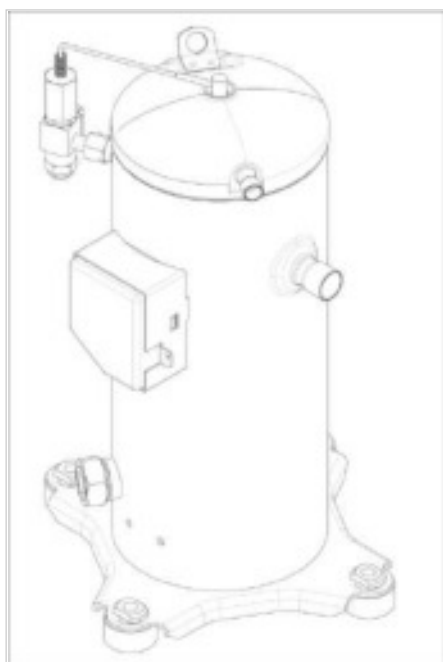


MODEL

SE2014GS-O

embraco



APPROVALS



ENGINEERING CODE

303DO1201AC



APPROVED REFRIGERANT

R-404A



POWER SUPPLY

380 V 50 Hz



STANDARD CONDITIONS

EN12900



APPLICATION

LBP



COOLING CAPACITY

2859 W



EFFICIENCY

1.2 W/W



MOTOR TYPE

SCRL

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	11.8 m ³ /h (67.8 cm ³ /rev)
Compressor Cooling	Static
Horse Power	4 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	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

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
2859 W	2376 W	1.2 W/W	5.2 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	2447	2066	1.18
-35	3067	2185	1.4
-30	3826	2311	1.66
-25	4732	2444	1.94
-20	5793	2583	2.24
-15	7018	2727	2.57
-10	8414	2876	2.93
-5	9990	3029	3.3
0	11753	3185	3.69

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	2110	2477	0.85
-35	2645	2605	1.02
-30	3298	2741	1.2
-25	4077	2885	1.41
-20	4990	3036	1.64
-15	6045	3193	1.89
-10	7251	3356	2.16
-5	8615	3524	2.44
0	10146	3697	2.74

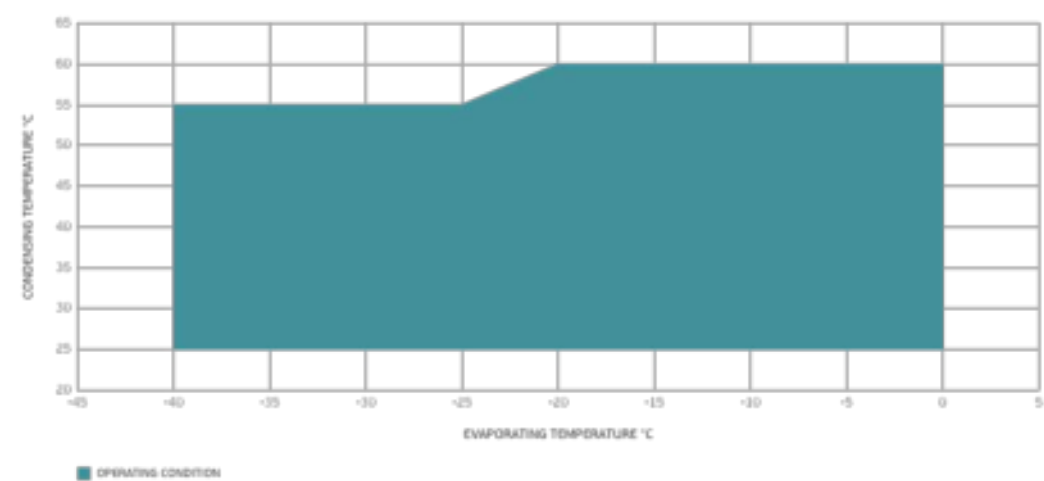
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1814	3118	0.58
-35	2238	3246	0.69
-30	2759	3384	0.82
-25	3385	3530	0.96
-20	4124	3684	1.12
-15	4984	3846	1.3
-10	5973	4014	1.49
-5	7099	4189	1.69
0	8372	4369	1.92

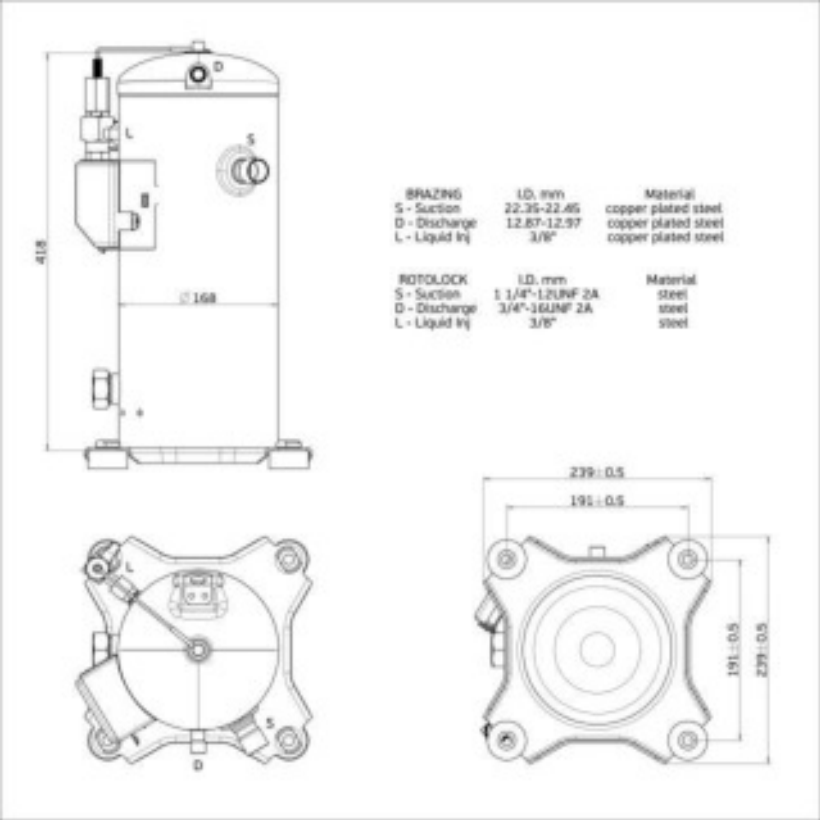
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



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

External Dimensions



Wiring Diagram

