

# Laminar Flow Cabinet

/ Laboratory and Processing Equipment





### /Laboratory and Processing Equipment

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Lab1st laminar flow cabinet provides a safe and contamination free environment for samples, equipments and any particle sensitive materials. It can be used in a multitude of settings like hospital, laboratories, pharmaceutical industry and so on.

An Ultra-Clean Work Zone

Laminar Flow Cabinet is a work bench which can filter out harmful particles in the air and create a laminar, unidirectional and sterile airflow in the work zone, which acts as an effective solution for samples, equipments and particle sensitive materials that require contaimnation free environment.

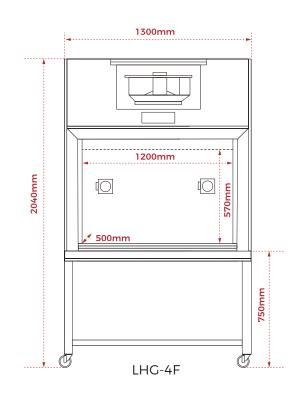
#### **Product Type**

According to the different direction air is blown in the cabinet, laminar flow cabinet can be classified into two types:

#### Horizontal Type and Vertical Type.



Lab1st supplies both types, and we also provide products that meet the ETL certification.





## Features

#### **Effective sample protection**

Every product is equipped with a HEPA filter with 99.995% efficiency at 0.3µm which offers a sterile and continuous airflow in the work zone.

#### Safety guarantee

Our product is equipped with waterproof socket as well as the audio and visual alarm system to fully ensure safety.

We endeavor to research, develop and produce high quality, user-friendly and cost-effective laminar flow cabinets to our customers.



The large side glass windows, footmaster casters, memory function, wind speed sensors and **LCD** display can highly facilitate your operation process.

#### Low noise level

The noise level is lower than 65dB.



Effective sample protection



Safety Juarantee



Easy to use

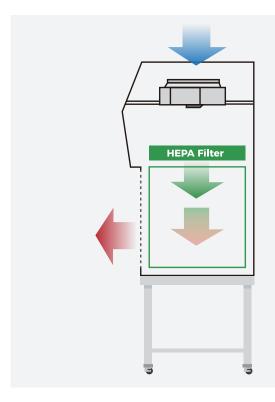


Low noise level





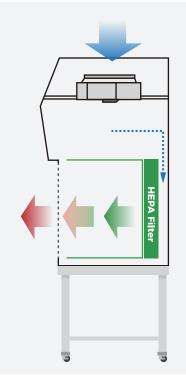
# Schematic Diagram



### Vertical type

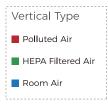
In a vertical laminar flow cabinet, the filter is at the top of the cabinet and the sterile air vertically passes through the work zone.





### Horizontal type

In a horizontal laminar flow cabinet, the filter is on the back of the cabinet and the filtered air horrizontally passes through the work zone.









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## **ETL Certified Horizontal Laminar Flow Cabinet**

Model	LHG-2F (ETL)	LHG-3F (ETL)	LHG-4F (ETL)
External Size (W×D×H)	800×810× (1720~ 1980)mm	1100×810× (1720~1980)mm	1300×810× (1720~1980)mm
	31.5"×31.9" (67.7"~77.9")	43.3"×31.9"× (67.7"~77.9")	51.2"×31.9"× (67.7"~77.9")
Internal Size (W×D×H)	700×500×600mm	1000×500×600mm	1200×500×600mm
Internal Size (W*D*H)	27.6"×19.7"×23.6"	39.4"×19.7"×23.6"	47.2"×19.7"×23.6"
Work Surface Height		750~1010mm (29.5"~39.8")	
Max Opening		440mm (17.3")	
Display		LCD Display	
Airflow Velocity		80~99fpm	
		Working area: 304 stainless steel.	
Material	Main Body: 1.0 mm cold-rolled steel with anti-bacteria powder coating.		
	Front Window: 5 mm toughened glass, anti-UV.		
Pre-Filter	Polyester fiber		
HEPA Filter	One, 99.995% efficiency at 0.3µm		
Noise	≤68dB(A)		
Illumination	≥300lx		
Waterproof Sockets	One socket (double type), America standard, Max Power: 500W		
Power Supply			
Consumption	750W	950W	950W
LED Lamp	10W×1	14W×1	14W×1
Standard Accessory	Manually height adjustable base stand, LED lamp, wind speed sensor,		
Standard Accessory	waterproof socket, Stainless Steel I.V, Bar with 10 hooks		
Optional Accessory	UV lamp		
	940×1090×1250mm	1240×1090×1250mm	1440×1090×1250mm
Package Size (W×D×H)	37.0"×42.9"×49.2"	48.8"×42.9"×49.2"	56.7"×42.9"×49.2"
Gross Weight	150Kg	190Kg	225Kg

