

# Lab Companion Forced Convection Oven

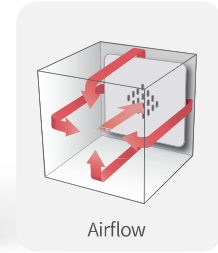
## Advanced type (Model: OF4-V)



OF4-10V



OF4-10VW

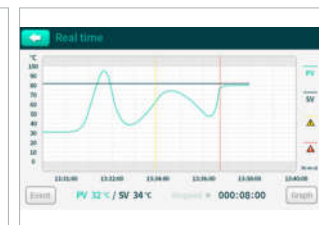


### Wide touch-screen controller that provides the device information intuitively

- 5-Inch TFT touch controller that enables intuitive control of the device.
- Real-time graphs that allow users to view events and alarms at a glance so that the test progress can be easily and intuitively monitored.
- Auto 3 temperature recommendation based on operating history without any recording or storage.
- Wait on/Wait off timer setting allowing efficient test schedule management.
- Ramping rates (°C/min) flexibly adjustable for each test performed.



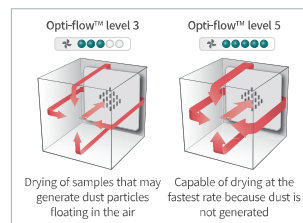
5-Inch TFT touch controller



Graphs that allow users to monitor the test progress at a glance

### Structural and functional features for improved user convenience

- Opti-flow™, a function to flexibly adjust the fan speed according to the specimen type and test conditions
- Stacking Kit (option) ensuring the safe fitting of one unit to another, thus doubling the amount of work done in a given area for improved space efficiency.
- Hands-free™ door system to allow users to easily open the door while carrying samples with both hands.



Fan speed can be adjusted manually according to the sample properties



Two-unit stacking for improved space efficiency (option)

### Real-time monitoring to check status of device

- BMS communication port that helps monitor the device temperature on the building management system, enabling quick response in case of abnormality. (option)
- Monitor and control via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (option)



BMS communication port that helps enable quick response through continuous monitoring (option)



Real-time monitoring and control via mobile (option)

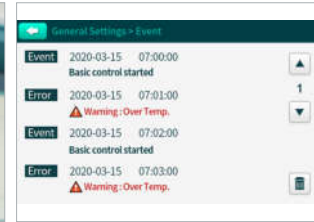


## Convenient checking for the test progress and data

- RS-232/USB port and compatible software provided to enable easy device control and data management using PC.
- Test data is automatically saved and easily downloaded via USB; easy to edit and use. (in CSV format)
- 36 latest events, such as errors and door opened or closed, automatically recorded, helping user obtain feedback on experimental results.



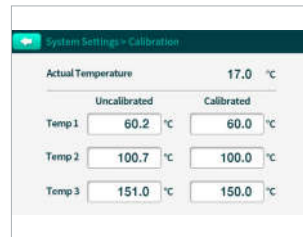
Data storage using USB ports



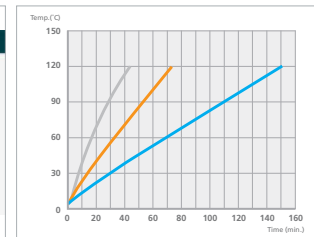
Up to 36 latest events automatically recorded

## Reliable temperature control performance based on stable control mechanisms

- Wide temperature range of up to 250°C.
- Three-point temperature calibration that ensures high-temperature accuracy over a wide temperature range.
- Ramping rates (°C/min) flexibly adjustable for each test performed.
- Excellent temperature distribution through the formation of optimal airflow for uniform heat transfer. ( $\pm 1.9^\circ\text{C}$  or below at  $100^\circ\text{C}$ )



Three-point temperature calibration that ensures precise temperature control



Ramping rates adjusted for each test performed

## Specification (OF4-V)

Model	Solid door (without window)	OF4-03V	OF4-05V	OF4-10V	OF4-15V
	Window door	OF4-03VW	OF4-05VW	OF4-10VW	OF4-15VW
<b>Chamber volume (L / cu ft)</b>		26 / 0.92	61 / 2.15	112 / 3.96	147 / 5.19
<b>Temperature<sup>1)</sup></b>	Range (°C / °F)	Amb. + 10~250 / Amb. + 18 ~ 482			
	Fluctuation at 100°C ( $\pm^\circ\text{C}$ / $\pm^\circ\text{F}$ )	0.3 / 0.54	0.3 / 0.54	0.3 / 0.54	0.3 / 0.54
	Variation at 100°C ( $\pm^\circ\text{C}$ / $\pm^\circ\text{F}$ )	1.4 / 2.52	1.9 / 3.42	1.7 / 3.06	1.5 / 2.70
	Heating time to 100°C (min)	8	10	14	15
	Recovery time at 100°C (min)	4	4	4	4
<b>Control panel</b>	5 inch TFT Color LCD				
<b>Communication interface</b>	USB-B, RS-232				
<b>Function</b>	Recently event record	36 ea			
	Fan speed adjustable	Three-step wind speed settings			
	Recommended temperature	Three frequently used temperature settings suggested			
	Graph	Available checking the stored and real-time data as graphs			
	Data storage	Save the test data in CSV format			
	Temp. ramping rate (°C/min. / °F/min.)	0~13 / 0~23.4	0~9 / 0~16.2	0~6 / 0~10.8	0~5 / 0~9
<b>Dimensions</b>	Interior (W x D x H, mm / inch)	300 x 210 x 400 / 11.80 x 8.27 x 15.75	380 x 330 x 480 / 14.97 x 13.0 x 18.90	485 x 350 x 655 / 19.09 x 13.78 x 25.79	550 x 376 x 710 / 21.65 x 14.80 x 27.95
	Exterior (W x D x H, mm / inch)	478 x 527 x 604 / 18.82 x 20.75 x 23.78	558 x 648 x 684 / 21.97 x 25.51 x 26.93	663 x 677 x 859 / 26.1 x 26.65 x 33.82	728 x 704 x 914 / 28.66 x 27.72 x 35.98
	Net weight (kg / lbs)	33 / 72.8	53 / 116.8	63 / 138.9	73 / 160.9
<b>Shelves</b>	Quantity of shelves (standard / max.)	2 / 4	2 / 5	2 / 8	2 / 9
	Max. Load per shelf (kg / lbs)	30 / 66.1			
<b>Number of air change per hour at 100°C<sup>2)</sup></b>		123	22	18	11
<b>Electrical requirements (230V, 50/60Hz, A)</b>	6.4				
<b>Cat. No.</b>	Solid door (without window)	AAH12715K	AAH12725K	AAH12735K	AAH12745K
	Window door	AAH12815K	AAH12825K	AAH12835K	AAH12845K
<b>Electrical requirements (120V, 60Hz, A)</b>	12.3				
<b>Cat. No.</b>	Solid door (without window)	AAH12716U	AAH12726U	AAH12736U	AAH12746U
	Window door	AAH12816U	AAH12826U	AAH12836U	AAH12846U

1) This data was measured when the fan speed was set to Step 5. If the fan speed is set to Step 1 or Step 3, the fluctuation and variation values will increase. (According to DIN 12880, before 2013)

2) This data was measured when the fan speed was set to Step 5. If the fan speed is set to Step 1 or Step 3, the number of air changes may decrease. (According to ASTM D 5374, reapproved 1999)