

Basic Ductless Fume Hood

Introduction

Basic Ductless Fume Hoods (DFH) are a series of high efficiency products designed to protect the user and the environment from hazardous vapors generated on the work surface. At the heart of the DFH product line is the innovative airflow filtration technology that creates a safe work environment over the widest range of applications in the industry.

Features

- Protects the operator from fume and particle hazards
- Improved filter clamping eliminates bypass leakage
- Easy to change filters
- Low airflow alarm
- High capacity

DUCTLESS TECHNOLOGY: THE ECO-FRIENDLY CHOICE

Advanced carbon filtration technology offers a safe, high performance alternative to conventional ducted fume hood products for a broad range of applications.

- **Environmental Benefits.**
DFH isolate and trap chemical vapors to prevent ecological impact through release into the environment.
- **Versatile.**
Each filtration system is selected for its specific application. The airflow filter broadens the range of applications. Carbon filters are available in many configurations for use with vapors or organic solvents, acids, mercury and formaldehyde. HEPA/ULPA filters can add to biological safety.
- **Easy to Install.**
The ductless fume hood is self-contained and does not require venting to the outside. Many units are portable and may be moved from one location to the next with minimal downtime and without filter changes. Set-up, operation and filter maintenance are straightforward.
- **Energy Efficient.**
Because filtered air is returned to the room, no demands are required of the facility HVAC capacity for make-up air.
- **Cost Effective.**
Facility ductwork, HVAC and construction costs are eliminated.
- **Safe to Use.**
Workstation airflow and face velocity protect users from incidental exposures to fumes.
- **Self testing.**
Electronic airflow monitoring assures continuous safety.

FUME HOOD FEATURES & BENEFITS

- DFH are available in 3 standard sizes.
- High capacity air handling system delivers face velocity of 100 fpm.
- A low airflow alarm warns of insufficient face velocity.
- DFH filter assembly is easy to access, easy to change.
- A unique filter clamping design eliminates bypass leakage outside the cabinet.

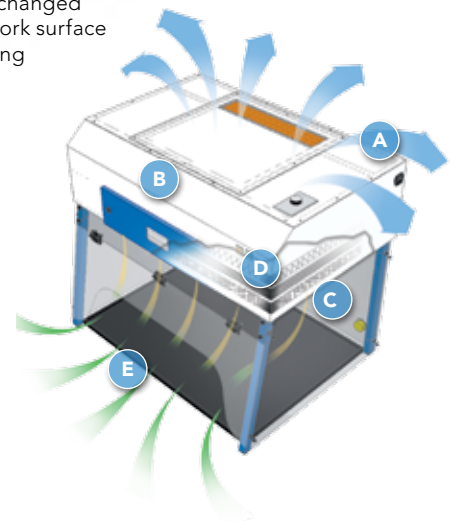


– HFHSP524XT



AIRFLOW PATTERN: DUCTLESS FUME HOOD

- A. Exhaust Air**
- B. Fan / Blower**
- C. Electrostatic Pre-filter:**
Pre-filter may be changed from below the work surface while unit is running
- D. Main Filters**
- E. Room Air Intake**



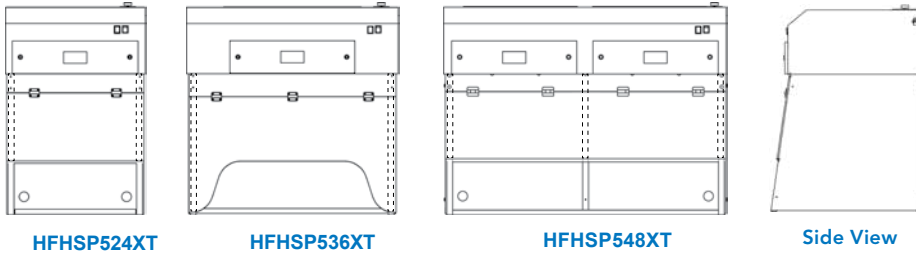
Provides the Finest Operator Safety in the World

Compliant with OSHA, ANSI and other International Standards



BASIC DUCTLESS FUME HOODS

This Product Exceeds OSHA, ANSI and Other International Standards.



MODEL	DIMENSIONS			WEIGHT (lbs/Kg)	
	Internal Height	External (W x D x H)	Shipping (W x D x H)	Net	Ship

Standard Models

HFHSP524XT	24" / 610 mm	24" x 27" x 35" / 610 x 676 x 889 mm	40" x 40" x 30" / 1016 x 1016 x 762 mm	72 / 33	129 / 59
HFHSP536XT	24" / 610 mm	36" x 27" x 35" / 914 x 676 x 889 mm	40" x 40" x 40" / 1016 x 1016 x 1016 mm	99 / 45	157 / 71
HFHSP548XT	24" / 610 mm	48" x 27" x 35" / 1219 x 676 x 889 mm	45" x 55" x 40" / 1143 x 1397 x 1016 mm	138 / 63	195 / 88

Specifications are subject to change without notice.

PRODUCT SPECIFICATIONS

Model	HFHSP524XT	HFHSP536XT	HFHSP548XT
Airflow CFM	135.9	206	281.25
Face Velocity FPM	100	100	100
Noise, dBA, 1 meter	< 50	< 50	< 53
Lighting	<... Compact fluorescent lamp. ...>		
Construction	<... White epoxy coated steel frame and head unit. Clear sides and back panel. ...>		
Blower	<... ebmpapst™ centrifugal fan. ...>		
Electrical	<... 120V, 60Hz or 220V, 50Hz voltages available. Specify when ordering. Other voltage options available. ...>		
Electrical Switches	<... Main On/Off ...>		
Monitoring	<... Low airflow alarm, standard. ...>		

Filter System Specifications

Pre-Filter	Electrostatic, 1 lbs/ .45 kg (nominal)		
Main*	(1) 11 lbs / 5 kg	(1) 11 lbs / 5 kg	(2) 22 lbs / 9.6 kg
Activated Carbon	FILTCO™ Sourced. A single carbon filter containing activated carbon granules chemically formulated to capture one or more specific vapors or family of vapors		

Standard Accessories

Spill Tray	<... Polypropylene spillage tray, available in white or black, slides out for easy cleaning. ...>
Dwyer Air Flow Meter	<... Continuous display of face velocity. ...>
Stainless Steel Hanging Rod and Clips	<... Hanging rod spans the width of the cabinet. ...>

* Single stack; double stack doubles weight of all (i.e. 22, 22, 44).

FILTER SUMMARY

Formula	Descriptions
GP Plus!	The most widely used filter in the range, primarily for solvent, organic, and alcohol removal.
ACI Plus!	Neutralizes volatile inorganic acid vapors.
HEPA/UPLA	Powders and particulates.
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ACR	Iodine and methyl iodide vapors. It is frequently used for iodination reactions with low level radioactive iodine.
ACM	Mercury vapor.
AMM	Removes vapors from dilute ammonia solutions and to remove low molecular weight amines.
SUL	Designed to remove hydrogen sulphide and low molecular weight mercaptans.
CYN	Removal of hydrogen cyanide. Many cyanide compounds will evolve HCN gas if acidified, so this filter is normally specified if working with any cyanide compound.
FOR	Designed to oxidize formaldehyde and glutaraldehyde fumes. It is widely used in hospital pathology laboratories.
ETH	Diethyl ether is adsorbed on activated carbon, but because of its low boiling point, local heat adsorption can reduce the capacity of the filter. Special impregnation allows a chemical reaction which increases the filter capacity.
HEPA/UPLA	Powders and particulates.