CLEAN AIR SOLUTIONS













ANTECH | AIRTECH



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COMPANY PROFILE

Airtech Japan, Ltd. is a public stock listed company (Tokyo Stock Exchange No. 6291), engaging in the design, manufacture, and sale of clean air systems.

The company was founded on March 8, 1973 and is headquartered in Tokyo, Japan. Now Airtech has 15 domestic (in Japan) and 5 foreign firms (China, Singapore, Taiwan, Korea, India).

Airtech Japan Factory in Kazo, Japan

Its products include biological safety cabinets, laminar flow cabinets (clean benches), fan filter units, clean booths, clear partitions, pulse jet air showers, pressure dampers, and hand dryers.

For more than 40 years, Airtech has contributed to the development of electronics industry, bio industry, food industry, and pharmacy by inventive solutions for air containment, contamination control and controlled environments. We realize high-degree cleanliness space with our unique technologies. We provide a customer with adequate after-sales service.



AIRTECH R&D Center



DIRECTORY

Company Profile

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Biological Safety Cabinet

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Specification



Laminar Flow Cabinet

Desktop Type, VD/HD Series 19
Standard Type, SW-CJ Series 21
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Detached Type, VT/HT Series 25



AIRTECH Biosafety Cabinet

AIRTECH has developed a wide variety of biological safety cabinets designed to meet diverse applications in the life science, clinical, pharmaceutical and industrial laboratory.

In varying degrees, a laminar flow biological safety cabinet is designed to provide three basic types of protection:

- Personnel protection from harmful agents inside the cabinet.
- Product protection to avoid contamination of the work, experiment, or process.
- Environmental protection from contaminants contained within the cabinet.

AIRTECH produce class II type A2/B2 & class III biological safety cabinets. The products meet most of main standards, including NSF49 (USA), EN12469 (Europe), JIS K3800 (Japan) and SFDA (China).





EN 12469

World-class DC motor with automatic air volume compensation system;

Two independent sets of velocity sensors made in Japan & Austria

LED lamp providing sufficient and uniform lighting:

UV lamp running time can be set Interlocked LED lamp and UV lamp

Dwyer pressure gage, made in USA

Glass side wall for better illumination and more comfortable operation

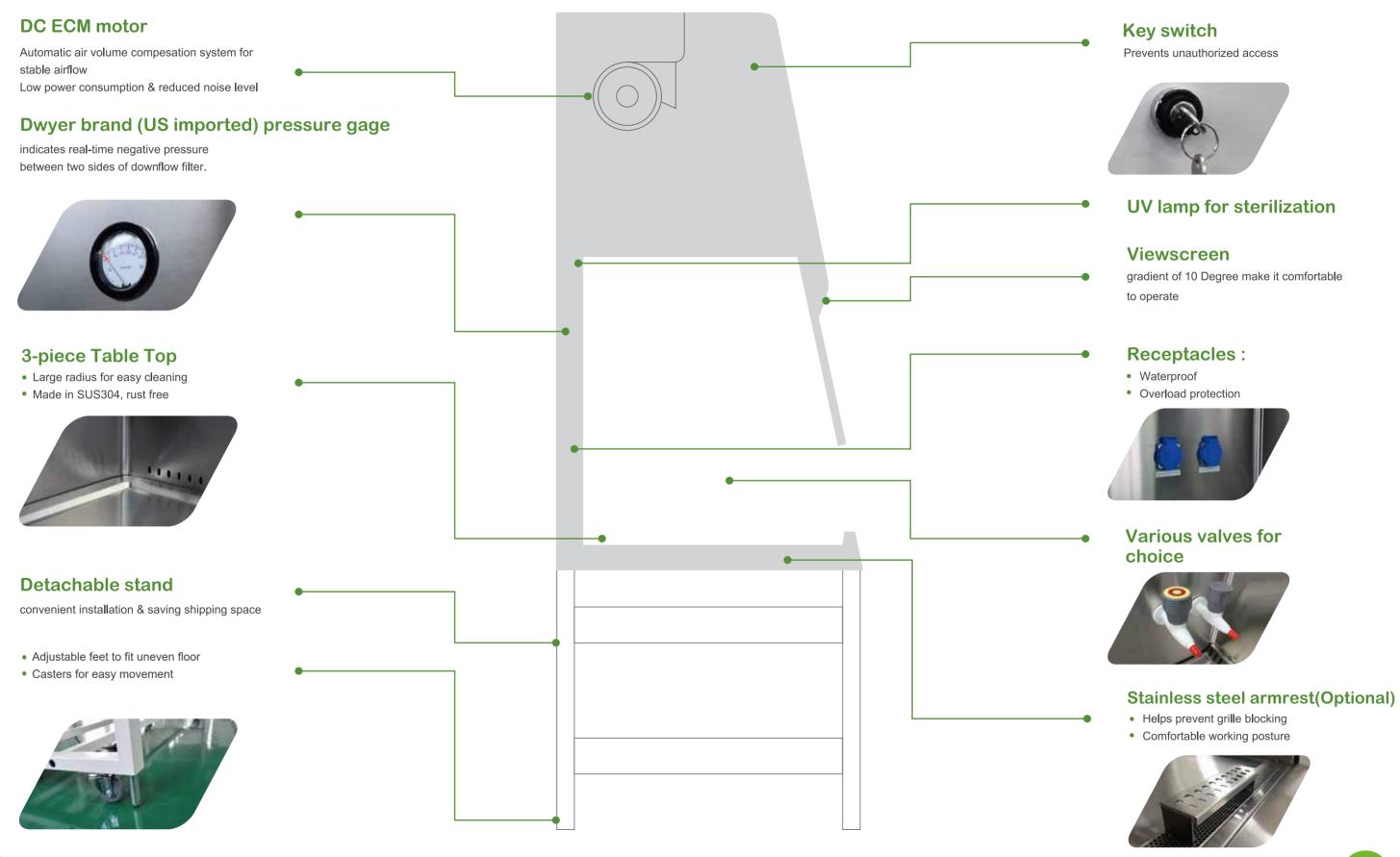
Access for water & gas tap, optional valves

