

UV Sterilization Cabinets



Ideal for effective decontamination of apparatus before carrying out PCR experiments using a high-quality UV lamp with timer control.



UVC-11

Standard accessories
see page 73

- UV lamp
- Fluorescent lamp



Performance

- Effective sterilization using a long-life 254 nm UV lamp. (average life span of UV lamp: 8,000 hours)
- Built in anti-glare fluorescent lamp minimizes shadows and relieves eye strain.

Convenience

- User-friendly microprocessor-based control panel.
- Digital UV light timer for convenient use.
- Easy-settable digital timer for UV light exposure to deactivate DNA and RNA contaminants. (wait off, max. 30min.)
- Easy-to-clean grade 304 stainless steel work surface with high chemical resistance against various organic solvents.

Safety

- Interlocking safety door system shuts off UV light automatically when opening the door.
- UV-blocking door and side panels made of transparent acrylic resin provides clear inside view.
- UV over-exposure alarm and over-current protection.

Model		UVC-01		UVC-11		UVC-21		
Illumination	Intensity	Fluorescent lamp (Lux)	>800	>900	>1000			
		UV density (μW / cm ²)	300 ± 10%	350 ± 10%	300 ± 20%			
	Capacity	Fluorescent lamp (W)	8×1ea	15×1ea	20×1ea			
		UV lamp (254nm, W)	8×1ea	15×1ea	20×1ea			
Material	Work surface		Stainless steel grade 304					
	Window (front, back / side)		5 mm thick acrylic resin					
Dimension (W×D×H)	Interior (mm / inch)		433×500×468 / 17.0×19.7×18.4	583×500×468 / 23×19.7×18.4		880×500×468 / 34.6×19.7×18.4		
	Exterior (mm / inch)		450×509×610 / 17.7×20×24	600×509×610 / 23.6×20×24		900×509×610 / 35.4×20×24		
	Net weight (kg / lbs)		15 / 33.1	17.5 / 38.6		20 / 44.1		
Electrical requirements (230V)			60Hz, 0.1A	50Hz, 0.1A	60Hz, 0.2A	50Hz, 0.2A	60Hz, 0.3A	50Hz, 0.3A
Cat. No.			AAHB4001K	AAHB4002K	AAHB4011K	AAHB4012K	AAHB4021K	AAHB4022K
Electrical requirements (120V)			60Hz, 0.2A		60Hz, 0.4A		60Hz, 0.6A	
Cat. No.			AAHB4003U		AAHB4013U		AAHB4023U	

FDA establishment registered company. FDA listed products.

for PCR workstations / UV sterilization cabinets

General UV dose and time required

Pathogen	Average UV dose required ($\mu\text{W} \cdot \text{s}/\text{cm}^2$)	Average UV time required ($\mu\text{W}/\text{cm}^2/\text{sec.}$)					
		PW-01	UVC-01	PW-11	UVC-11	PW-21	UVC-21
		165	300 $\pm$ 10%	185	350 $\pm$ 10%	330	300 $\pm$ 20%
S. enteritidis	4,000	25	15	22	13	13	17
B. megatherium sp. (spores)	2,730	17	11	15	9	9	12
B. subtilis	7,100	43	27	39	23	22	30
Eberthella typhosa	2,140	13	8	12	7	7	9
Escherichia coli (E. coli)	3,000	19	12	17	10	10	13
Micrococcus candidus	6,050	37	23	33	20	19	26
Proteus vulgaris	2,640	16	10	15	9	8	11
Pseudomonas aeruginosa	5,500	34	21	30	18	17	23
Pseudomonas aeruginosa	3,500	22	13	19	12	11	15
S. typhimurium	8,000	49	30	44	26	25	34
Shigella paradysenteriae	1,680	101	7	10	6	6	7
Spirillum rubrum	4,400	27	17	24	14	14	19
Staphylococcus albus	1,840	12	17	10	6	6	8

Above listed applications are for general purpose use.



HEPA filter (for PW)



Fluorescent lamp



UV lamp

for PCR workstations

Cat. No.	Description	PW-01	PW-11	PW-21
AAAB3511	Pre filter	•	-	-
AAAB3512		-	•	-
AAAB3513		-	-	•
EDA9219	HEPA filter	•	-	-
EDA9220		-	•	-
EDA9221		-	-	•
CHE4436	Fluorescent lamp	•	-	-
CHE4410		-	•	-
CHE4409		-	-	•
CHE4431	UV lamp	•	-	-
CHE4427		-	•	-
CHE4423		-	-	•

for UV sterilization cabinets

Cat. No.	Description	UVC-01	UVC-11	UVC-21
CHE4435	Fluorescent lamp	•	-	-
CHE4436		-	•	-
CHE4410		-	-	•
CHE4434	UV lamp	•	-	-
CHE4431		-	•	-
CHE4427		-	-	•