

Vacuum Ovens

Durable for Industry, Precise for Research



The Ideal Vacuum Oven for Research and Industry

Constant thinking

SL
SHEL LAB

A Product of
SHELDON MFG. INC.

Vacuum Ovens

Digital 1400 Series Model: 1425



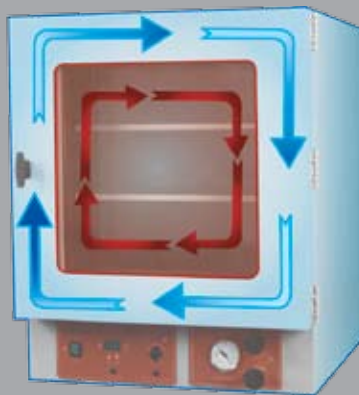
Vacuum Oven 1425

SHEL LAB Vacuum Ovens Durable & Innovative

Durable Construction - All SHEL LAB vacuum ovens are built with a 304 stainless steel chamber for exceptional durability. We use true brass vacuum valves with Teflon seats to prevent leaks.

Innovative Design - The doors have positive latch handles with spring-loaded glass to facilitate proper vacuum seal without hinge binds that decrease gasket life. A selection of gaskets (for specific applications) and a small bench top footprint increase the versatility of our ovens. Our unique cross-flow ventilation forces inert gas to fill the entire chamber.

- Sizes Range from 0.6 - 9 cu.ft.
- Built-in Over-Temperature Protection
- Achieves Impressive Vacuum Levels



High Temperature Insulation

The Shellab 1400 Vacuum oven series is wrapped with high temperature insulation to keep the outer surface of the oven chamber from becoming too hot to the touch. These ovens are CE Certified ensuring performance efficiency.



KF25-Fitting

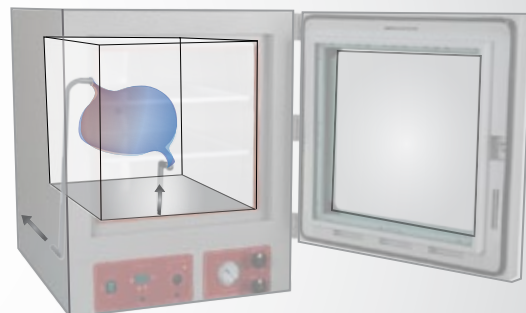
All vacuum plumbing and KF25 connections are provided.



- Exceeds CE Safety Requirements
- Cross Ventilation Air Flow Design
- Teflon Seated Vacuum Valves

Cross-Flow Ventilation

All SHEL LAB vacuum ovens feature a unique cross-flow ventilation design to ensure superior performance. The vacuum port and the vent port are located on opposite sides of the chamber to create cross flow patterns. During vacuum operation, heavy particles and condensation from the oven interior are not pulled into the vacuum pump. More importantly, Nitrogen or other inert gas is forced across the greatest distance inside the oven chamber, passing over your samples and purging the chamber. Corrosion resistant stainless steel tubing is used for the gas purge piping system.



Inert Gas Flow Diagram

Vacuum Ovens

Digital 1400 Series Models: 1445 | 1465

Suitable for many applications!

Moisture Determination
Out Gassing Solids
Aging Tests
Plating
Chemical Resistance Studies
Drying of Paper, Rubber, Textiles
Desiccating
Dry Sterilization
Out Gassing Liquids
Vacuum Storage
Electronic Process Control



Stainless Steel
Vacuum and Vent
Connections

Vacuum Oven 1465

Gasket Guide

Description	Part Number	Size	Max Temp.	Application
Black Buna	100049	9 x 9	125° C	Solvents
	100038	12 x 12	125° C	Solvents
	891054	18 x 18	125° C	Solvents
Flouro Silicone	3450610	9 x 9	230° C	Acidic
	3450611	12 x 12	230° C	Acidic
	3450612	18 x 18	230° C	Acidic
High Temperature Silicone	100029	9 x 9	230° C	High Temperature
	100037	12 x 12	230° C	High Temperature
	310028	18 x 18	230° C	High Temperature

Gasket Guide

To suit a full range of applications, we offer three types of gasket material

Achieve Precise Temperature Control!

