

# Infitek

## FUME HOODS



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# Ductless Fume Hood, FMH Series

FMH-800 FMH-1000 FMH-1300 FMH-1600 FMH-1600A



## Description

- ◆ Ductless fume hood is known as the "green" solution to Modern Chemistry, offers excellent containment and ergonomic features at a great value, which is a viable alternative to conventional fume hoods.
- ◆ This compact-sized and simplified ductless fume hood is complete with internal lighting, worktop, and microprocessor control system.
- ◆ It also features a double-hinged sash with arm ports that provides good working flexibility and high containment levels.
- ◆ This cabinet is equipped with organic chemical filters which removes chemical vapors from the work zone. Also, it has multiple models, configurations, and filter options to suit user's application.



## Specifications

Model	FMH-800	FMH-1000	FMH-1300	FMH-1600	FMH-1600A
External Dimension	800*620*1245mm	1000*620*1245mm	1275*620*1245mm	1600*620*1245mm	1600*790*1245mm
Internal Dimension	781*574*934mm	981*574*934mm	1256*574*934mm	1581*574*934mm	1581*744*934mm
Air Capacity	230 m <sup>3</sup> /h		690 m <sup>3</sup> /h		
Face velocity	0.4-0.6 m/s				
Voltage	110V-240V				
Frequency	50-60Hz				
Power	42W		126W		
Rated currents	2A			5A	
Sound Emission	40-52 dBA				
Operation hole	Trapezoid				
<b>Configure (customized)</b>					
Filters(pcs)	2				
Pre-filters(pcs)	1				
Fans(pc)	1		3		
LED Lamp(pc)	1				
Display screen	7 inch LCD touch screen				
Worktable	Epoxy resin board				
Power cord(pc)	1				
Control system(unit)	1				
Alarm System	VOC alarm, temperature and humidity alarm				

## Optional

Base cabinet  
Stainless steel table-board  
Anemometer  
UV lamp  
Water tap

Water sink

### Optional alarm:

Ammonia alarm  
Formaldehyde alarm  
HCL alarm

### Filter Model:

SFGL OG: Organic filter  
SFGL AG: Inorganic filter  
SFGL FO: Formaldehyde filter  
SFGL AM: Ammonia filter  
SFGLH14: HEPA filter

## Description



Unique designed LED touch screen control system, which combine all data in one piece computer control panel, easy to control fan speed and lighting, etc and convenient to set up and monitor all data.

Lighting system are controlled by control panel.

Advanced VOC Detector port detects pollution in time, with special alarm system.



Silent turbine fan draws chemical vapors from bottles into a HEPA filter with high absorption capacity.

No static, no spark and super silence motor.

Various type filters to realize 99.99% high efficiency filtering.



LED lighting power equivalent to 25W fluorescent lamp, no heat, safety, and does not affect the experimental environment temperature, energy saving, environmental protection, long life.



Transparent acrylic glass >6mm thickness with good anti-corrosive performance.

Two operation holes, reverse sash window design, easy to access.

