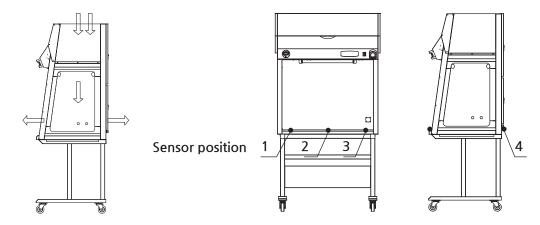
06. CLEAN BENCH & HOOD



Laminar Clean Bench	85
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Clean Bench -Feature

Laminar flow sheet

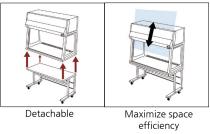


Step Position	1	2	3	4
0	0m/s	0m/s	0m/s	0m/s
1	0.2m/s	0.2m/s	0.2m/s	0.1m/s
2	0.6m/s	0.6m/s	0.6m/s	0.4m/s
3	0.9m/s	0.9m/s	0.9m/s	0.9m/s
4	1.9m/s	1.9m/s	1.9m/s	1.8m/s
5	2.2m/s	2.2m/s	2.2m/s	2.1m/s
6	2.4m/s	2.4m/s	2.4m/s	2.2m/s
7	2.3m/s	2.3m/s	2.3m/s	2.3m/s
8	2.3m/s	2.4m/s	2.4m/s	2.3m/s
9	2.3m/s	2.4m/s	2.4m/s	2.3m/s
10	2.3m/s	2.4m/s	2.3m/s	2.3m/s

Feature



Informing filter replacement







Easy to change









Operation supporting utilities

Safety devices

Digital micropross controller

UV Lamp turns off as window opens



Laminar Clean Bench

The Laminar Clean Bench is suitable for use within a manufacturing area, laboratory or a cleanroom. This unit protects sensitive samples and processes from airborne particulate.

Only extreme air passing down over the process is ensured through the HEPA filtered unidirectional down flow.

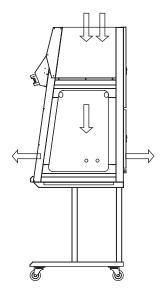
This method guarantees that air will be free of any particles and that any particles generated from the process will be pushed away, maintaining it contamination free area.











Model	SH-HD-900V	SH-HD-1500V	SH-HD-1900V	
Туре	Laminar Vertical Down Flow			
Dimension Internal	860x613×690mm	1391x613×690mm	1891x613×690mm	
(W×D×H)	33.86x24.13x27.17''	54.76x24.13x27.36''	74.45x24.13x27.36''	
Dimension External	966x696×1820mm	1496x696×1820mm	1996x696×1820mm	
(W×D×H)	35.43x30.71x74.80''	59.06x30.71x74.80''	74.80x30.71x74.80''	
Weight	130 Kg	190 Kg	230 Kg	
Control System		Microprocessor LCD Digital Controller		
Main Filter	F	Hefa Filter 0.3µm 99.97% Efficient Filt	er	
Material External	Steel Plate with Powder Heating Coated			
Working Table		Stainless Steel		
Illumination LED Lamp	10W, Length 600mm	20W, Leng	th 1200mm	
Illumination UV Lamp	15W x 1EA	32W	x 1EA	
UV Time Range	00.00 to	99HR 59MIN (MIN SEC) Selectable LC	D Counter	
Winding Velocity		0.2~2.3M/SEC, 10 Step Adjustable		
Purity		Below to Class 100		
Door Type		Tempered Glass by Weight Balance		
Electrical Requirements	120V,230V, 1Φ			
Cat. No. 120V, 50Hz	HD900V120-50 HD1500V120-50		HD1900V120-50	
Cat. No. 120V, 60Hz	HD900V120-60	HD1500V120-60	HD1900V120-60	
Cat. No. 230V, 50Hz	HD900V230-50	HD1500V230-50	HD1900V230-50	
Cat. No. 230V, 60 Hz	HD900V230-60	HD1500V230-60	HD1900V230-60	

- Safety Device
- -Air & Gas Port
- -Fan motor over load Protection
- -Automatic reset function incoming power cut
 -Buzzer on and UV Lamp cut off when set time arrived
- -UV Lamp turns off as window opens
- -Emergency stop button

Biosafety Cabinet

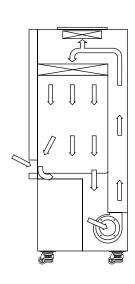
The Biosafety Cabinet is an enclosed, ventilated laboratory workspace made for working with materials contaminated or possibly contaminated with pathogens, thus, requiring a specified biosafety level.