Model	LHG-5F (ETL)	LHG-6F (ETL)		
External Size (W×D×H)	1500×810× (1720~1980)mm	1800×810× (1720~1980)mm		
	59.1"×31.9"× (67.7"~77.9")mm	70.9"×31.9"× (67.7"~77.9")		
Internal Size (W×D×H)	1400×500×600mm	1700×500×600mm		
	55.1"×19.7"×23.6"	66.9"×19.7"×23.6"		
Work Surface Height	750~1010mr	n (29.5"~39.8")		
Max Opening	440mr	n (17.3")		
Display	LCD [	Display		
Airflow Velocity	80~9	9fpm		
	Working area: 3	04 stainless steel.		
Material	Main Body: 1.0 mm cold-rolled stee	Main Body: 1.0 mm cold-rolled steel with anti-bacteria powder coating.		
	Front Window: 5 mm toughened glass, anti-UV.			
Pre-Filter	Polyester fiber			
HEPA Filter	One, 99.995% efficiency at 0.3µm			
Noise	≤68dB(A)			
Illumination	≥3(	≥300lx		
Waterproof Sockets	One socket (double type), America standard, Max Power: 500W			
Power Supply	103.5~126.5	103.5~126.5V, 60Hz, 10A		
Consumption	950W	1150W		
LED Lamp	18W×1	22W×1		
Standard Accessory	Manually height adjustable base stand, LED lamp, wind speed sensor,			
Standard Accessory	waterproof socket, Stainless Steel I.V, Bar with 10 hooks			
Optional Accessory	UV lamp			
Package Size (W×D×H)	1640×1090×1250mm	1940×1090×1250mm		
Fackage Size (VV*D*H)	64.6"×42.9"×49.2"	76.4"×42.9"×49.2"		
Gross Weight	265Kg	300Kg		

## Horizontal Laminar Flow Cabinet

Model	LHC-4F	LHC-6F	
External Size (W×D×H)	1300×820×2040mm	1800×820×2070mm	
	51.2"×32.3"×80.3"	70.9"×32.3"×81.5"	
Internal Size (W×D×H)	1200×500×570mm	1700×500×570mm	
	47.2"×19.7"×22.4"	66.9"×19.7"×22.4"	
Work Surface Height	750mm	n (29.5")	
Display	LCD D	Display	
Airflow Velocity	Average of	0.3~0.5m/s	
	Main Body: cold-rolled steel wit	h anti-bacteria powder coating	
Material	Work Table: 304	4 stainless steel	
	Side and front Window: 5m	m toughened glass, anti-UV	
Pre-Filter	Polyester fib	er, washable	
HEPA Filter	99.995% efficiency at 0.3µm		
Noise	<65dB		
Front Window	Motorized		
Max Opening	430mn	n(16.9")	
LED Lamp	12W×1 16W×2		
	30W×1	30W×1	
UV Lamp	Emission of 253.7 nanometers		
Consumption	400W	500W	
Waterproof Socket	Two, total lo	oad≤500W	
Caster	Universal caster	with leveling feet	
Power Supply	AC220V±10%, 50/60HZ; 110V±10%, 60Hz		
Standard Accessory	LED lamp, UV lamp×2, Base stand, Gas Tap, Waterproof socket×2		
	Water tap(only for LHG-6F)		
Optional Accessory	Electric height adjustable base stand		
Gross Weight	254Kg	328Kg	
	1450×1060×1650mm	1950×1060×1600mm	
Package Size(W×D×H)	57.1"×41.7"×65.0"	76.8"×41.7"×63.0"	

