

Lab Companion Forced Convection Oven

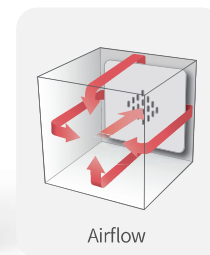
Program type (Model: OF4-P)



OF4-10P

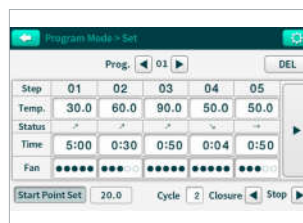


OF4-10PW

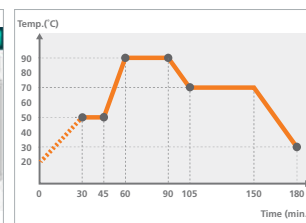


Easy setting program temperature for everyone

- User interface that provides a quick view of temperature changes (heating, stable, and cooling) and fan speed also.
- Set various test condition using 10 programs and 10 steps, which can be repeated up to 99 times.
- Start temperature, temperature and time for each step, and Opti-flow™ all adjustable as desired.



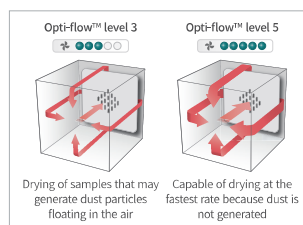
Easy and intuitive program setting interface



Program setting can be flexibly adjusted according to each test requirement

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 (optional) 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



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)

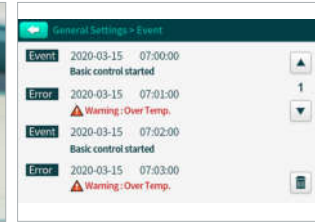


Convenient checking for the test progress and data

- 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.



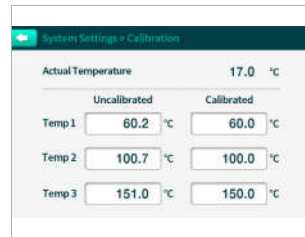
Data storage using USB ports



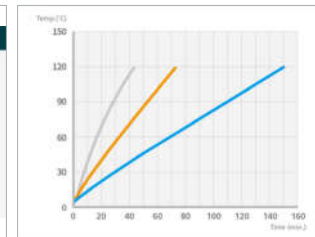
Up to 36 latest events automatically recorded

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°C)



Three-point temperature calibration that ensures precise temperature control



Ramping rates adjusted for each test performed

Specification (OF4-P)

Model	Solid door (without window)	OF4-03P	OF4-05P	OF4-10P	OF4-15P
	Window door	OF4-03PW	OF4-05PW	OF4-10PW	OF4-15PW
Chamber volume (L / cu ft)		26 / 0.92	61 / 2.15	112 / 3.96	147 / 5.19
Temperature¹⁾	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
Control panel	5 inch TFT Color LCD				
Communication interface	USB-B, RS-232				
Function	Program setting	10 program, 10 step, start temp.			
	Scheduler	Set day, time, and program No.			
	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
Dimensions	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
Shelves	Quantity of shelves (Standard / max.)	2 / 4	2 / 5	2 / 8	2 / 9
	Max. Load per shelf (kg / lbs)	30 / 66.1			
Number of air change per hour at 100°C²⁾		123	22	18	11
Electrical requirements (230V, 50/60Hz, A)	6.4				
Cat. No.	Solid door (without window)	AAH12915K	AAH12925K	AAH12935K	AAH12945K
	Window door	AAH12955K	AAH12965K	AAH12975K	AAH12985K
Electrical requirements (120V, 60Hz, A)	12.3				
Cat. No.	Solid door (without window)	AAH12916U	AAH12926U	AAH12936U	AAH12946U
	Window door	AAH12956U	AAH12966U	AAH12976U	AAH12986U

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)