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. (±1.5°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.
· Viton gasket when drying chemical substances which has a high reactivity. (option)

⬛ 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.
· BMS communication port that helps monitor the device temperature on the building management system.
· Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)
· Recording the most recent events, such as start/stop of operation and error occurrence.
· PC connection using RS-232 port and USB port.
· Excellent visibility and viewing angle due to application of large LCD.
· Auto 3 temperature recommendation based on operating history without any recording or storage.
· Wait On/Off timer. (up to 99 hours 59 minutes)
· Test data is automatically saved and easily downloaded via USB (CSV format) (except for OV4-30S/65S model)
· Real-time graphs that allow users to view events and alarms at a glance (except for OV4-30S/65S model)
· By selecting the ramp rate (°C/min), you can limit the speed of temperature rise when using (except for OV4-30S/65S model)

⬛ 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.
· Top-rated overheating protection system. (registration KR 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.

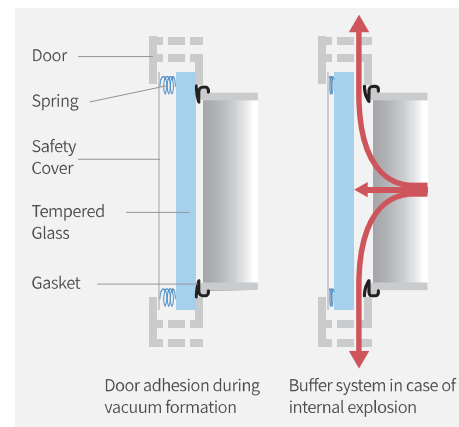**OV4-30**
with Shelves 2ea (standard)
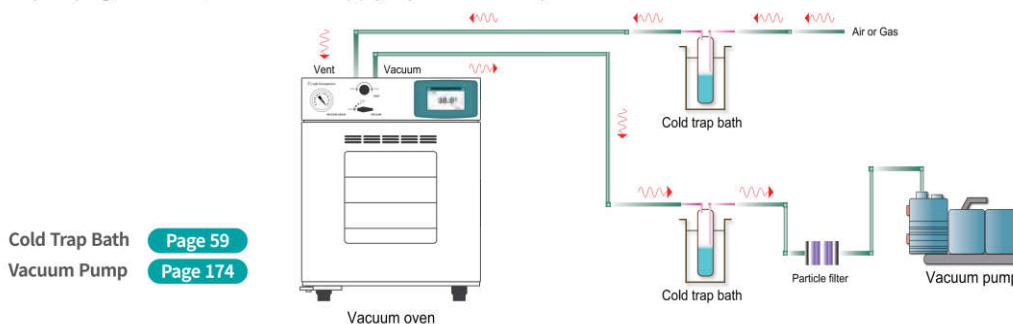

Excellent visibility with 5-inch large LCD

Door
Spring
Safety Cover
Tempered Glass
Gasket

Door adhesion during vacuum formation

Buffer system in case of internal explosion

Buffer system door structure

CE	USB Data Save	Real-time Graph	LC Connected	Safety Patented	Touch Display	3 Points Temperature Calibration	Deviation Warning	Over Temp.	Timer	Computer Interface	Auto Run	2 year Warranty

◢◤ 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 174 |

Specification

Model		OV4-30	OV4-30S*	OV4-65	OV4-65S*
Control panel		5 inch	3.5 inch	5 inch	3.5 inch
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)	0.2 / 0.36		0.2 / 0.36	
	Variation at 100°C (±°C / °F)	1.5 / 2.7		1.5 / 2.7	
	Heating time to 100°C (min.)	70		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)	68 / 150		107 / 235.9	
Shelves	Quantity of shelves (standard / max.)	2 / 3		3 / 4	
	Max. Load per shelf (Kg / lbs)	20 / 44.1		20 / 44.1	
Material		Body: Stainless Steel, Shelf: Aluminum		Body: Stainless Steel, Shelf: Aluminum	
Electrical requirements (230V, 50/60Hz, A)		5.7		6.7	
Cat. No.		AAH13315K	AAH13335K	AAH13325K	AAH13345K
Electrical requirements (120V, 60Hz, A)		10.2		11.7	
Cat. No.		AAH13316U	AAH13336U	AAH13326U	AAH13346U

※ 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)
※ You can add an extra shelf that can be placed at the bottom to experiment with more samples same time, and the value of Variation and Fluctuation may increase slightly.
 * Some convenience features are excluded for OV4-30S, OV4-65S models. (real-time graphs, data storage, etc.)

Accessories

Description		Cat. No.	
		OV4-30/30S	OV4-65/65S
Silicone Gasket	Basic bundle accessory. Silicon gasket for sealing the door.	00FAA0005146	00FAA0005147
Viton Gasket	High chemical resistance.	00FAA0005187	00FAA0005188
LC GreenBox	Mobile connection adapter. Available real-time monitoring and control on Lab Companion mobile app.	AAAQ1011K	AAAQ1011

Description	Position (OV4-30[3)])	Material	Cat. No.	
			OV4-30/30S	OV4-65/65S
Bottom shelf, Basic[2)]		Aluminum	AAA13519	AAA13520
		STS	AAA13529	AAA13530
Extra shelf, Optional[1)]		Aluminum	AAA13511	AAA13513
		STS	AAA13521	AAA13523
Lower shelf, Basic[2)]		Aluminum	AAA13517	AAA13518
		STS	AAA13527	AAA13528
Upper shelf, Basic[2)]	Bottom / Lower / Extra / Upper	Aluminum	AAA13512	AAA13514
		STS	AAA13522	AAA13524
Shelf spacer, Basic[2)]	Insert where the gap occurs	Aluminum	AAA13515	AAA13516
		STS	AAA13525	AAA13526

1) You can add an extra shelf that can be placed at the bottom to experiment with more samples same time, and the value of Variation and Fluctuation may increase slightly.
2) The shelf and shelf spacer are included as bundled accessories, and you can purchase when need to replace them.
3) For OV4-65 models, 2 upper shelves are basic provided.