## **Horizontal Laminar Flow Cabinet**

Model	LHG-3FS	LHG-5FS	LHG-6FS
External Size (W×D×H)	1100×808×1690mm	1500×808×1690mm	1800×808×1890mm
	43.3"×31.8"×66.5"	59.1"×31.8"×66.5"	70.9"×31.8"×77.4"
Internal Size (W×D×H)	1000×500×600mm	1400×500×600mm	1700×500×800mm
	39.4"×19.7"×23.6"	55.1"×19.7"×23.6"	66.9"×19.7"×31.5"
Work Surface Height		750mm (29.5")	
Display		LCD Display	
Airflow Velocity		Average of 0.30~0.45m/s	
	Main Body: Col	ld-rolled steel with anti-bacteria p	owder coating
Material		Work Table: 304 stainless steel	
	Side Windows: 8mm toughened glass, anti-UV		
Pre-Filter	Polyester fiber, washable		
HEPA Filter	99.995% efficiency at 0.3µm		
Noise	≤65dB(A)		
LED Lamp	12W×1 16W×1 16W×2		16W×2
UV Lamp	20W×1 30W×1 20W×2		
	Emission of 253.7 nanometers		
Consumption	200W 300W 400W		400W
Waterproof Socket	Two, total load≤500W		
Caster	Universal caster with leveling feet		
Power Supply	AC220V±10%, 50/60HZ; 110V±10%, 60Hz		
Standard Accessory	LED lamp, UV lamp×2, Base stand, Waterproof socket×2, Hook×10		
Optional Accessory	Electric height adjustable base stand		
Gross Weight	175Kg	216Kg	255Kg
	1250×1050×1350mm	1650×1050×1350mm	1950×1050×1550mm
Package Size (W×D×H)	49.2"×41.3"×53.1"	65.0"×41.3"×53.1"	76.8"×41.3"×61.0"

## **ETL Certified Vertical Laminar Flow Cabinet**

Model	LVG-2FS (ETL)	LVG-3FS (ETL)	LVG-4FS (ETL)
External Size (W×D×H)	800×700× (2090~2340)mm	1100×700× (2090~2340)mm	1300×700× (2090-2340)mm
	31.5"×27.6"× (82.3"~92.1")	43.3'''×27.6"× (82.3''~92.1")	51.2"×27.6"× (82.3"~92.1")
Internal Size (W×D×H)	700×575×625mm	1000×575×625mm	1200×575×625mm
	27.6"×22.6"×24.6"	39.4"×22.6"×24.6"	47.2"×22.6"×24.6"
Work Surface Height		750~1010mm (29.5"~39.8")	
Max Opening		480mm (18.9")	
Display		LCD Display	
Airflow Velocity		80~99fpm	
	Working area: 304 stainless steel		
Material	Main Body: 1.2mm	Cold-rolled steel with anti-bacter	ria powder coating.
	Front Windo	ow: Motorized, 5mm toughened g	Ilass, anti-UV
Pre-Filter	Polyester fiber		
HEPA Filter	One, 99.995% efficiency at 0.3µm		
Noise	≤68dB(A)		
Illumination	≥300lx		
Waterproof Sockets	One socket (Double type), America standard. Max.Power: 500W		
Power Supply	110V±10% 60HZ		
Consumption	750W	950W	950W
UV Lamp	18W×1	30W×1	30W×1
LED Lamp	10W×1	14W×1	14W×1
Standard Accessory	Manually height adjustable base stand, LED lamp, UV lamp, wind speed sensor, waterproof socket		
	940×970×1560mm	1240×970×1560mm	1440×970×1560mm
Package Size (W×D×H)	37.0"×38.1"×61.4"	48.8"×38.1"×61.4"	56.7"×38.1"×61.4"
Gross Weight	190Kg	230Kg	265Kg

