

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

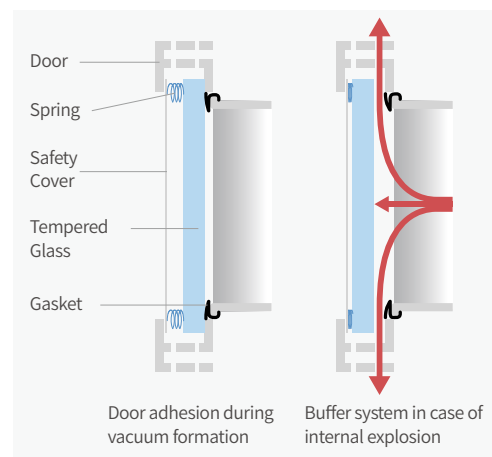
- Door structure including buffer system allows for internal pressure release through upper and lower ventilation holes when stable vacuum is formed/maintained and when there is an internal explosion.
- Polycarbonate safety cover provided in case of toughened glass breakage.
- 12 events is recorded in 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



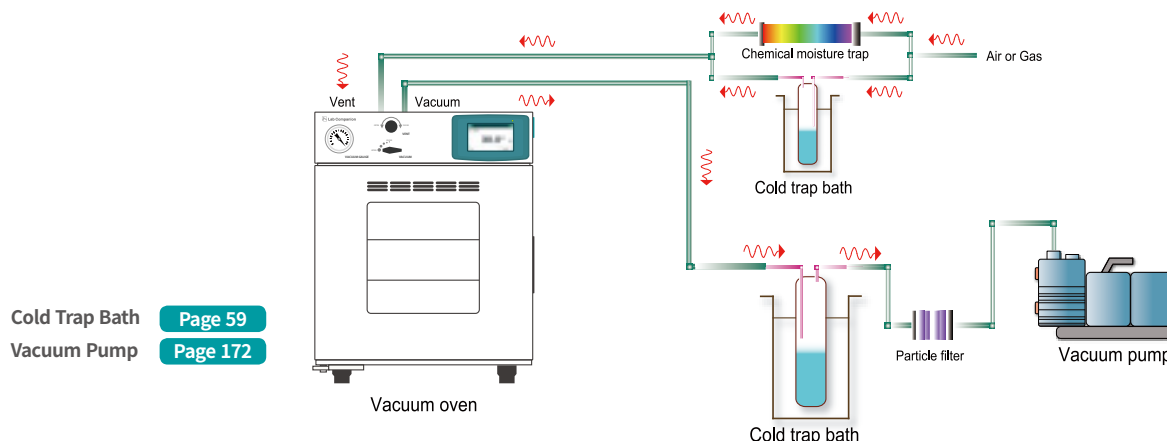
Excellent visibility with 5-inch large LCD



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	

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.