Removable spill retaining work zone made in SUS304, 3-piece table top available.

Adjustable supporter to ensure cabinet is set firmly and horizontally



International Standards							
	Biosafety Cabinets	Air Quality	Filtration	Electrical Safety			
Standards□Compliance	EN 12469, Europe JIS K 3800, Japan SFDA YY0569, China	ISO 14644.1, Class 5, Worldwide JIS B9920, Class 5, Japan JIS BS5295, Class 5, Japan US Fed Std 209E, Class 100 USA	ISO29463, Worldwide EN-1822, Europe EN13091, Europe IEST-RP-CC034.1, USA	EN-61010-1, Europe IEC61010-1, Worldwide			

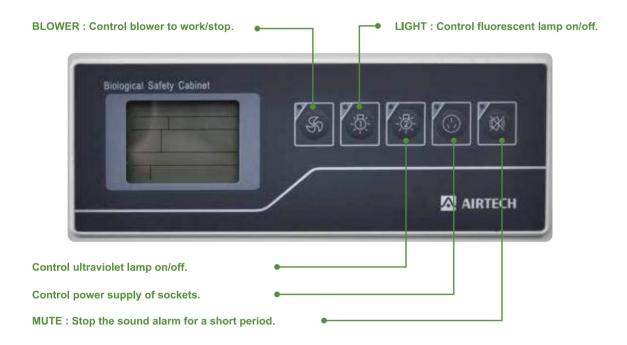


AIRTECH Intelligence Controlling system

Control Panel

The large control panel displays valuable safety and performance data, and is within easy view and reach from a seated position.

The intuitive interface delivers a constant read-out of downflow and inflow velocities and overall cabinet performance status.



HEPA Filter

- · HV brand filter, US imported
- HEPA filter, efficiency ≥99.995%@0.3µm micron
- Removable uniform-flow film to protect filter from liquor



Velocity Meter:

- SHIBAURA brand (Japan imported) velocity meter for down flow
- E+E brand (Austria imported) velocity meter for exhaust airflow



Various Alarms:

- Inflow velocity alarm
- · Exhausted airflow alarm
- · The slide shutter height alarm
- · Filter high-resistance alarm
- Fan failure alarm



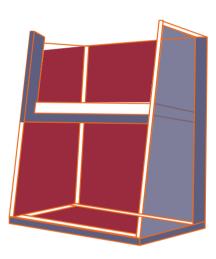
Non-compromising Safety

"Zero Leakage" Negative Pressure Protection

AIRTECH unique "Zero Leakage" patent technology, providing a dynamic negative pressure environment.