Model	LVG-5FS (ETL)	LVG-6FS (ETL)	
External Size (W×D×H)	1500×700× (2090~2340)mm	1800×700× (2090~2340)mm	
	59.1""×27.6"× (82.3"~92.1")	70.9'''×27.6''× (82.3''~92.1'')	
Internal Size (W×D×H)	1400×575×625mm	1700×575×625mm	
	55.1"×22.6"×24.6"	66.9"×22.6"×24.6"	
Work Surface Height	750~1010mr	n (29.5"~39.8")	
Max Opening	480mn	n (18.9")	
Display	LCD [	Display	
Airflow Velocity	80~9	9fpm	
	Working area: 3	04stainless Steel	
Material	Main Body: 1.2mm Cold-rolled steel with anti-bacteria powder coating.		
	Front Window: Motorized, 5mm toughened glass, anti-UV		
Pre-Filter	Polyester fiber		
HEPA Filter	One, 99.995% efficiency at 0.3µm		
Noise	≤68dB(A)		
Illumination	≥300lx		
Waterproof Sockets	One socket (Double type), America standard. Max.Power: 500W		
Power Supply	110V±10% 60HZ		
Consumption	950W	1150W	
UV Lamp	40W×1	40W×1	
LED Lamp	18W×1	22W×1	
Standard Accessory	Manually height adjustable base stand, LED lamp, UV lamp, wind speed sensor, waterproof socket		
	1640×970×1560mm	1940×970×1560mm	
Package Size (W×D×H)	64.6"×38.1"×61.4"	76.4"×38.1"×61.4"	
Gross Weight	280Kg	320Kg	

## **Vertical Laminar Flow Cabinet**

Model	LVG-4F	LVG-6F	
External Size (W×D×H)	1300×750×2040mm	1800×750×2040mm	
	51.2"×29.5"×80.3"	70.9"×29.5"×80.3"	
Internal Size (MuDull)	1200×645×610mm	1700×645×610mm	
Internal Size (W×D×H)	47.2"×25.4"×24.0"	66.9"×25.4"×24.0"	
Work Surface Height	750mm	(29.5")	
Display	LCD D	isplay	
Airflow Velocity	Average of	0.3-0.5m/s	
	Main Body: Cold-rolled steel wit	h anti-bacteria powder coating	
Material	Work Table: 304	a stainless steel	
	Side and Front Windows: 5mm toughened glass anti-UV		
Pre-Filter	Polyester fiber, washable		
HEPA Filter	99.995% efficiency at 0.3µm		
Noise	<65dB		
Front Window	Motorized		
Max Opening	430mm (16.9")		
LED Lamp	12W×1 16W×1		
	30W×1	40W×1	
UV Lamp	Emission of 253.7 nanometers		
Consumption	400W	450W	
Waterproof Socket	Two, total load≤500W		
Caster	Universal caster v	vith leveling feet	
Power Supply	AC220V±10%, 50/60HZ; 110V±10%, 60Hz		
Standard Accessory	LED lamp, UV lamp×2, Base stand, Gas Tap, Waterproof socket×2		
Optional Accessory	Electric height adjustable base stand		
Gross Weight	228Kg	306Kg	
	1460×1070×1650mm	1960×970×1600mm	
Package Size (W×D×H)	57.5"×42.1"×65.0"	77.2"×38.2"×63.0"	

## **Vertical Laminar Flow Cabinet**

Model	LVG-2F	LVG-2.5F
External Size (W×D×H)	680×410×1160mm	802×650×1550mm
	26.8"×16.1"×45.7"	31.6"×25.6"×61.0"
	630×375×615mm	800×530×540mm
Internal Size (W×D×H)	24.8"×14.8"×24.2"	31.5"×20.9"×21.3"
Work Surface Height	/	660mm (26.0")
Display	LED D	Display
Airflow Velocity	Average of 0.3~0.5m/s	s, air speed adjustable
Matarial	Main Body: Cold-rolled steel w	ith anti-bacteria power coating
Material	Work Table: 304 stainless s	teel (except model LVG-2F)
Pre-Filter	Polyester fib	er, washable
HEPA Filter	99.995% effici	ency at 0.3 µm
Noise	<65	5dB
Front Window	/	Manual
	/	5mm toughened glass, anti-UV
Max Opening	/	490mm (19.3")
Illuminating Lamp	Fluorescent lamp	LED lamp
	8W×1	8W×1
UV Lamp	15W×1	20W×1
	Emission of 253.7 nanometers	
Consumption	160W	350W
	Fluorescent lamp	LED lamp
Standard Accessory	UV lamp×2	UV lamp×2
	Water & gas tap	Base stand
Optional Accessory	/	Electric height adjustable base stand
Caster	/	Universal wheel with leveling feet
Power Supply	AC220V±10%, 50/60HZ; 110V±10%, 60Hz	
Gross Weight	50Kg	116Kg
	840×560×1380mm	960×800×1800mm
Package Size (W×D×H)	33.1"×22.0"×54.3"	37.8"×31.5"×70.9"

