

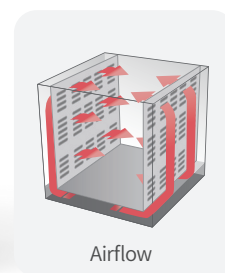
# Natural Convection Oven, Standard type (ON4-S)



ON4-10S



ON4-10SW



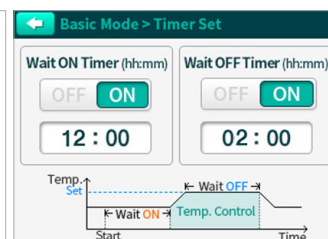
Airflow

## Intuitive Touch Controller

- Intuitive interface with 3.5-inch display
- 'Wait on / Wait off' timer function



3.5-inch touch display



Wait on & Wait off timer

## Reliable Temperature Control Performance

- Wide temperature range of up to 250°C
- Temperature accuracy for wide range by 3-point calibration
- The upper and lower temperature limits can be set, enabling alerts for deviations to trigger quick actions
- Uniform temperature distribution through airflow optimized for uniform heat transfer (within  $\pm 3.6^{\circ}\text{C}$  at  $100^{\circ}\text{C}$ )

System Settings > Calibration		
Actual Temperature	5.0 °C	
	Uncalibrated	Calibrated
Temp 1	5.0 °C	5.0 °C
Temp 2	1100 °C	1100 °C
Temp 3	1 °C	1 °C

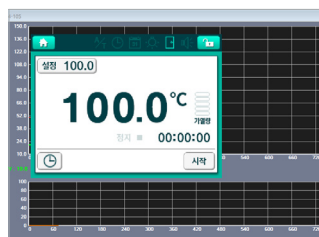
Accurate temperature control with 3-point calibration

System Settings > Alarm	
High Deviation Temp.	+ 5.0 °C
Low Deviation Temp.	- 5.0 °C
High Temperature	1100 °C
Door Open Alarm Delay	1 min

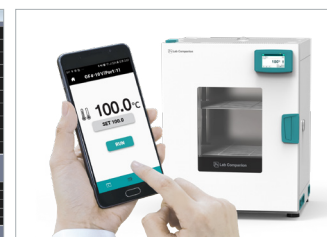
Settings for temperature deviation

## Convenient Experiment and Data Checking

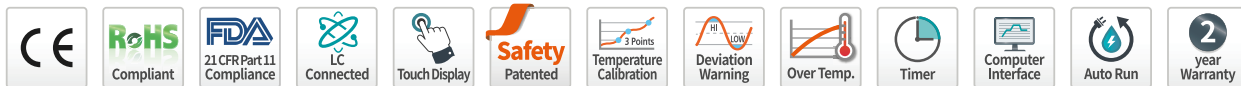
- Support RS-232/USB port and software making easy operation and data management from PC (option)
- Monitor and control anywhere, anytime with LC GreenBox (Mobile Monitoring System, option)
- Monitor the temperature on BMS (Building Management System) for quick responses to abnormalities. (option)
- Integrated with 21 CFR Part 11 compliant LC DataKeeper, suitable for GMP audits (option)



Manipulation via PC (option)

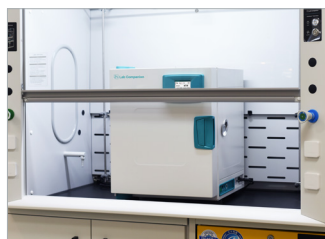


Real-time monitoring via mobile devices (LC GreenBox: option)

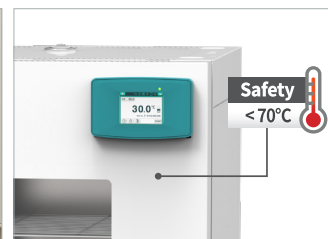


## Ensuring User Safety

- Effectively removes fumes from the inside of the chamber via the top vent hole (ON4-03)
- Safe surface even when operating at max temperatures (less than 70°C at 250°C)
- Implemented with the top-rated overheating prevention system (Patent 10-0397583)
- Over Temperature Limiter
- Complaint to IEC Class II protection standards and temperature protection in line with DIN 12880 Class 3.1



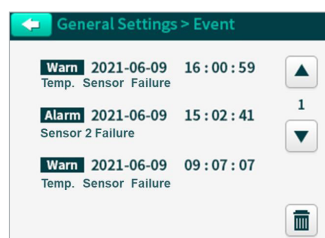
Removes fume from the inside of the chamber



Safe surface even at maximum temperature

## Convenient Structure and Functions

- Logs the last 12 events, including run times, stops, and errors
- Double stackable with stacking set (option) maximizes space utilization (-05 / -15 models only)
- 「Hands-free™」 door allows both hands free while holding samples



Logs the recent 12 events



Increased space utilization by double stacking (stacking set : option)  
(※ When double stacking, the minimum control temperature of the upper chamber may be limited.)