Imported automatic airflow compensation system to guarantee stable negative pressure

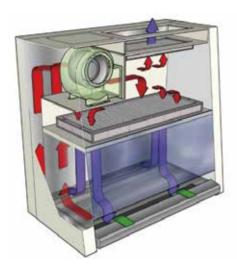
- Negative pressure
- Positive pressure





Airflow Pattern

Class II, Type A2



- H14-filtered air
- Unfiltered / potentially contaminated air
- Room air / Inflow air

Ambient air is pulled through front grille to create inflow, without going into the work surface. Inflow is joined by half of the downflow, to create front air curtain that is fine-tuned to create a large performance envelope. The combined air stream travels through the back air column towards the blower.

Approximately 30% of the air in the common plenum is exhausted through the HEPA filter to the room. The remaining 70% of the air is passed through the downflow HEPA filter and into the work area as a vertical laminar flow air to create ISO Class 4 work surface and prevents cross contamination.

Near the work surface, the downflow splits. About half goes to the front grille, and half goes to the rear grille. A small portion entersthe side capture zones to prevent dead air corners (small blue arrows).

The design was optimized to give large performance envelope, that provides operator and product protection at wide Inflow and downflow variation from the Nominal point.



Services Access & Validation



Taking advantage of front open design with cover supporter, all cabinet main components are easily accessible from the front to allow for rapid service and minimal work disruption:

- · Change of HEPA filters, LED lamps, UV lamps
- · Adjustment or change of circuit boards and sensors
- · Adjustment of alarms, fan speed control panel

Validation

Airtech offers professional services for all our equipment, including:

- · factory acceptance testing,
- · factory service training,
- · customized product design,
- · installation qualification
- · operational qualification
- calibration

Comprehensive Performance Testing At AIRTECH



Downflow velocity testing

Working chamber velocity is key parameter to guarantee performance & safety. Velocity is tested strictly for each unit during QC procedure in AIRTECH factory. Downflow velocity of each point is recorded in factory testing report.





Inflow velocity testing

Airtech adapt direct inflow measurement method to test inflow velocity. Air volume meter is put to the center of front opening of cabinet, seal open area on either side of capture hood portion of direct inflow measurement. Inflow velocity is calculated based on 5 readings of meter.

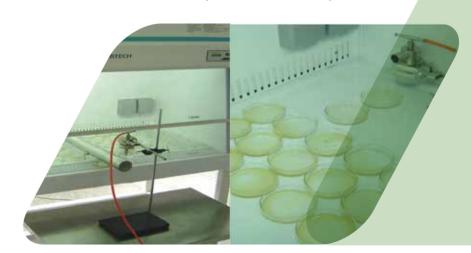


Filter Leakage Detection

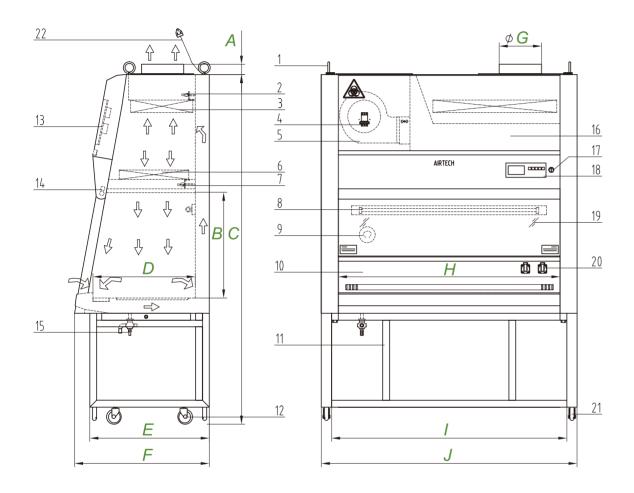
Using ATI brand (US imported) aerosol generator, able to scan passing rate of any point. Each AIRTECH cabinet is tested through the testing.



Biomedical verification (bacillus subtilis)



Class II Type A2 Biological Safety Cabinet Engineering Drawing



1. Eyebolt 2. Velocity sensor (Austria made, air exhaust)

5. Front cover

7. Velocity sensor (Japan made, air supply) 8. UV lamp

10. Work area

11. Detachable stand

13. Main power board16. Main body19. Sliding door

14. LED lamp17. Key switch20. Sockets

22. Power cord

4. DC motor fan

3.	HEPA	filter,	air	exhause

6. HEPA filter, air supply

9. Dwyer differential pressure gauge (US made)

12. Universal casters

15. Drain valve

18. Control panel

21. Adjustable feet

Certification

At AIRTECH, we know how important to design a product in compliance with current worldwide safety standards. The class II type A2 biological safety cabinet is certified as per CE, EN12469 and NSF49.