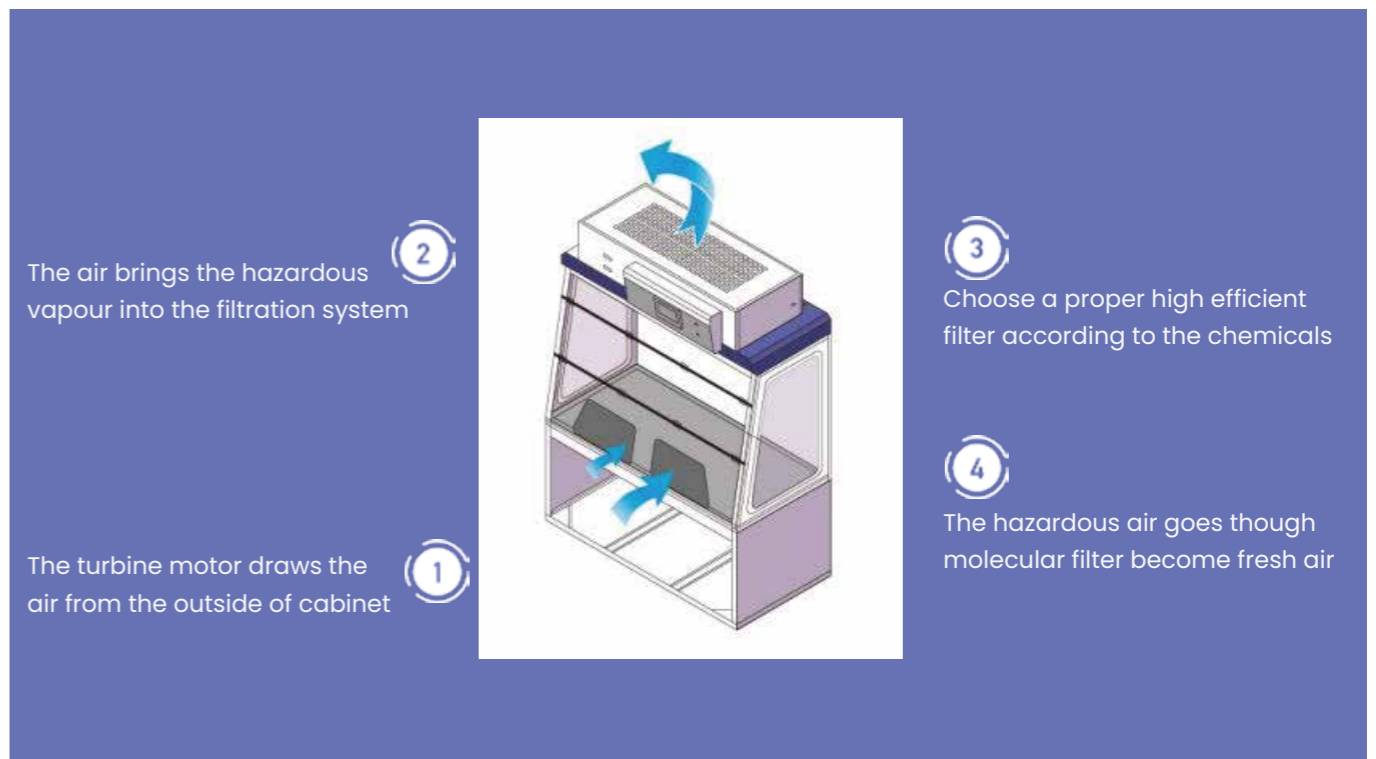
Epoxy resin countertops have excellent chemical stability, super corrosion resistance, good impact resistance without damage, excellent high temperature resistance, one-piece transparent core, long service life, no delamination, no expansion, no cracking.



The main material is ≥1.2mm galvanized steel plate, electrostatically sprayed with epoxy resin, and covered with a durable chemical-resistant lead-free coating to maintain a high finish and minimize the impact of corrosion and moisture.

## Features

- ◆ Ductless design, easy installation, environmental protection.
- ◆ Double-hinged sash mechanism with arm ports.
- ◆ Optional filter module system, according to a variety of experimental needs.
- ◆ Advanced modular filtering technology to fully absorb toxic vapors, particles and dust.
- ◆ Easy to move, easy to operate, high efficiency work.



# Fume Extraction Hood

## FMH-M

### Features

1. Metal parts: the main material  $\geq 1.2\text{mm}$  galvanized steel, epoxy resin electrostatic spraying, covered with a durable anti-chemical lead-free coating to maintain a high degree of finish and minimize the impact of corrosion and moisture.
2. 5-inch LCD touch screen display: real-time temperature and humidity environment monitoring, fan monitoring, VOC concentration environment monitoring and integrated alarm system.
3. PSC fan imported from U.S.: 24-volt current, stable performance, ultra-quiet, no spark static electricity.
4. High-efficiency filtration system: according to the particle size selection arrangement distribution, follow the ASTM standard, effective for acidic gases and organic gases, strong adsorption capacity, for particle filter, the use of high-efficiency HEPA filters, for particles larger than  $0.3\mu\text{m}$ , the filtration efficiency of 99.995%.
5. Interface: anti-electromagnetic interference power cord.
6. Filter optional models: OG type filtration of organic gases, AG type filtration of acid gases, HEPA H14 filtration of dust and particles.

### Specifications

Model	FMH-M
Size	H700*W460*D460 mm
Air handling capacity	230 m <sup>3</sup> /h
Power	30W
Current	1.2A
Noise	$\leq 50$ dBA
Voltage/Frequency	220V/50Hz
Outside arm	flexible section type arm - from the hood to the air inlet (tube arm can be moved)
Interface inner diameter	90mm
Use of ambient temperature	$-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$
Bottom rollers	a total of four, two locking universal wheels



### Product Overview

For many chemical laboratories, there are more or less trace chemical leakage and poor ventilation, which directly leads to the laboratory odour and VOC concentration is too high, at this time, such as in the indoor volatile sources equipped with a portable fume extractor, will greatly improve the indoor environment, restore clean air in the laboratory, to protect the physical and mental safety of chemical laboratory workers.

### Functions

All volatile sources with localized volatility, such as chemical handling, volatilization during instrumentation, soldering etc. Dissolving, mixing, stirring, pipetting, sampling, PH testing, HPLC, GC-MS, LC-MS ..... filters have strong adsorption capacity for organic solvents, acids and bases, fragrances, pesticides and so on.

