

# Vacuum Oven

## New vacuum oven with improved usability and reliability

### Structural Functional Features

- Wide temperature range that can be controlled up to 250°C.
- Improved temperature distribution. ( $\pm 1.5^{\circ}\text{C}$  at 100°C)
- 3-point temperature calibration, high temperature accuracy over a wide temperature range.
- Inner stainless steel and aluminum shelves provide excellent corrosion resistance and clean maintenance.
- Protects equipment from overcurrent and over temperature through safety circuits.
- Vacuum line and release line are separated and convenient to use.
- The display is mounted at the top, minimizing floor size requirement.

### Use Convenience Features

- When a vacuum is formed and maintained, the toughened glass is attached to the gasket, so it is kept confined for long-time repeated use.
- Save and use 3 frequently used temperatures.
- PC connection using RS-232 port and USB port.
- Excellent visibility and viewing angle due to application of 5-inch large LCD.
- Wait On/Off timer. (up to 999 hours 59 minutes)
- Toughened glass viewing window for easy internal viewing
- Microprocessor PID method for precise temperature control.
- Automatic restart as it was operated after power recovery.
- Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)

### Outstanding Safety

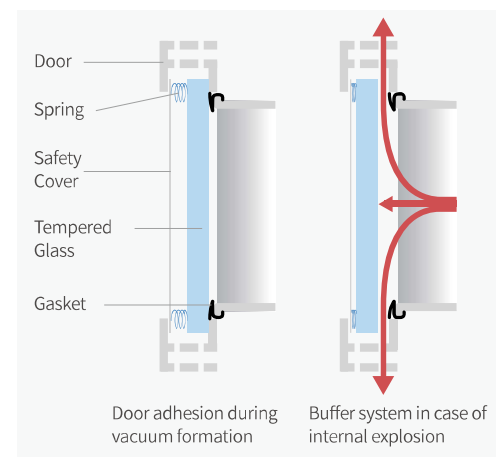
- Door structure including buffer system allows for internal pressure release through upper and lower ventilation holes when stable vacuum is formed/maintained and when there is an internal explosion.
- Polycarbonate safety cover provided in case of toughened glass breakage.
- 12 events is recorded in case of door open, error, and etc.
- Top-rated overheating protection system. (registration 10-0397583)
- Over temperature limit function.
- Safe product surface, even when operated at upper temperature.
- Malfunction prevented by controller lock function.
- Alarm if set temperature deviation outside of acceptable range.



OV4-30



Excellent visibility with 5-inch large LCD

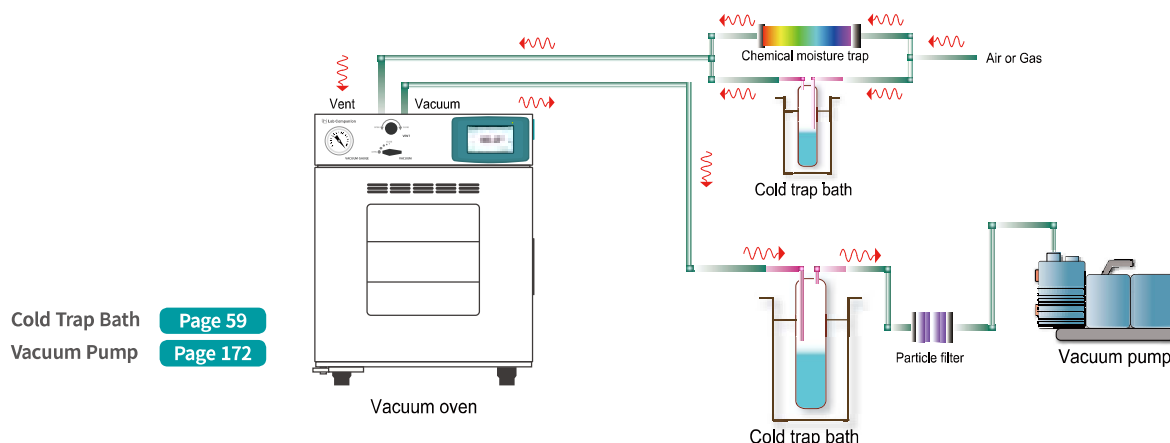


Buffer system door structure



## Vacuum Oven Use Configuration

- It is recommended to use the cold trap bath on the vacuum line to protect the weak vacuum pump against water/solvent or to supply dry air to the sample.



Cold Trap Bath [Page 59](#)  
Vacuum Pump [Page 172](#)

## Specification

Model		OV4-30	OV4-65
Chamber volume (L / cu ft)		28 / 1	65 / 2.3
Temperature	Range (°C / °F)	Amb. +15 to 250 / Amb. +27 to 482	Amb. +15 to 250 / Amb. +27 to 482
	Fluctuation at 100°C (±°C / °F)	0.1 / 0.18	0.3 / 0.54
	Variation at 100°C (±°C / °F)	1.5 / 2.7	1.5 / 2.7
	Heating time to 100°C (min.)	60	90
Vacuum gauge range, analog (Mpa)		0 to 0.1	0 to 0.1
Dimension	Interior (W x D x H, mm / inch)	302 x 305 x 302 / 11.9 x 12 x 11.9	402 x 405 x 402 / 15.8 x 15.9 x 15.8
	Exterior (W x D x H, mm / inch)	537 x 522 x 655 / 21.1 x 20.6 x 25.8	636 x 622 x 755 / 25.0 x 24.5 x 29.7
	Net weight (kg / lbs)	69 / 152.1	110 / 242.5
Shelves	Quantity of shelves (standard/max.)	2 / 2	3 / 3
	Max. Load per shelf (kg / lbs)	20 / 44.1	20 / 44.1
Electrical requirements (230V, 50 / 60Hz, A)		5	5.8
Cat. No.		AAH13315K	AAH13325K
Electrical requirements (120V, 60Hz, A)		10.2	11.7
Cat. No.		AAH13316U	AAH13326U

※ The lowest temperature that can be controlled depends on changes in room temperature and sample temperature. Therefore, please contact the distributor of our products before purchasing for technical consultation.

※ Technical data (according to DIN 12880, after 2013)

## Accessories

Description	Model	Cat. No.
Silicone Gasket	OV4-30	00FAA0005146
	OV4-65	00FAA0005147
Viton Gasket	OV4-30	00FAA0005187
	OV4-65	00FAA0005188
Safety Cover	OV4-30	AAA13603
	OV4-65	AAA13604
LC GreenBox	OV4-30	AAAQ1011
	OV4-65	AAAQ1011

### Silicone Gasket

Basics are included, and structure allows for easy replacement.

### Viton Gasket

Viton gasket with excellent chemical resistance.

### Safety Cover (Standard)

User and laboratory protection in case of toughened glass breakage.

### LC GreenBox

Monitor the operation status of the device in real time via mobile app with simple internet connection.