EN12469

AIRTECH Class II type A2 biological safety cabinets are independently tested and certified to EN12469 standard by TÜV Nord, a leading testing agency in Europe

Options for galss/sus304 side wall & electric/manual front sash

Model	BSC-1003IIA2 BSC-1303IIA2 BSC-1603IIA2	BSC-1003IIA2-E BSC-1303IIA2-E BSC-1603IIA2-E	BSC-1003IIA2-S BSC-1303IIA2-S BSC-1603IIA2-S	BSC-1003IIA2-SE BSC-1303IIA2-SE BSC-1603IIA2-SE
Side Wall	SUS304	SUS304	Glass	Glass
Front Sash	Manual	Electric Automatic	Manual	Electric Automatic

TECHNICAL SPECIFICATIONS

lodel		BSC-1003IIA2 (-E/-S/-SE)	BSC-1303IIA2 (-E/-S/-SE)	BSC-1603IIA2 (-E/-S/-SE)
	Nominal Size	3 feet	4 feet	5 feet
	Usable Working Area	0.582 m²	0.762 m²	0.942 m²
	Stand Height (mm)	770mm	770mm	770mm
Dimensions	Internal (W x D x H)	970*600*620 mm	1270*600*620 mm	1570*600*620 mm
Jillichalona	External (W x D x H)	1200*790*2050 mm	1500*790*2050 mm	1800*790*2050 mm
	Carton Packing (W x D x H)	1240*840*2250	1540*840*2250	1840*840*2250
	Plywoond Packing (W x D x H)	1300*900*2250	1600*900*2250	1900*900*2250
Type Exha		Class II, Type A2	Class II, Type A2	Class II, Type A2
	Exhaust Direction	Top Exhaust	Top Exhaust	Top Exhaust
	Airflow Pattern (downflow / exhaust)	70% / 30%	70% / 30%	70% / 30%
	Avarage Inflow Velocity	0.55m/s	0.55m/s	0.55m/s
	Averrage Downflow Velocity	0.35m/s	0.35m/s	0.35m/s
Airflow	Inflow Airflow Volume	385 m³/h	505 m³/h	625 m³/h
	Downflow Airflow Volume	720 m³/h	940 m³/h	1160 m³/h
	Exhaust Airflow Volume	385 m³/h	505 m³/h	625 m³/h
	Velocity Meter Accuracy	0.001m/s	0.001m/s	0.001m/s
	Pressure Gage	Dwyer Brand, USA	Dwyer Brand, USA	Dwyer Brand, USA
	Blower	Dwyer Brand, OSA	•	Dwyer Brand, OSA
	Work Zone		ECM DC Motor	
	Main Body		SUS304, Single-piece or 3-piece	
	-		Electro-galvanized steel with white oven-baked powder-coated finish	
Construction	Sash Glass Thickness	5mm	5mm	6mm
oonstruction	Sash Glass Type		Tempered Glass, UV-proof	
	Sash Window Working Opening	200mm	200mm	200mm
	Sash Window Maximum Opening	460mm	460mm	460mm
	Illumination (Lx)	≥1100	≥1100	≥1100
	Noise (dB)	≤60	≤60	≤60
	Cleanliness		HEPA: ISO Class 5	
	Filtration Efficiency		HEPA:≥99.995%,@0.3 μm	
Cleanliness	Total colony in impaction sampler(Operator Protection)	≤10CFU./Time	≤10CFU./Time	≤10CFU./Time
Oleanimess	Total colony in slit type sampler(Operator Protection)	≤5CFU./Time	≤5CFU./Time	≤5CFU./Time
	Total colony in culture dish (Product Protection)	≤5CFU./Time	≤5CFU./Time	≤5CFU./Time
	Total colony in culture dish (Cross Contamination)"	≤2CFU./Time	≤2CFU./Time	≤2CFU./Time
	Display	LCD Screen	LCD Screen	LCD Screen
Controller	UV Timer	Yes	Yes	Yes
Controller	Main Power Switch	Yes	Yes	Yes
	Key Switch	Yes	Yes	Yes
	Power Consumption (KW.h/h)	0.5	0.6	0.6
Electrical Data	Power (W)	500	650	650
	Electrical Current (A)	3	3.5	3.5
Davier Comple	AC220V,1Φ,50HZ	Yes	Yes	Yes
Power Supply	AC220V,1Ф,60HZ	Yes	Yes	Yes
	Net Weight(kg)	260	300	350
Weight	Gross Weight, Carton Packing (kg)	292	340	388
	Gross Weight, Plywood Packing (kg)	382	405	458
	Alarm Type	Sound+Flash	Sound+Flash	Sound+Flash
	Inflow Velocity	Yes	Yes	Yes
	Downflow Velocity	Yes	Yes	Yes
Alarm	Sash Height Limit	Yes	Yes	Yes
	Filter Blocked			
	Filter Shattured	Yes	Yes	Yes
	Filter Lifetime Remind	Yes	Yes	Yes
	Downflow	Yes	Yes	Yes
-:I4			HEPA:≥99.995%,@0.3 μm	
Filter	Exhaust		HEPA:≥99.995%,@0.3 μm	
	Mateiral	0.4.514(). 4.400)	HV Brand, USA	2011
	LED Lamp	24.5W, ≥1100Lx	31W, ≥1100Lx	36W, ≥1100Lx
	UV Lamp	20W*1	30W*1	40W*1
	Receptacle (pieces/Power/Current)	2 pcs/500W/3A	2 pcs/500W/3A	2 pcs/500W/3A
	Detachable Stand	Yes	Yes	Yes
			Yes	Yes
Accesories	Adjustable Foot	Yes	100	
Accessories		Yes Yes	Yes	Yes
Accessories	Adjustable Foot			
Accessories	Adjustable Foot Wheels	Yes	Yes	Yes
Accessories	Adjustable Foot Wheels Gas Valve	Yes Optional	Yes Optional	Yes Optional