Our Biosafety Cabinet ensures both the safety of its users and samples as it prevents the air from the cabinet to the surrounding environment.









Model	SH-HD-900B	SH-HD-1500B	SH-HD-1900B		
Туре	Bio Hazard Type(Class II A2)				
Dimension Internal	740x600x750mm	1340x600x750mm	1740x600x750mm		
(W×D×H)	29.13x23.62x29.53''	52.76x23.62x29.53''	68.50x23.62x29.53''		
Dimension External	900x825×1875mm	1500x825×1900mm	1900x825×1900mm		
(W×D×H)	35.43x32.48x73.81''	59.06x32.48x74.80''	74.80x32.48x74.80''		
Weight	210 Kg	265 Kg	305 Kg		
Control System		Microprocessor LCD Digital Controller			
Main Filter	H	lefa Filter 0.3µm 99.97% Efficient Filte	er		
Material Internal		Stainless Steel			
Material External	Steel Plate with Powder Heating Coated				
Utility	Air & Gas Port				
Illumination LED Lamp	10W, Length 600mm	20W, Lengt	:h 1200mm		
Illumination UV Lamp	15W x 1EA	32W	x 1EA		
UV Time Range	00.00 to 9	99HR 59MIN (MIN SEC) Selectable LCI	D Counter		
Winding Velocity		0.2~1.9M/SEC, 10 Step Adjustable			
Purity		Below to Class 100			
Door Type		Tempered Glass by Weight Balance			
Electrical Requirements	120V,230V, 1Φ				
Cat. No. 120V, 50 Hz	HD900B120-50	HD900B120-50 HD1500B120-50 HD1900B1			
Cat. No. 120V, 60 Hz	HD900B120-60	HD1500B120-60	HD1900B120-60		
Cat. No. 230V, 50 Hz	HD900B230-50	HD1500B230-50	HD1900B230-50		
Cat. No. 230V, 60 Hz	HD900B230-60	HD1500B230-60	HD1900B230-60		

• Safety Device

- -Fan motor over load Protection
- -Automatic reset function incoming power cut
- -Buzzer on and UV Lamp cut off when set time arrived
- -Emergency stop button

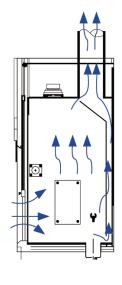


Fume Hood

A fume hood is a type of local ventilation device that is designed to limit exposure to hazardous or toxic fumes, vapors or dusts. A fume hood is typically a large piece of equipment enclosing five sides of a work area, the bottom of which is most commonly located at a standing work height.

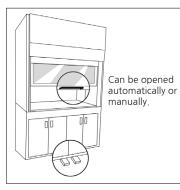
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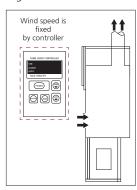


Option

Automatic Door Control



Digital Controller



Model	SH-HDO-1200UP	SH-HDO-1500UP	SH-HDO-1800UP	SH-HDO-2100UP	SH-HDO-2400UP		
Type	Fume Hood Type						
Dimension External	1200x800x2350mm	1200x800x2350mm					
(W×D×H)	47.24x31.50x92.52''	59.06x31.50x92.52''	70.87x31.50x92.52''	82.68x31.50x92.52''	94.49x31.50x92.52''		
Post			Aluminum				
Exterior Wall			Phenolic Laminate 4T Plate	2			
Interior Wall			Phenolic Laminate 4T Plate	2			
Cabinet	75x45 & 40x40 SS41 SQ Pipe W / Baked Powder						
Window	Tempered Safety Glass 5.0t						
Work Top	Chemtop 10t Plate						
Utility		Water (Cock, Air Cock, Gas Cock, G	Cup sink			
Lamp			LED Lamp				
Exhaust Duct	200Φ P.V.C Pipe 250Φ P.V.C Pipe						
Face Velocity & VAV System	Option						
Cat. No. 120V	HD1200UP120	HD1500UP120	HD1800UP120	HD2100UP120	HD2400UP120		
Cat. No. 230V	HD1200UP230	HD1500UP230	HD1800UP230	HD2100UP230	HD2400UP230		