### Working Principle

The extractor has its own fan and filter, the fan will be volatile source of wind through the suction hood and pipeline into the box filter device, after filtering the clean air is discharged directly into the room.

# Fume Hood

FMH-P1200A

FMH-P1500A

FMH-P1800A



## Description

PP Fume Hoods are mainly used in clean rooms with relatively high environmental requirements. Compared with all-steel fume hoods, PP materials have excellent acid resistance. Excellent acid and alkali resistance can be used in higher-intensity acid and alkali experiments. It can be used in high-intensity acid and alkali experiments, clean rooms and other high-end places.

## Features

### Countertop

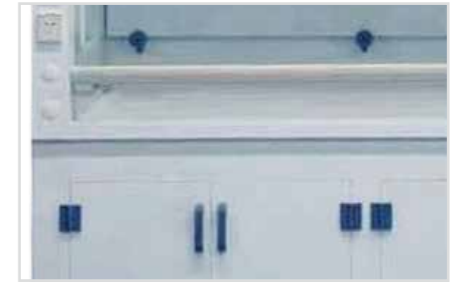
The same thickness as the cabinet, made of 8mm acid and alkali-resistant and corrosion-resistant PP board.

### Lower cabinet

The four corners are designed with "square tube structure" and "T" type structure, which has good load-bearing capacity.

### Material

The upper and lower cabinets are all made of high-quality A-grade PP (polypropylene) board (porcelain white) that is resistant to strong acids and alkalis, chemicals, and impacts. The main body is 8mm thick, and the same color and quality welding rods are used for welding and modification. There are no sharp corners on the surface. The overall structure is resistant to strong acids, chemicals, impact, and corrosion.



## Specifications

Model	FMH-P1200A	FMH-P1500A	FMH-P1800A
External Dimension (mm)	1200*850*2350	1500*850*2350	1800*850*2350
Internal Dimension (mm)	990*600*1100	1290*600*1100	1590*600*1100
Window Opening Height (mm)	700		
Exhaust Volume (m <sup>3</sup> /h)	1300	1500	1800
Exhaust Diameter (mm)	φ250		
Surface Velocity (m/s)	0.3~0.5		
LED Lamp	30W *1pc		
Sound Emission (dB)	Less than 65		
Power Input Voltage	AC 220V, 50/60Hz		
Current and Power of Power Socket	10A, 2200W		
Net Weight (kg)	About 250	About 300	About 350
Standard Accessories	Main cabinet, Base cabinet, Gas collection hood, φ250 axial flow fan, PP countertop, LED lamp, Socket, 3-meter hose and 6 clamps		
Optional Accessories	Water accessories: PP water cup, PP sink, single-mouth faucet, three-mouth faucet, Gas valve, Gas nozzle, Water valve, Water nozzle; Countertop: 12.7mm solid physical and chemical board, 16mm epoxy resin, 20mm ceramic; 5mm HPL lining, 5mm ceramic fiber lining; Fan: φ315 Axial flow fan; Pipe		

## Features



### Lining

Acid-resistant, alkali-resistant and corrosion-resistant PP board is used as the lining material, and the internal three-stage exhaust design ensures that harmful gases with different specific gravity generated during different experiments are completely discharged. The installation size is scientific and reasonable, with no airflow dead corners, to obtain the maximum exhaust gas capture performance.



### Air collection hood

The fume hood adopts a top-hood exhaust design, with an exhaust port of 250/315mm in diameter according to site requirements. It is made of PP acid and alkali resistant material and is equipped with a confluence trough to collect condensed water (customers can connect a short transparent hose according to the situation).



### Adjustable door track

C-shaped inclusive design to minimize friction.

### Adjustable door frame

White PP board is milled into square grooves, and combined with the glass by four-sided clamping and embedding.

### Adjustable door

PP silent pulley, galvanized square tube, square tube sleeve with anti-corrosion pipe sleeve to prevent corrosion in acid and alkali laboratory, PU polyurethane widened synchronous belt.



### Window

The tempered glass window has stepless balanced lifting, and its counterweight can stay at any position. The window handle is made of special PVC material, with a user-friendly design and easy operation.



### Lighting

Equipped with 30W anti-corrosion lighting set, waterproof, dustproof, impact-resistant, lamp with cover, no direct contact with experimental gas, easy to replace.

### Socket

Dust-proof, splash-proof safety socket with protective cover.

### Control panel

can control the switch of lighting, fan and air valve. Designed on the outer panel, it adopts touch-type intelligent circuit board, which is convenient for observation, operation and control.



### Counterweight

adopts counterweight box design and is covered with PP.

### Handle and hinge

Made of PP injection molding, not easy to corrode, available in blue, white and gray.