Desk-top Laminar Flow Cabinet Vertical Type, VD Series



Features:

- Space-saving desk-top type with compact design
- SUS304 working area
- Adjustable fan unit & one-button velocity selection
- High efficiency & low power consumption





	Model	VD-650	VD-650-U	VD-1320	VD-1320-U
	Airflow Type	Vertical Airflow	Vertical Airflow	Vertica l Airflow	Vertica l Airflow
O a set most form	Side Wa ll Material	Float Glass	F l oat G l ass	Float Glass	Float Glass
Constructions	Working Zone Material	SUS304	SUS304	SUS304	SUS304
	Opertion side/Operator Number	Single-side/Single-operator	Single-side/Single-operator	Single-side/Single-operator	Single-side/Single-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
	Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Valocity (m/s)	≥0.3m/s(Adjustab l e)	≥0.3m/s(Adjustab l e)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Illumination (Lx)	≥300	≥300	≥300	≥300
Controller	Display	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	АС220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф
Electrical Date	Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	3	3	6	6
Weight	Net Weight (kg)	60	60	90	90
Dimensions	Working Dimension(W*D*H)(mm)	615*495*500	615*495*500	1240*480*550	1240*480*550
Difficusions	External Dimension(W*D*H)(mm)	650*535*835	650*535*835	1320*585*950	1320*585*950
	Lamp	LED, 7W*1	LED, 7W*1	LED, 7W*2	LED, 7W*2
Accessories	UV Lamp	N/A	As standard, 8W*1	N/A	As standard, 8W*2
	Socket	N/A	N/A	N/A	N/A

Desk-top Laminar Flow Cabinet Horizontal Type, HD Series



Features:

- Space-saving desk-top type with compact design
- Open type large air exhaust area for airflow uniformity
- SUS304 working area
- Adjustable fan unit & one-button velocity selection
- High efficiency & low power consumption