Built-In Fan Motor



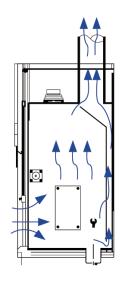
Model	SH-HDF-1200UP	SH-HDF-1500UP	SH-HDF-1800UP	SH-HDF-2100UP	SH-HDF-2400UP
Cat. No. 120V, 50 Hz	HDF1200UP120-50	HDF1500UP120-50	HDF1800UP120-50	HDF2100UP120-50	HDF2400UP120-50
Cat. No. 120V, 60 Hz	HDF1200UP120-60	HDF1500UP120-60	HDF1800UP120-60	HDF2100UP120-60	HDF2400UP120-60
Cat. No. 230V, 50 Hz	HDF1200UP230-50	HDF1500UP230-50	HDF1800UP230-50	HDF2100UP230-50	HDF2400UP230-50
Cat. No. 230V, 60 Hz	HDF1200UP230-60	HD1500UP230F-60	HDF1800UP230-60	HDF2100UP230-60	HDF2400UP230-60

Fume Hood



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Option







Cabinet (General type)

Cabinet (Fire safety type)

Storage Cabinet (Acid&Corrosive safety type)





Automatic spreading fire extinguisher

Support Frame (SUS rack)

Model	SH-HD-1200UP	SH-HD-1500UP	SH-HD-1800UP	SH-HD-2100UP	SH-HD-2400UP	
Туре	Fume Hood Type					
Dimension External	1200x800x2350mm	1200x800x2350mm 1500x800x2350mm 1800x800x2350mm 2100x800x2350mi				
(W×D×H)	47.24x31.50x92.52''	59.06x31.50x92.52''	70.87x31.50x92.52''	82,68x31,50x92,52''	94.49x31.50x92.52''	
Structure			AL. Profile			
Exterior			Phenolic laminat			
Interior/Baffle			Phenolic laminate			
Work Top		Chen	nical Resistant Phenolic lan	ninate		
Light	16W LED					
Sash Windows	Safety Glass 5.0T					
Sash Frame			P.P Made (Air/N2/Water)			
Cock & Valve		F	P.P MADE (AIR/N2/WATER)		
Exhaust Duct	200Ф Р.V.С Ріре	250Ф Р.	V.C Pipe	300Ф Р.	V.C Pipe	
Receptacle		1 Purc	hase type / Safety cover at	tached		
Switch			Rocker Type			
The Lower part Frame / Back Panel	Steel					
Control Pedestal	Ø45 Zinc Die Casted Adjuster					
Cat. No. 120V	HD1200UP120	HD1500UP120	HD1800UP120	HD2100UP120	HD2400UP120	
Cat. No. 230V	HD1200UP230	HD1500UP230	HD1800UP230	HD2100UP230	HD2400UP230	

Built-In Fan Motor



Model	SH-HDF-1200UP	SH-HDF-1500UP	SH-HDF-1800UP	SH-HDF-2100UP	SH-HDF-2400UP
Cat. No. 120V, 50 Hz	HDF1200UP120-50	HDF1500UP120-50	HDF1800UP120-50	HDF2100UP120-50	HDF2400UP120-50
Cat. No. 120V, 60 Hz	HDF1200UP120-60	HDF1500UP120-60	HDF1800UP120-60	HDF2100UP120-60	HDF2400UP120-60
Cat. No. 230V, 50 Hz	HDF1200UP230-50	HDF1500UP230-50	HDF1800UP230-50	HDF2100UP230-50	HDF2400UP230-50
Cat. No. 230V, 60 Hz	HDF1200UP230-60	HD1500UP230F-60	HDF1800UP230-60	HDF2100UP230-60	HDF2400UP230-60