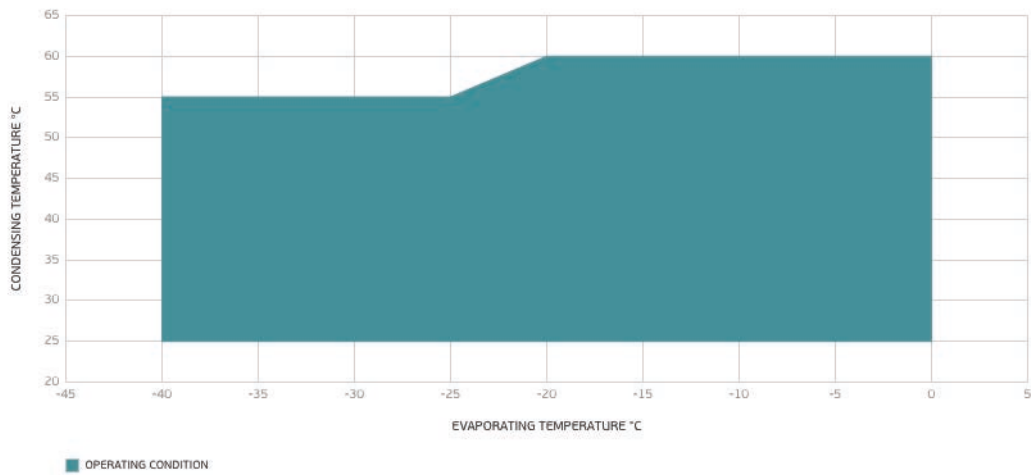
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

## Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1858	875	2.12
-35	2258	911	2.48
-30	2750	951	2.89
-25	3357	995	3.37
-20	4102	1041	3.94
-15	5005	1090	4.59
-10	6091	1141	5.34
-5	7380	1192	6.19
0	8894	1244	7.15

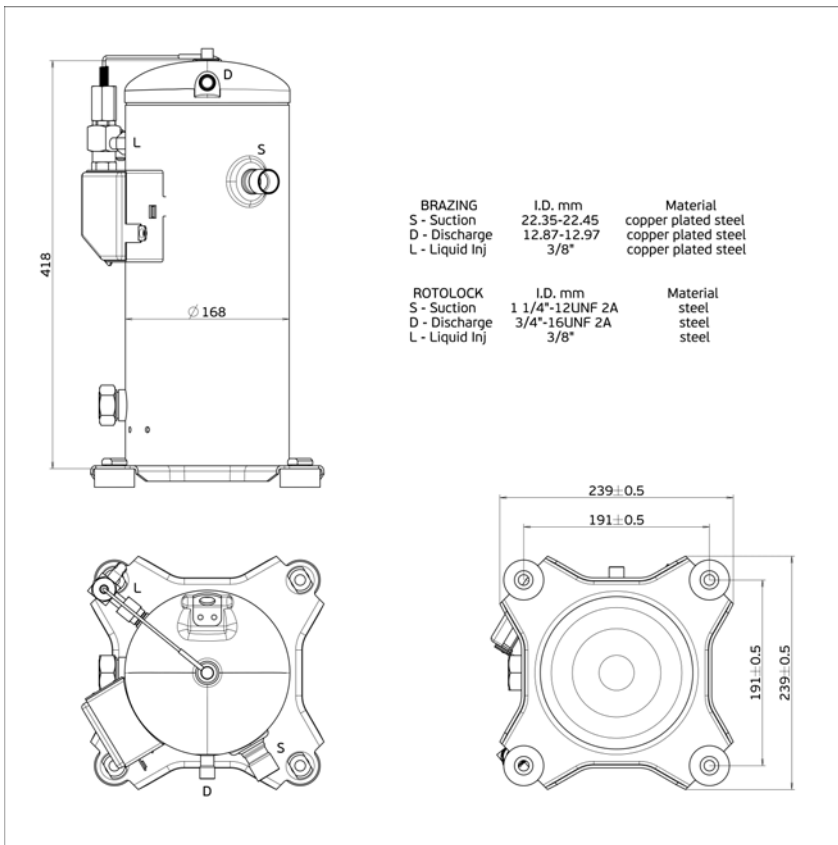
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

## Operating Envelope



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

## External Dimensions



## Wiring Diagram