## Specification

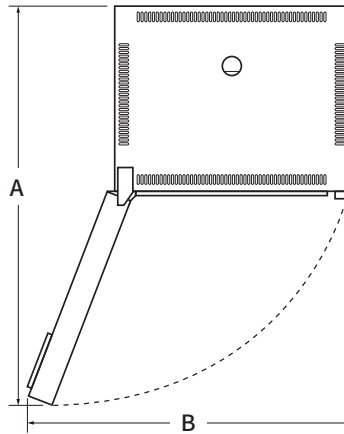
Model	Solid door (without window)	ON4-03S	ON4-05S	ON4-10S	ON4-15S
	Window door	ON4-03SW	ON4-05SW	ON4-10SW	ON4-15SW
Chamber volume (L / cu ft)		26 / 0.92	58 / 2.05	110 / 3.88	147 / 5.19
Temperature	Range (°C / °F)	Amb.+15 ~ 250°C / Amb.+27 ~ 482°F			
	Fluctuation at 100°C (°C / °F)	±0.4 / ±0.72	±0.5 / ±0.9	±0.5 / ±0.9	±0.5 / ±0.9
	Variation at 100°C (°C / °F)	±2.8 / ±5.04	±2.6 / ±4.68	±3.6 / ±6.48	±3.5 / ±6.3
	Heating time to 100°C (min.) <sup>1)</sup>	25	39	22	21
	Recovery time at 100°C (min.)	17	19	10	9
Control panel		3.5 inch TFT Color LCD			
Communication interface		USB-B, RS-232 (option)			
Function	Recently event record	12 ea			
Dimensions	Interior (W x D x H, mm / inch)	273 x 270 x 350 / 10.75 x 10.63 x 13.78	340 x 390 x 422 / 13.4 x 15.35 x 16.61	441 x 420 x 597 / 17.36 x 16.54 x 23.5	500 x 446 x 659 / 19.69 x 17.56 x 25.95
	Exterior (W x D x H, mm / inch)	478 x 527 x 604 / 18.8 x 20.75 x 23.78	558 x 648 x 684 / 21.97 x 25.5 x 26.93	663 x 677 x 859 / 26.1 x 26.65 x 33.82	728 x 704 x 914 / 28.66 x 27.7 x 36.0
	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)	20 / 44.09			
Number of air change per hour at 100°C		16			
Electrical requirements	230V, 50/60Hz, A	3.2	3.5	5.7	7.4
Cat. No.	Solid door (without window)	AAH15045K	AAH15065K	AAH15075K	AAH15085K
	Window door	AAH15145K	AAH15165K	AAH15175K	AAH15185K
Electrical requirements	120V, 60Hz, A	6	6.7	10.9	14.2
Cat. No.	Solid door (without window)	AAH15046U	AAH15066U	AAH15076U	AAH15086U
	Window door	AAH15146U	AAH15166U	AAH15176U	AAH15186U

1) Heating time is defined as the time taken to reach 98% of the set temperature.

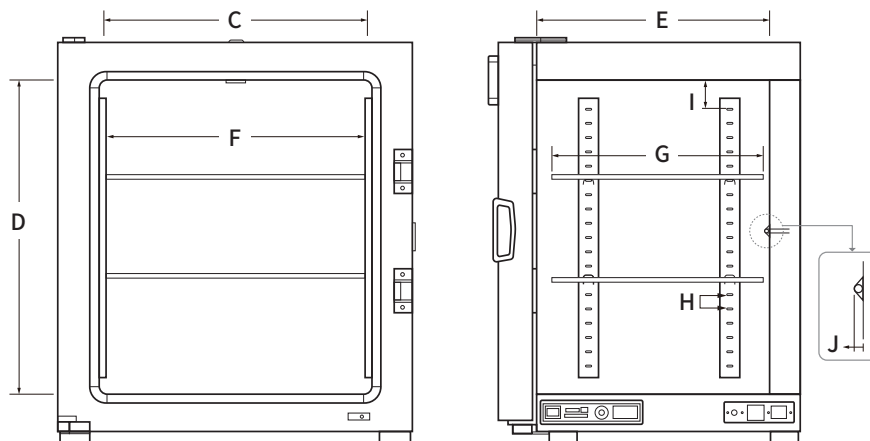
※ Technical data according to DIN 12880

## Dimensions (OF4/ON4)

### Exterior



### Interior



(unit: mm / inch)

Model	OF4-03	ON4-03	OF4-05	ON4-05	OF4-10	ON4-10	OF4-15	ON4-15
<b>A: Maximum depth with door opened</b>	868 / 34.2		1060 / 41.7		1185 / 46.7		1271 / 50.0	
<b>B: Maximum width with door opened</b>	695 / 27.4		809 / 31.9		958 / 37.7		1050 / 41.3	
<b>C: Interior width<sup>1)</sup></b>	300 / 11.8	273 / 10.7	380 / 15.0	340 / 13.4	485 / 19.1	441 / 17.4	550 / 21.7	500 / 19.7
<b>D: Interior height<sup>1)</sup></b>	400 / 15.7	350 / 13.8	480 / 18.9	422 / 16.6	655 / 25.8	597 / 23.5	710 / 28.0	659 / 25.9
<b>E: Interior depth<sup>1)</sup></b>	210 / 8.3	270 / 10.6	330 / 13.0	390 / 15.4	350 / 13.8	420 / 16.5	376 / 14.8	446 / 17.6
<b>F: Shelf width</b>	266 / 10.5		346 / 13.6		451 / 17.8		516 / 20.3	
<b>G: Shelf depth</b>	195 / 7.7		315 / 12.4		335 / 13.2		361 / 14.2	
<b>H: Gap between shelf racks</b>	30 / 1.2		30 / 1.2		30 / 1.2		30 / 1.2	
<b>I: Gap between uppermost shelf and interior ceiling<sup>1)</sup></b>	80 / 3.1	50 / 2.0	90 / 3.5	60 / 2.4	88 / 3.5	57 / 2.2	85 / 3.3	59 / 2.3
<b>J: Space for sensor installation</b>	3.8 / 0.15		3.8 / 0.15		3.8 / 0.15		3.8 / 0.15	

1) ON4 uses a multi-path convection method, which causes differences in internal dimensions.