SVAC Series
SHEL LAB Vacuum Ovens
Ideal for Industrial, Analytical, and General Laboratory Applications

SHEL LAB vacuum ovens are recommended for critical scientific and analytical use in laboratory and pilot plant product research. Typical applications include outgassing, curing, drying, baking, pre-heating, conditioning, and life cycle testing. Choose from three cabinet sizes, each with a glass viewing window, inert gas connection, and a variety of gasket material options.

SVAC Ovens Features and Benefits

The SVAC Series ovens are engineered for safe, accurate, and precise performance in demanding laboratory environments.

1. Recipe Control - Write 4 recipes with up to a total of 40 steps.
2. Temperature range approximately 10°C above ambient to 220°C for multiple applications.
3. Integrated Over Temperature Limit with digital setpoint (OTL) to provide additional temp limit control.
4. Stainless steel interior construction for long life operation, easy cleaning.
5. Watlow EZ-Zone controller with Ramp and Soak Temperature control.
6. Inert gas inlet connection and valve.
7. Aluminum shelves are provided to maximize space usage and optimize conductivity.
8. Heating elements on 4 sides to increase temperature uniformity.
9. Digital Vacuum Gauge
10. Access Port (KF-25 Fitting)
11. Internationally certified CAN/CSA, UL, EN, IEC 61010, and compliant with CE.
12. 2 year limited warranty

Made in USA
Temperature and Vacuum Performance

SHEL LAB vacuum ovens are available in 110-120V, 50/60Hz or 220-240V, 50/60Hz configurations and achieve temperatures up to 220°C.

**Heat-Up** - Rapid heat-up times to 220°C get your product to temperature faster than ever.

**Applications:**
- Drying
- Outgassing
- Aging Tests
- Chemical Resistance Studies
- Vacuum Storage
- Moisture Removal
- Parts Cleaning
- Curing
- Bubble Removal
- Inert Atmosphere Processing

Now Offering Extended Warranties!

US Domestic Only
Control, Timer Program, and Monitoring

The Watlow EZ-Zone PID (proportional, integral, derivative) controller commands proportional power to the heating elements to provide the most accurate and responsive control. The control parameters are matched to the oven size to assure faster response to setpoint with minimal overshoot. The Watlow EZ-Zone supports custom recipe creation. Each recipe can support full ramp and soak control for custom applications. A total of 4 recipes with up to 40 steps can be used to configure the oven to your process.

Integrated Watlow Control Panel

All controls are centrally located on the main panel including power, Watlow EZ-Zone controller with integrated over-temperature limit and recipe control. The gauge panel allows easy access from the front of the unit to the manual vacuum and vent valves.
### SVAC Dimensions

<table>
<thead>
<tr>
<th>Model Name</th>
<th>SVAC1</th>
<th>SVAC2</th>
<th>SVAC4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior Volume</td>
<td>0.56 cu.ft. (15.9 liters)</td>
<td>1.67 cu.ft. (47.2 liters)</td>
<td>4.5 cu.ft. (127.4 liters)</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>102 lb (47 kg)</td>
<td>182 lb (83 kg)</td>
<td>317 lb (144 kg)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>156 lb (71 kg)</td>
<td>253 lb (115 kg)</td>
<td>462 lb (210 kg)</td>
</tr>
<tr>
<td>Interior Dimensions W x D x H</td>
<td>9” x 12” x 9” (228 x 304 x 228 mm)</td>
<td>12” x 20” x 12” (304 x 508 x 304 mm)</td>
<td>18” x 24” x 18” (457 x 610 x 457 mm)</td>
</tr>
<tr>
<td>Exterior Dimensions W x D x H</td>
<td>17.5” x 23” x 23.7” (444 x 584 x 602 mm)</td>
<td>20.8” x 31.3” x 26.8” (528 x 795 x 681 mm)</td>
<td>27.0” x 35.2” x 32.8” (686 x 895 x 833 mm)</td>
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</table>
DIN 12880 Compliance

SHEL LAB SVAC Series ovens are designed to meet or exceed the performance criteria established through DIN 12880:2007:05 and ASTM E145-94 (Reapproved 2006.) These criteria set common standards for laboratory oven performance in heat-up, temperature uniformity and door-open recovery time. Confirmation of temporal and spatial performance is achieved by testing with multi-point temperature probes strategically positioned throughout the oven chamber interior, including center point positions where stability, equilibrium and setpoint control are required.

Note: DIN 12880 is an international standard for measuring the performance of electrical laboratory ovens and incubators based on Deutsches Institut Fur Normung E.V. (German National Standard), 05/01/2007.
Site Preparation and Installation Guides

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<thead>
<tr>
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<th>SVAC1</th>
<th>SVAC2</th>
<th>SVAC4</th>
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<tbody>
<tr>
<td>Wall Clearance, Sides</td>
<td>6* (152 mm)</td>
<td>6* (152 mm)</td>
<td>6* (152 mm)</td>
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<tr>
<td>Wall Clearance, Roof</td>
<td>12* (305 mm)</td>
<td>12* (305 mm)</td>
<td>12* (305 mm)</td>
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<tr>
<td>Door Swing</td>
<td>17.6* (447 mm)</td>
<td>20.8* (528 mm)</td>
<td>27* (686 mm)</td>
</tr>
<tr>
<td>Access Port, Back Wall</td>
<td>1.5* (38 mm)</td>
<td>1.5* (38 mm)</td>
<td>1.5* (38 mm)</td>
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SVAC Vacuum Ovens Options and Accessories

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<th>SVAC1</th>
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<tr>
<td>Extra Shelf, Max. Weight 35 lb (15.8 kg)</td>
<td>N/A</td>
<td>N/A</td>
<td>5680563</td>
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<tr>
<td>Extended Warranty - 1 Year Extension</td>
<td>SVAC1EXT1</td>
<td>SVAC2EXT1</td>
<td>SVAC4EXT1</td>
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<tr>
<td>Extended Warranty - 2 Year Extension</td>
<td>SVAC1EXT2</td>
<td>SVAC2EXT2</td>
<td>SVAC4EXT2</td>
</tr>
<tr>
<td>Extended Warranty - 3 Year Extension</td>
<td>SVAC1EXT3</td>
<td>SVAC2EXT3</td>
<td>SVAC4EXT3</td>
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Options must be specified when ordering. Contact SHEL LAB for additional information.