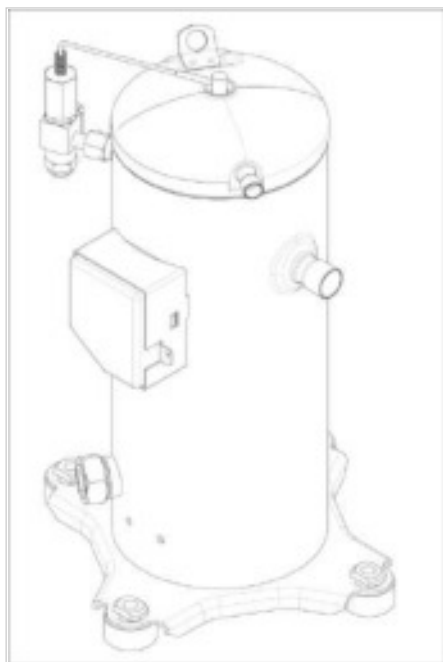


MODEL

SE2008GK-C

embraco



APPROVALS




 **ENGINEERING CODE**
303BC1204AC

 **APPROVED REFRIGERANT**
R-404A

 **POWER SUPPLY**
220 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
1609 W

 **EFFICIENCY**
1.07 W/W

 **MOTOR TYPE**
SCRL

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	7.3 m ³ /h (42 cm ³ /rev)
Compressor Cooling	Static
Horse Power	2 1/2 hp
Power Supply	220 V 50 Hz

Electrical Data

Motor type	SCRL
Pole	2
Voltage working range at 50 Hz	198-242 V
Maximum Motor Temperature	130 °C
Start Winding Resistance	1.4 Ω at 25° C
Run Winding Resistance	0.7 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

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	34 Kg
Free Internal Volume Low	3.6 L
Free Internal Volume High	1 L

Electrical Components

	Description
Starting Device	Potential Relay HLR3800-3E3D
Motor Protection	Internal Protector
Start Capacitor	160 uF (330V)
Run Capacitor	60 uF (450V)
CSR Box	yes

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	1510 W	1.07 W/W	7.2 A	76 A	14.2 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	1313	1.05
-35	1726	1389	1.24
-30	2153	1469	1.47
-25	2663	1554	1.71
-20	3260	1642	1.99
-15	3949	1734	2.28
-10	4735	1828	2.59
-5	5621	1925	2.92
0	6614	2024	3.27

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	1574	0.75
-35	1488	1656	0.9
-30	1856	1742	1.07
-25	2294	1833	1.25
-20	2808	1930	1.46
-15	3402	2030	1.68
-10	4080	2133	1.91
-5	4848	2240	2.16
0	5709	2350	2.43

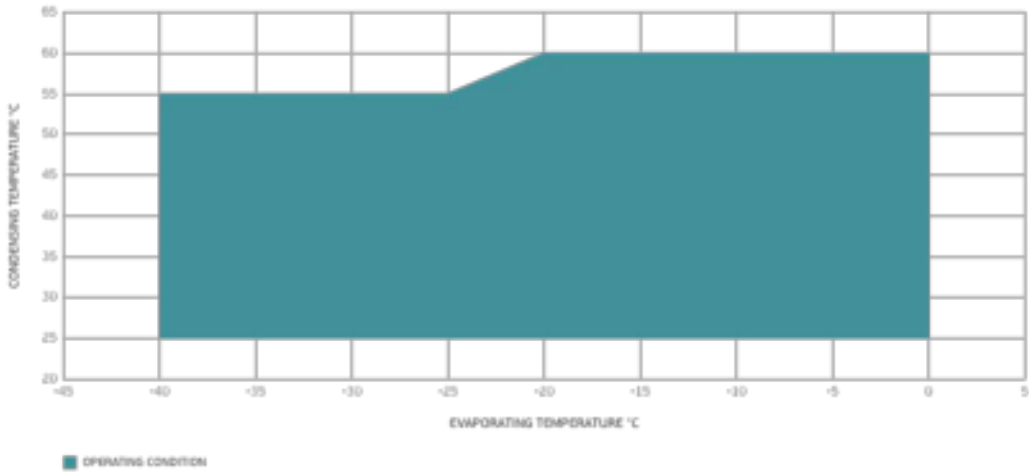
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1021	1982	0.52
-35	1259	2063	0.61
-30	1553	2151	0.72
-25	1905	2243	0.85
-20	2321	2342	0.99
-15	2804	2445	1.15
-10	3361	2551	1.32
-5	3995	2663	1.5
0	4711	2777	1.7

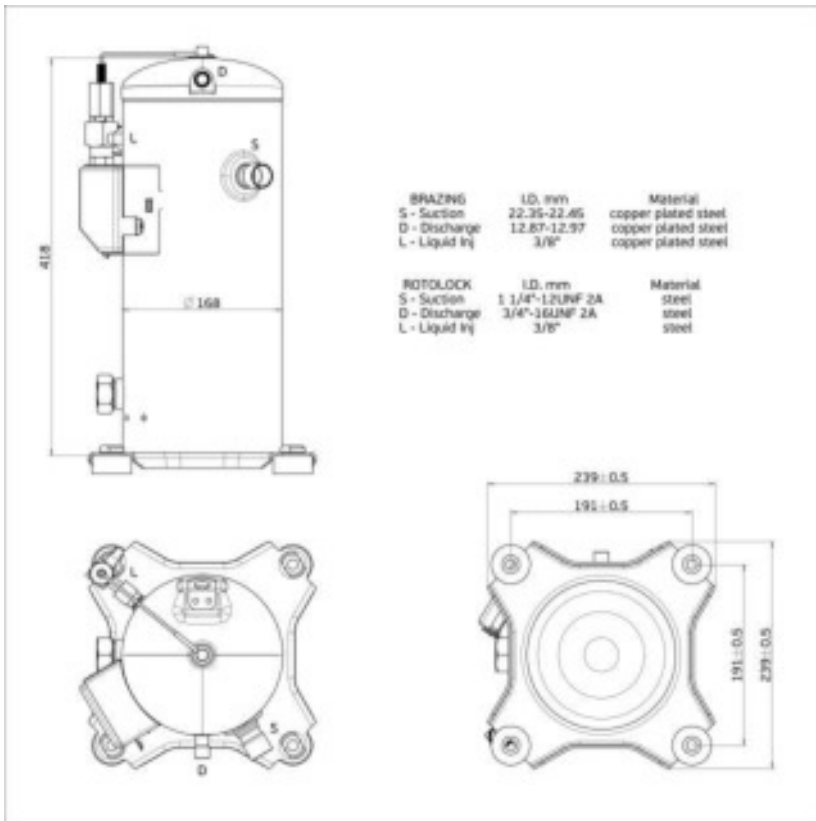
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



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

External Dimensions



Wiring Diagram