Model	LVG-3F	LVG-4.5F		
External Size (W×D×H)	1060×620×1850mm	1460×620×1850mm		
	41.7"×24.4×72.8"	57.5"×24.4"×72.8"		
	935×530×650mm	1335×530×650mm		
Internal Size (W×D×H)	36.8"×20.9"×25.6"	52.6×20.9"×25.6"		
Work Surface Height	750mm (29.5")	750mm (29.5")		
Display	LCD E	Display		
Airflow Velocity	Average of 0.3~0.45m/	/s, air speed adjustable		
Material	Main Body: Cold-rolled steel w	ith anti-bacteria power coating		
Material	Work Table: 304 stainless s	teel (except model LVG-2F)		
Pre-Filter	Polyester fib	er, washable		
HEPA Filter	99.995% effici	ency at 0.3 µm		
Noise	<65	5dB		
Front Window	Manual			
	5mm toughene	5mm toughened glass, anti-UV		
Max Opening	400mm (15.7")	400mm (15.7")		
	LED lamp	LED lamp		
Illuminating Lamp	12W×1	16W×1		
UV Lamp	20W×1	40W×1		
	Emission of 253.7 nanometers			
Consumption	150W	250W		
	LED lamp	LED lamp		
Standard Accessory	UV lamp×2	UV lamp×2		
	Base stand	Base stand		
Optional Accessory	Electric height adjustable base stand			
Caster	Universal wheel with leveling feet			
Power Supply	AC220V±10%, 50/60HZ; 110V±10%, 60Hz			
Gross Weight	185Kg	231Kg		
	1240×900×1350mm	1640×900×1350mm		
Package Size (W×D×H)	48.8"×35.4"×53.1"	64.6"×35.4"×53.1"		

## Vertical Laminar Flow Cabinet---Double Sides Type

Model	LVS-3F (Dou)	LVS-4F (Dou)	
External Size (W×D×H)	1040×660×1770mm	1440×660×1770mm	
	40.9"×26.0"×69.7"	56.7"×26.0"×69.7"	
Internal Size (W×D×H)	940×560×545mm	1340×560×545mm	
	37.0"×22.0"×21.5"	528×22.0"×21.5"	
Work Surface Height	750m	m (29.5")	
Display	LED	Display	
Airflow Velocity	Average c	of 0.3~0.5m/s	
	Main Body: Cold-rolled steel w	/ith anti-bacteria powder coating	
Material	Work Table: 3	04 stainless steel	
Pre-Filter	Polyester fiber, washable		
HEPA Filter	99.995% efficiency at 0.3µm		
Noise	<65dB		
Front Window	Manual, 5mm toughened glass, anti-UV		
Max Opening	310mm (12.2")		
	20W×1	30W×1	
UV Lamp	Emission of 253.7 nanometers		
LED Lamp	12W×1	16W×1	
Consumption	350W	600W	
Caster	Universal caster with leveling feet		
Power Supply	AC220V±10%, 50/60HZ; 110V±10%, 60Hz		
Standard Accessory	LED lamp, UV lamp×2, Base stand		
Optional Accessory	Electric height adjustable base stand		
Gross Weight	150Kg	186Kg	
	1190×890×1340mm	1590×890×1340mm	
Package Size (W×D×H)	46.9"×35.0"×52.8"	62.6"×35.0"×52.8"	