	Model	HD-650	HD-650-U	HD-1220	HD-1220-U
	Airflow Type	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow
	Side Wall Material	Float Glass	Float Glass	Float Glass	Float Glass
Constructions	Working Zone Material	SUS304	SUS304	SUS304	SUS304
	Opertion side/Operator Number	Single-side/Single-operator	Single-side/Single-operator	Single-side/Single-operator	Single-side/Single-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
	Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Valocity (m/s)	≥0.3m/s(Adjustab l e)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Illumination (Lx)	≥300	≥300	≥300	≥300
	Disp l ay	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	АС220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Φ
	Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	3	3	6	6
Weight	Net Weight (kg)	55	55	85	85
Dimensions	Working Dimension(W*D*H)(mm)	615*400*535	615*400*535	1120*490*575	1120*490*575
Dilliensions	External Dimension(W*D*H)(mm)	650*680*625	650*680*625	1220*650*920	1220*650*920
	Lamp	LED, 7W*1	LED, 7W*1	LED, 7W*2	LED, 7W*2
Accessories	UV Lamp	N/A	As standard, 1 pc, 8W	N/A	As standard, 8W*2
	Socket	N/A	N/A	N/A	N/A

Standard Laminar Flow Cabinet

Vertical Type, SW-CJ Series



- Main HEPA filter efficiency ≥99.99%(@0.3µm)
- · Per-filter to prolong lifetime of main filter
- Tempered glass window with Japan lifting system
- SUS304 working area for easy cleaning
- Adjustable fan unit & one-button velocity selection
- Inter-locking system for illuminating light & UV lamp
- Universal wheel & foot





	Model	SW-CJ-1F	SW-CJ-1FD	SW-CJ-2F	SW-CJ-2FD
	Airflow Type	Vertical Airflow	Vertical Airflow	Vertical Airflow	Vertical Airflow
	Side Wa ll Material	Coated Steel+Float Glass	Coated Steel+Float Glass	Coated Steel	Coated Steel
	Working Zone Material	SUS304	SUS304	SUS304	SUS304
Constructions	Max. Working Height (mm)	200	200	200	200
	Max. Opening Height (mm)	460	460	460	460
	Working Zone Height (mm)	780	780	780	780
	Opertion side/Operator Number	Double-side/Single-operator	Single-side/Single-operator	Double-side/Double-operator	Single-side/Double-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
Desferment	Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Va l ocity (m/s)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Illumination (Lx)	≥300	≥300	≥300	≥300
	Display	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ
	Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	5	5	6	6
Weight	Net Weight (kg)	130	130	170	170
Dimensions	Working Dimension(W*D*H)(mm)	870*690*520	870*690*520	1360*690*520	1360*690*520
Dilliensions	External Dimension(W*D*H)(mm)	1010*750*1600	1010*730*1600	1500*750*1600	1500*730*1600
	Caster	4,2 lockable	4,2 lockable	4,2 lockable	4,2 lockable
	Foot Supporter	N/A	N/A	N/A	N/A
Accessories	Lamp	LED, 7W*1	LED, 7W*1	LED, 7W*2	LED, 7W*2
	UV Lamp	N/A	As standard, 8W*1	N/A	As standard, 8W*2
	Socket	1/500W/3A	1/500W/3A	1/500W/3A	1/500W/3A
Certificate	CE	Yes	Yes	Yes	Yes

Standard Laminar Flow Cabinet Horizontal Type, SW-CJ Series



Features:

- Main HEPA filter efficiency ≥99.99%(@0.3µm)
- Per-filter to prolong lifetime of main filter
- SUS304 working area for easy cleaning
- Adjustable fan unit & one-button velocity selection
- Inter-locking system for illuminating light & UV lamp
- Universal wheel & foot





	Model	SW-CJ-1B	SW-CJ-1BU	SW-CJ-1C	SW-CJ-1CU
	Airflow Type	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow
	Side Wa ll Material	Float Glass	Float Glass	F l oat Glass	Float Glass
	Working Zone Material	SUS304	SUS304	SUS304	SUS304
Constructions	Max. Working Height (mm)	N/A	N/A	N/A	N/A
	Max. Opening Height (mm)	N/A	N/A	N/A	N/A
	Working Zone Height (mm)	750	750	750	750
	Opertion side/Operator Number	Single-side/Single-operator	Single-side/Single-operator	Single-side/Double-operator	Single-side/Double-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
D (Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Valocity (m/s)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Ill umination (Lx)	≥300	≥300	≥300	≥300
	Display	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ
	Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	5	5	6	6
Weight	Net Weight (kg)	100	100	160	160
Dimensions	Working Dimension(W*D*H)(mm)	820*480*600	820*480*600	1680*480*600	1680*480*600
Difficusions	External Dimension(W*D*H)(mm)	900*700*1450	900*700*1450	1760*700*1450	1760*700*1450
	Caster	4,2 lockable	4,2 lockable	4,2 lockable	4,2 lockable
	Foot Supporter	N/A	N/A	N/A	N/A
Accessories	Lamp	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 36W*1	Fluorescent Lamp, 36W*1
	UV Lamp	N/A	As standard, 1 pc, 20W	N/A	As standard, 1 pc, 40W
	Socket	1/500W/3A	1/500W/3A	1/500W/3A	1/500W/3A
Certificate	CE	Yes	Yes	Yes	Yes

