

SMO5CR-2

Cleanroom Oven



SHEL LAB’s cleanroom oven incorporates many special features needed for high temperature cleanroom work:

- 300 series stainless steel exterior
- Fully welded stainless steel interior
- Stainless steel shelving
- Brushless circulation blower motor
- High-temperature Class E11 Efficiency Particle Filter filter
- Digital LED displays
- Programmable temperature controller capable of up to 40 ramp and soak steps (10 steps per profile, and up to 4 profiles that can be run independently or consecutively).

The SMO5CR-2’s adjustable air intake and exhaust ducts are easily removed for cleaning. Chamber air is continually passed through the particle filter in the SMO5CR-2’s horizontal airflow regimen; this contrasts with other oven designs that merely filter the incoming air once. A nitrogen inlet purge port is standard to reduce external air ingress and risk of contamination.

SHEL LAB SMO5CR-2 cleanroom ovens are made with high-temperature, wrap-around insulation, and a high-temperature silicone door gasket. *Please note that the filter may be weakened if the oven is operated above 200°C, but is effective and serviceable up to 270°C.*

Model Name	SMO5CR-2
Capacity	3.9 cu.ft. (111 liters)
Interior Dimensions (W x D x H)	17.0” x 20.0” x 20.0” 431 x 508 x 508 mm
Exterior Dimensions (W x D x H)	35.0” x 30.0” x 37.6” 889 x 747 x 955 mm
Shelves	2 standard, 4 max
Warranty	2 Year Limited Warranty

Temperature Specifications

Temperature Range	20°C above ambient to 270°C
Heat-Up Time — Minutes to 150°C	25
Recovery after Door Opening (30 sec.) - Minutes to 150°C	6
Recovery after Door Opening (60 sec.) - Minutes to 150°C	6.5

Temperature Uniformity

At 80°C	1.0
At 150°C	2.5
At 270°C	5.0

Applications

Healthcare Industry

- Annealing the plastics on syringes and catheters
- Adhesive curing and coating curing on pacemaker
- Curing the coating on stents
- Polymerizing contact lenses
- Curing the coating on eye glass lenses

Manufacturing

- Curing, drying, heating wafers, and electronic components
- Epoxy and adhesive curing
- Die bond curing
- Baking of coatings



Accessories

5121189	Oven Shelf Slide (2 required per shelf)
5121195	Oven Shelf (2 slides required to install)
9000584	Caster Platform
9490586	USB - RS485 Converter Cable
9990503	Class E11 Efficiency Particle Filter
SMO5CR-2EXT1	1-Year Extended Warranty
SMO5CR-2EXT2	2-Year Extended Warranty
SMO5CR-2EXT3	3-Year Extended Warranty

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