The PID Controller, combined with efficient placement of appropriately sized heating elements, maintains precise temperature stability with no overshoot.

Model Number	1425 1425-2*	1445 1445-2*	1465 1465-2*
Chamber Capacity	0.57 cubic feet 16.5 liters	1.7 cubic feet 48.2 liters	4.5 cubic feet 127.5 liters
Control/Display	Digital Microprocessor	Digital Microprocessor	Digital Microprocessor
Temperature Range**	Ambient +10°C to 240°C	Ambient +10°C to 260°C	Ambient +10°C to 220°C
Temperature Uniformity	+/-4.0°C at 110°C	+/-3.2% at 110°C	+/-5.5°C at 110°C
Temperature Control	1°C	1°C	1°C
Heat-up (min)	35 min at 100°C	42 min at 100°C	65 min at 100°C
Exterior Dimensions (wxdxh)	17.25 x 23 x 25 in 43.8 x 58.4 x 63.5 cm	20.5 x 30.75 x 26.25 in 52.07 x 78.1 x 66.7 cm	26.5 x 35 x 36.75 in 67.3 x 89 x 93.3 cm
Interior Dimensions (wxdxh)	9 x 12 x 9.25 in 22.8 x 30.4 x 23.5 cm	12 x 20 x 12 in 30.5 x 50.8 x 30.5 cm	18 x 24 x 18.25 in 45.7 x 61 x 46.3 cm
Shelves Supplied	3	3	3
Certifications	UL, CE	UL, CE	UL, CE
Electrical Requirements Watts/Amps/Cycle Phase-120V Watts/Amps/Cycle Phase-220V	750W / 7.0A / 50/60Hz 750W / 4.5A / 50/60Hz	1100W / 9.0A / 50/60Hz 1100W / 4.5A / 50/60Hz	1500W / 13.5A / 50/60Hz 1500W / 7.0A / 50/60Hz

Versatile Design

Choose from 3/8 in. orifices or a KF25 fitting to withstand heavy use, minimize draw-down time and achieve low vacuum levels.

*-2 indicates 220V. Specifications are subject to change without notice. For the most accurate and latest information please visit www.shellab.com.

**Gasket supplied is rated 230°C

Vacuum Ovens

Work Station Model VPX9-2

- Large 9 cu. ft. capacity
- Ramp and Soak Controller
- Stainless Steel Interior and Exterior
- KF40 Fitting on Rear
- Digital Vacuum Gauge

The Model VPX9-2 is an all purpose vacuum oven specially designed for professional and industrial use. The combination of the oven and a ruggedly constructed mobile stand create an ideal vacuum application station. The stand is designed for mounting a vacuum pump at the base. All vacuum plumbing and KF40 connections are provided (vacuum pump not included).

Visit www.shellab.com for product specifications.



Vacuum Oven Station VPX9-2

Welch Dry and Highvac Vacuum Pumps are great accessories to SHEL LAB Vacuum Ovens!

For many applications, Welch Dry Vacuum Pumps will provide drying speeds equal to those of traditional, oil-seal pumps. This means you can upgrade to a cleaner vacuum pump that is easier to maintain.

Suitable samples include:

- Foods (Nuts and Cheese)
- Cosmetics
- Wet or Surface-coated Samples
Needing Moisture Dryoff
- Drying chemicals
- Solvent Evaporation

*Call Sheldon Manufacturing with questions regarding pump selection for a specific sample.

Model Name	Model Number
Model 1425 Series (.6 cubic foot capacity)	
Dry Chemical Duty	#20232B-01
Dry Standard Duty	#2561B-50
Direct Drive Oil Pump	#8905A
Model 1445 Series (1.7 cubic foot capacity)	
Dry Chemical Duty	#2042B-01
Dry Standard Duty	#2561B-50
Direct Drive Oil Pump	#8907A
Model 1465 Series (4.5 cubic foot capacity)	
Direct Drive Oil Pump	#8917A
Dry Standard Duty	#2581B-50



Welch Direct Drive High Vacuum Pump

For product specifications and additional model availability go to www.shellab.com.

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Visit our web site at www.shellab.com

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