Neoteric Laminar Flow Cabinet Vertical Type, VS Series



Features:

- Per-filter to prolong lifetime of main HEPA filter
- Tempered glass window with Japan lifting system
- SUS304 working area with curving front
- Adjustable fan unit & one-button velocity selection
- Inter-locking system for illuminating light & UV lamp
- Universal wheel & foot





	Model	VS-840K	VS-840K-U	VS-1300L	VS-1300L-U
	Airflow Type	Vertical Airflow	Vertical Airflow	Vertical Airflow	Vertical Airflow
	Side Wa ll Material	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
	Working Zone Material	SUS304	SUS304	SUS304	SUS304
Constructions	Max. Working Height (mm)	200	200	200	200
	Max. Opening Height (mm)	480	480	630	630
	Working Zone Height (mm)	770	770	770	770
	Opertion side/Operator Number	Single-side/Single-operator	Single-side/Single-operator	Single-side/Double-operator	Single-side/Double-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
. .	Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Valocity (m/s)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Illumination (Lx)	≥300	≥300	≥300	≥300
	Display	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ
	Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	5	5	6	6
Weight	Net Weight (kg)	145	145	200	200
Dimensions	Working Dimension(W*D*H)(mm)	680*650*570	680*650*570	1140*650*720	1140*650*720
Dillielisiolis	External Dimension(W*D*H)(mm)	840*825*1625	840*825*1625	1300*825*1175	1300*825*1175
	Caster	4,not lockable	4,not lockable	4,not lockable	4,not lockable
	Foot Supporter	Yes	Yes	Yes	Yes
Accessories	Lamp	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 30W*1	Fluorescent Lamp, 30W*1
	UV Lamp	N/A	As standard, 20W*1	N/A	As standard, 30W*1
	Socket	1/500W/3A	1/500W/3A	1/500W/3A	1/500W/3A
Certificate	CE	Yes	Yes	Yes	Yes

Neoteric Laminar Flow Cabinet Horizontal Type, HS Series



Features:

- Main HEPA filter efficiency ≥99.99%(@0.3µm)
- Per-filter to prolong lifetime of main filter
- SUS304 working area for easy cleaning
- Adjustable fan unit & one-button velocity selection
- Inter-locking system for illuminating light & UV lamp
- Universal wheel & foot





	Model	HS-840	HS-840-U	HS-1300	HS-1300-U
	Airflow Type	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow
	Side Wa ll Material	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
	Working Zone Material	SUS304	SUS304	SUS304	SUS304
Constructions	Max. Working Height (mm)	N/A	N/A	N/A	N/A
	Max. Opening Height (mm)	N/A	N/A	N/A	N/A
	Working Zone Height (mm)	770	770	770	770
	Opertion side/Operator Number	Single-side/Single-operator	Single-side/Single-operator	Single-side/Double-operator	Single-side/Double-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
	Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Valocity (m/s)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Illumination (Lx)	≥300	≥300	≥300	≥300
	Display	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф
	Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	5	5	6	6
Weight	Net Weight (kg)	125	125	170	170
Dimensions	Working Dimension(W*D*H)(mm)	720*650*570	720*650*570	1180*650*570	1180*650*570
Dimensions	External Dimension(W*D*H)(mm)	840*825*1430	840*825*1430	1300*825*1430	1300*825*1430
	Caster	4,not lockable	4, not lockable	4, not lockable	4, not lockable
	Foot Supporter	4	4	4	4
Accessories	Lamp	Fluorescent Lamp, 18W*2	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 30W*2	Fluorescent Lamp, 30W*1
	UV Lamp	N/A	As standard, 1 pc, 20W	N/A	As standard, 1 pc, 30W
	Socket	1/500W/3A	1/500W/3A	1/500W/3A	1/500W/3A
Certificate	CE	Yes	Yes	Yes	Yes

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Detached Laminar Flow Cabinet

Vertical Type, VT Series



Features:

