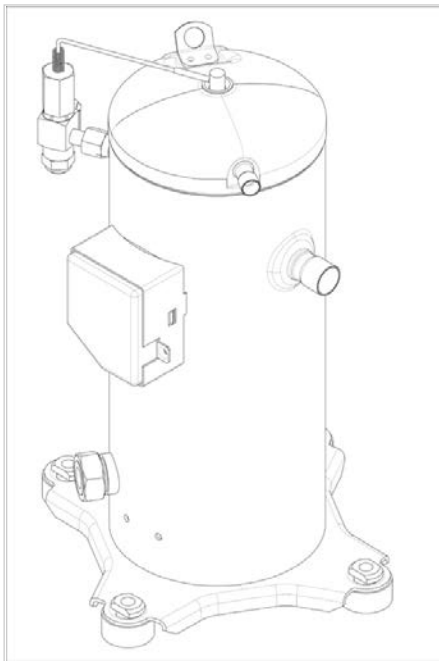


MODEL

SE2010GS-O

embraco



CE

ENGINEERING CODE
303CO1201AC

APPROVED REFRIGERANT
R-452A

POWER SUPPLY
380 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
1861 W

EFFICIENCY
1.12 W/W

MOTOR TYPE
SCRL

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	8.1 m ³ /h (46.6 cm ³ /rev)
Compressor Cooling	Static
Horse Power	3 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	3.3 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	3.8 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
1861 W	1668 W	1.12 W/W	4.1 A	45 A	5.8 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	1609	424	3.79
-35	1981	448	4.42
-30	2437	474	5.15
-25	2990	501	5.97
-20	3654	528	6.92
-15	4445	557	7.99
-10	5378	585	9.2
-5	6466	612	10.56
0	7724	638	12.1

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	1403	510	2.75
-35	1736	536	3.24
-30	2141	564	3.79
-25	2632	595	4.43
-20	3225	627	5.15
-15	3934	659	5.96
-10	4773	693	6.89
-5	5758	726	7.93
0	6902	759	9.09

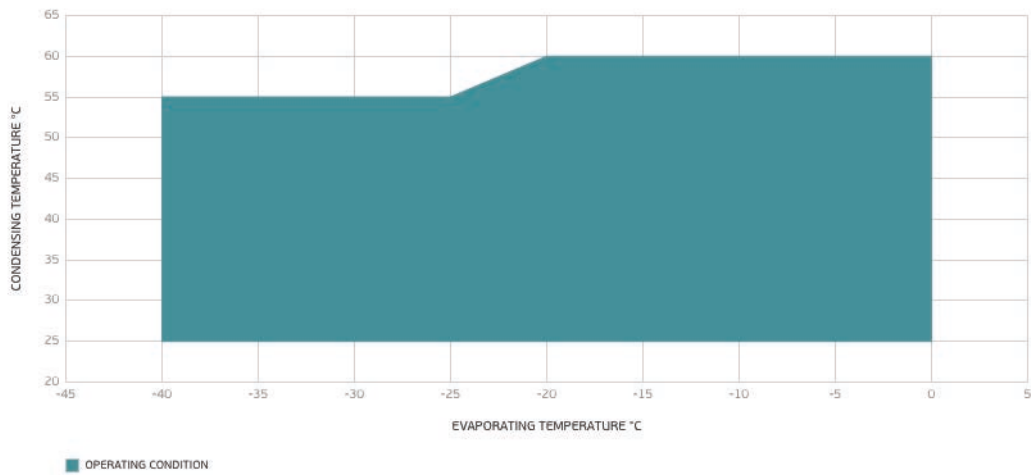
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1228	634	1.94
-35	1492	660	2.26
-30	1818	689	2.64
-25	2219	721	3.08
-20	2711	755	3.59
-15	3309	790	4.19
-10	4026	826	4.87
-5	4878	864	5.65
0	5879	901	6.52

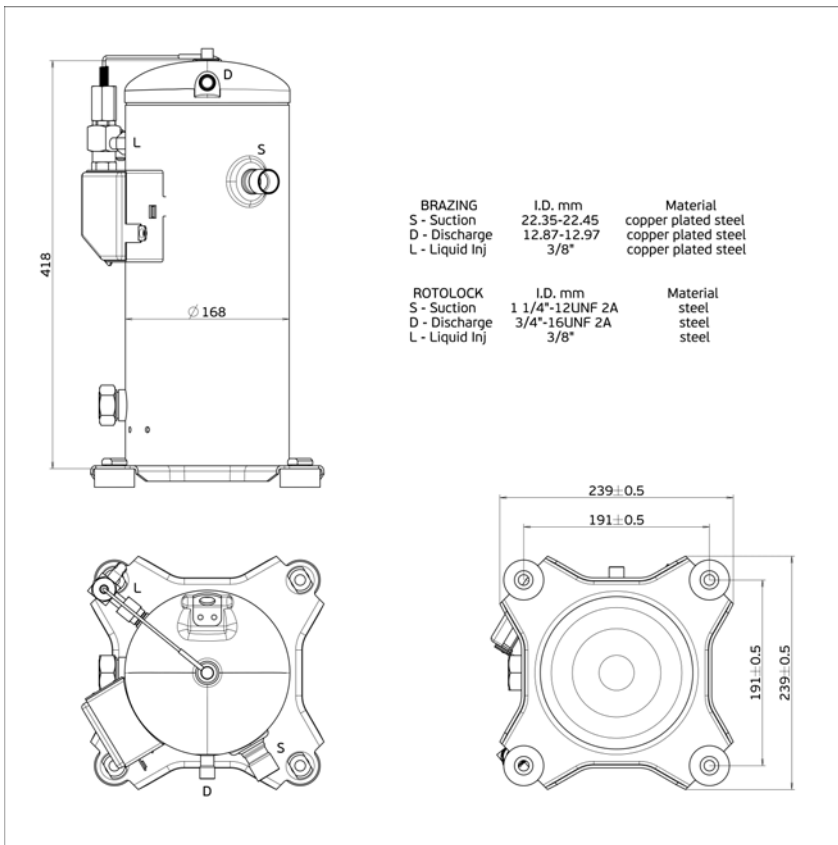
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



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

External Dimensions



Wiring Diagram