### 250/315 axial flow fan

Equip the corresponding fan according to the required air volume. The shell is made of PP material, part of which is metal, and a 1-meter wire and outlet plug are reserved.



# Fume Hood

FMH-D3F FMH-D4F FMH-D5F FMH-D6F

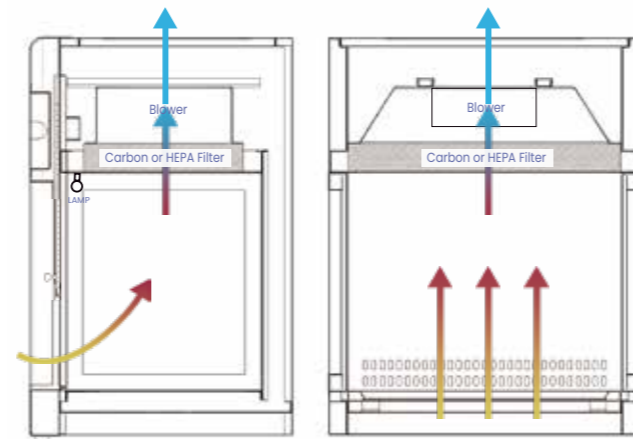


## Description

FMH series fume hood is a kind of negative pressure ventilation system for protecting operator and laboratory, utilizes carbon filtration to protect laboratory personnel from toxic chemical fumes, odors, and particles. Known for its plug-and-play feature and mobility, fume hood guarantees a hassle-free installation and no lab work interruption.

## Humanized Features

- Ergonomic Control Panel Location, centered and angled down for an easy reach & viewing.
- Made of solid psychological board, resistant to strong acid and alkali
- The non-direct light source design can effectively relieve the operator's visual fatigue under the condition of ensuring the illumination
- Intuitive and easy-to-use microprocessor controller with LCD display, graphical and digital display of the operating status of each function, such as filter life, UV life etc.



## Convenience Features

- Memory function in case of power-failure.
- Filter and UV life indicators facilitate a timely replacement plan.
- Two side glass windows installed for easy experiment observation.
- Equipped with temperature sensor to show the real temperature during operation.
- Waterproof socket provide convenience for small instruments to be used in the operating area.

## Safety Features

- Front sliding sash interlock with fan and UV lamp
- UV sterilization with UV lamp timing function
- High-quality tempered glass prevents people from being scratched if the glass breaks.
- The host and sockets have independent capacitors to prevent current overload



## Specifications

Model	FMH-D3F	FMH-D4F	FMH-D5F	FMH-D6F	
External Dimensions(W*D*H)(mm)	1000*850*2150	1220*850*2150	1525*850*2150	1830*850*2150	
Internal Dimensions(W*D*H)(mm)	880*730*745	1100*730*745	1405*730*745	1710*730*745	
Control System	Microprocessor controller with LCD display, graphical and digital display of the operating status of each function.				
Maximum Opening	520mm				
Work Surface Height	750mm				
Airflow Velocity	Adjustable, 0.3-0.8 m/s				
Air Volume(m <sup>3</sup> /hr)/(cfm)	657/387	868/511	1085/639	1085/639	
Active Carbon Filter	Quantity	750*495*30	1055*495*30	1360*495*30	1665*495*30
Sound Emission	≤68dB(A)				
Lighting lamp	6.5W*1				
	LED type, Intensity ≥900Lx				
UV Lamp	20W*1				
	30W*1				
Power Consumption	400W				
	500W				
Cabinet Construction	The power consumption does not include external device connected via power socket				
	Main Body: Electro-galvanized steel with antimicrobial powder coating				
Electricity	Work Table: Solid physicochemical board, resistant to strong acid and alkali				
	Manual Sliding Sash: 5 mm UV resistant tempered glass with counter-balance system and ergonomic handle				
Standard Accessories	Side Windows: 5 mm UV resistant tempered glass				
	AC220V ±10%, 50/60Hz, 1P				
Optional Accessories	Base stand*1; LED lamp*1; UV lamp*1;				
	Waterproof socket*2(only 1 for FMH-D3F); Casters with brakes*4;				
G.W.(kg)	Activated carbon filter*1; Water tap*1; Gas tap*1;				
	Water sink(220*95*150mm)*1; Exhaust duct-10meters*1;				
Package Dimension(W*D*H)(mm)	Solid physicochemical countertop*1				
	HEPA filter; Wind speed sensor; 304 stainless steel countertop;				
Shipping Volume (m <sup>3</sup> )	Base Cabinet				
	250	280	330	390	
	1170*1130*1660	1360*1100*1635	1665*1100*1635	1970*1100*1650	
	2.2	2.5	3.1	3.6	