- Detachable working table for easily moving samples
- HEPA filter efficiency ≥99.99%(@0.3µm)
- Per-filter to prolong lifetime of main filter
- Tempered glass window with Japan lifting system
- SUS304 working area for easy cleaning
- Adjustable fan unit & one-button velocity selection
- Inter-locking system for illuminating light & UV lamp





	Model	VT-840K	VT-840K-U	VT-1300L	VT-1300L-U
	Airflow Type	Vertical Airflow	Vertical Airflow	Vertical Airflow	Vertica l Airflow
	Side Wa ll Material	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
	Working Zone Material	SUS304	SUS304	SUS304	SUS304
Constructions	Max. Working Height (mm)	200	200	200	200
	Max. Opening Height (mm)	480	480	630	630
	Working Zone Height (mm)	770	770	770	770
	Opertion side/Operator Number	Single-side/Single-operator	Single-side/Single-operator	Single-side/Double-operator	Single-side/Double-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
	Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Valocity (m/s)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Illumination (Lx)	≥300	≥300	≥300	≥300
0 (Disp l ay	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ
EL (: 15 (Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	5	5	6	6
Weight	Net Weight (kg)	165	165	240	240
Dimensions	Working Dimension(W*D*H)(mm)	680*650*570	680*650*570	1140*650*720	1140*650*720
Dimensions	External Dimension(W*D*H)(mm)	840*825*1625	840*825*1625	1300*825*1775	1300*825*1775
	Caster	4,not lockable	4,not lockable	4,not lockable	4,not lockable
	Foot Supporter	Yes	Yes	Yes	Yes
Accessories	Lamp	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 30W*1	Fluorescent Lamp, 30W*1
	UV Lamp	N/A	As standard, 20W*1	N/A	As standard, 30W*1
	Socket	1/500W/3A	1/500W/3A	1/500W/3A	1/500W/3A

Detached Laminar Flow CabinetHorizontal Type, HD Series



Features:

- Detachable working table for easily moving samples
- HEPA filter efficiency ≥99.99%(@0.3µm)
- Per-filter to prolong lifetime of main filter
- SUS304 working area for easy cleaning
- Adjustable fan unit & one-button velocity selection
- Inter-locking system for illuminating light & UV lamp





	Model	HT-840	HT-840-U	HT-1300	HT-1300-U
	Airflow Type	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow	Horizontal Airflow
	Side Wall Material	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
	Working Zone Material	SUS304	SUS304	SUS304	SUS304
Constructions	Max. Working Height (mm)	N/A	N/A	N/A	N/A
	Max. Opening Height (mm)	N/A	N/A	N/A	N/A
	Working Zone Height (mm)	770	770	770	770
	Opertion side/Operator Number	Single-side/Single-operator	Single-side/Single-operator	Single-side/Double-operator	Single-side/Double-operator
	Cleanliness Class	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100	ISO Class 5, FED 209 E Class 100
	Filter Efficiency	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)	≥99.99%(@0.3µm)
Performance	Valocity (m/s)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)	≥0.3m/s(Adjustable)
	Illumination (Lx)	≥300	≥300	≥300	≥300
Oceteellee	Disp l ay	LED	LED	LED	LED
Controller	Power Switch	Yes	Yes	Yes	Yes
	Voltage/Frenquency (V/Hz)	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Ф	AC220V, 50HZ, 1Φ	AC220V, 50HZ, 1Φ
=	Power Consumption KW.h/h	0.3	0.3	0.6	0.6
Electrical Date	Power (W)	250	250	500	500
	Current (A)	5	5	6	6
Weight	Net Weight (kg)	150	150	190	190
Dimensions	Working Dimension(W*D*H)(mm)	680*650*570	680*650*570	1140*650*570	1140*650*570
Dimensions	External Dimension(W*D*H)(mm)	840*825*1430	840*825*1430	1300*825*1430	1300*825*1430
	Caster	4, not lockable	4, not lockable	4, not lockable	4, not lockable
	Foot Supporter	4	4	4	4
Accessories	Lamp	Fluorescent Lamp, 18W*2	Fluorescent Lamp, 18W*1	Fluorescent Lamp, 30W*2	Fluorescent Lamp, 30W*1
	UV Lamp	N/A	As standard, 1 pc, 20W	N/A	As standard, 1 pc, 30W
	Socket	1/500W/3A	1/500W/3A	1/500W/3A	1/500W/3A

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