

# Advanced Ductless Fume Hood

## Introduction

The Advanced 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 Advanced 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

- High operator protection to fume and particle hazards
- Easy to change filters
- Improved clamping eliminates bypass leakage
- Low airflow alarm
- Optional back up safety filter
- High capacity

### ADVANCED FUME HOOD FEATURES & BENEFITS

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



– SP10DFH

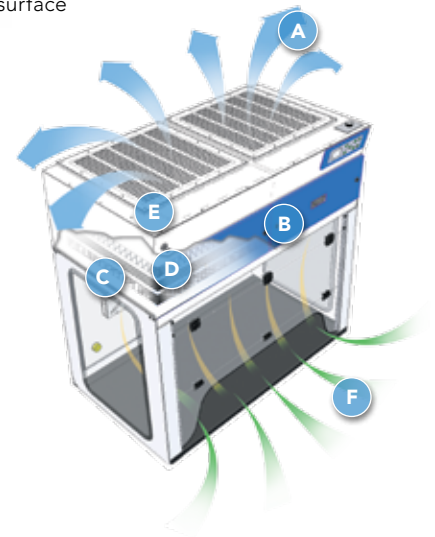
### FILTER SUMMARY

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.
GP Plus!	The most widely used filter in the range, primarily for solvent, organic, and alcohol removal.
ACI Plus!	Neutralizes volatile inorganic acid vapors.
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.



### AIRFLOW PATTERN: ADVANCED 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. Safety Filters**
- F. Room Air Intake**



Provides the Finest Operator Safety in the World

Compliant with OSHA, ANSI and other International Standards



# ADVANCED DUCTLESS FUME HOODS

This Product Exceeds OSHA, ANSI and Other International Standards.

## PRODUCT SPECIFICATIONS

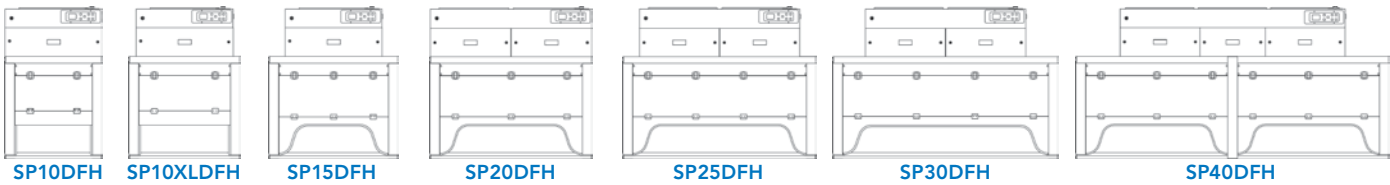
Model	SP10DFH	SP10XLDFH	SP15DFH	SP20DFH	SP25DFH	SP30DFH	SP40DFH
Airflow CFM	145	145	220	295	365	440	590
Face Velocity FPM	100	100	100	100	100	100	100
Noise, dBA, 1 meter	< 50	< 50	< 53	< 53	< 53	< 56	< 67
Lighting	2 x 15 watts						
Construction	<... White epoxy coated steel frame and head unit. Clear sides and back panel. Polypropylene spill tray. ...>						
Blower	<... EBM centrifugal fan. ...>						
Electrical	<... 110V, 60Hz or 220V, 50Hz voltages available. Specify when ordering. Other voltage options available. ...>						
Electrical Switches	<... Main On/Off ...>						
Monitoring	<... Low airflow alarm, standard. ...>						

## Filter Specifications

Pre-Filter	Electrostatic, 1 lbs/ .45 kg (nominal)						
Main	(1) 22 lbs / 9.6 kg	(1) 22 lbs / 9.6 kg	(1) 22 lbs / 9.6 kg	(2) 44 lbs / 20 kg	(2) 44 lbs / 20 kg	(2) 44 lbs / 20 kg	(3) 66 lbs / 30 kg
Safety Filter, Carbon	(1) 11 lbs / 5 kg	(1) 11 lbs / 5 kg	(1) 11 lbs / 5 kg	(2) 22 lbs / 9.6 kg	(2) 22 lbs / 9.6 kg	(2) 22 lbs / 9.6 kg	(3) 33 lbs / 15 kg
Safety Filter, Biological	(1) HEPA / ULPA	(1) HEPA / ULPA	(1) HEPA / ULPA	(2) HEPA / ULPA	(2) HEPA / ULPA	(2) HEPA / ULPA	(3) HEPA / ULPA

## 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. ...>



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

## Standard Height Models

SP10DFH	31.375" / 797 mm	29.5" x 27.375" x 45.875" / 750 x 695 x 1165 mm	50" x 40" x 36" / 1270 x 1016 x 914 mm	106 / 48	156 / 71
SP10XLDFH	31.375" / 797 mm	34" x 27.375" x 45.875" / 860 x 695 x 1165 mm	40" x 40" x 36" / 1016 x 1016 x 914 mm	134 / 61	198 / 90
SP15DFH	31.375" / 797 mm	39.5" x 27.375" x 45.875" / 1000 x 695 x 1165 mm	40" x 50" x 36" / 1016 x 1270 x 914 mm	136 / 62	205 / 93
SP20DFH	31.375" / 797 mm	49.5" x 27.375" x 45.875" / 1250 x 695 x 1165 mm	55" x 60" x 36" / 1397 x 1524 x 914 mm	206 / 93	295 / 134
SP25DFH	31.375" / 797 mm	59" x 27.375" x 45.875" / 1500 x 695 x 1165 mm	40" x 67" x 36" / 1016 x 1702 x 914 mm	224 / 101	302 / 137
SP30DFH	31.375" / 797 mm	69" x 27.375" x 45.875" / 1750 x 695 x 1165 mm	40" x 80" x 36" / 1016 x 2032 x 914 mm	300 / 136	368 / 167
SP40DFH	31.375" / 797 mm	96" x 27.375" x 45.875" / 2438 x 695 x 1165 mm	40" x 108" x 36" / 1016 x 2743 x 914 mm	407 / 184	487 / 221

Specifications are subject to change without notice.