

Ductless Fume Hood B-Series



Shown With Optional Stand

GSDF-A



This ductless fume hood is designed to protect laboratory personnel and the environment from toxic fumes. The Geneva Scientific B-Series Ductless Fume Cabinet offers a sensible balance of quality, performance features and cost-effectiveness. It operates at a very low noise level (56dBA) with extremely low energy consumption (4ft cabinet - only 0.22kW) and is fully compliant to major international standards.

Key Features

Better airflow uniformity and distribution within the hood for better operator protection.

Certified containment - chemical vapors are contained within the enclosure and will not leak through the front opening.

Permanently lubricated direct drive centrifugal fan(s); energy efficient external rotor motor type design reduces operating costs; extremely low noise and vibration levels due to proprietary construction and mounting technology.

Built-in solid state variable speed controller(s) with built-in RFI and noise filters is superior to conventional "step" controllers.

Industrial-grade main body constructed of electrogalvanised steel: with an abrasion-resistant white oven-baked powder-coated finish.

Antimicrobial surface on all painted surfaces minimizes surface contamination.

Transparent frameless acrylic front window and sides provide a high degree of visibility and operator comfort; front window is mounted on self-supporting pre-tensioned hinges, allowing for easy access during hood loading and startup.

Ergonomic oval-shaped apertures for hands in the front window allows for maximum reach within the work zone while providing the operator with extra protection from any possible chemical spillage.

Removable stainless steel work surface.

Nanocarb™ Filters

Nanocarb™ activated carbon filters are constructed in order to ensure maximum filter efficiency, retention capacity and operator protection. Research scientists and engineers, working in consultation with world-leading authorities on adsorption science, have developed the following set of unique technologies:

Optimized retention capacity

Continuous incoming quality control tests

Generously sized filters

Proprietary computer modelling software.

Rigid, sheet metal construction.

Quick-changeout filter clamping mechanism.

Diffusion technology (US patent pending) to ensure even filter loading.

Chemical Guide

You might have concerns over which filters to choose for specific chemicals, as there are hundreds of different types of activated carbon in the world, each made for different specific applications. The Chemical Guide is a list of most commonly used laboratory chemicals and reagents, arranged in alphabetical order. Each chemical has been thoroughly studied by research scientists and engineers, and its suitable Nanocarb™ activated carbon filter indicated.

Note: Each Ductless Fume Hood is delivered with a Chemical Guide.

Sentinel Microprocessor Control

Continuous monitoring of hood airflow is displayed on a bright, easy-to read LCD panel.

An integrated, temperature-compensated, true airflow velocity sensor provides an accurate airflow reading despite room temperature fluctuation.

Sentinel Control Not offered on the 2' Model. On/Off Swathes

Ductless Fume Hood

GSDF-B

General Specifications		GSDF-2-A	GSDF-3-A	GSDF-4-A
External Dimensions (W x D x H)		21.3" x 27.6" x 39.0"	33.1" x 27.6" x 44.3"	44.9" x 27.6" x 44.3"
Internal Work Area (W x D x H)		20.7" x 26.1" x 29.7"	32.3" x 25.6" x 33.7"	43.9" x 25.6" x 33.7"
Activated Carbon Filter	PreFilter	Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated		
	MainFilter	Activated carbon with granular media bed (7 different filter types available, codes A to G - refer to page 23 of this catalogue. State required filter type when ordering)		
Total Weight of Carbon in main Filter		20.1 lbs	34 lbs	2 x (20.1 lbs) each
Inflow Air Velocity		Initial setpoint: average of 0.5 m/s or 100 fpm measured in plane of work aperture		
Air Volume		102 cfm	138 cfm	
Sound Emission		<62 dBA	<58 dBA at initial blower speed setting measured at typical operator work position	
Fluorescent Light Intensity at 0 Ambient		No Light	>350 lux / >28 foot candles at work surface level	
Cabinet Construction	Main Body	18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide antimicrobial powder coated finish		
	Front Window	Acrylic		
	Side Wall	Acrylic		
	Back Wall	18 gauge electrogalvanized steel with white oven-baked epoxy-polyester Isocide (3' & 4' Models have optional Acrylic)		
	Work Top	None	16 gauge stainless steel, type 304, with 4B finish	
Electrical *	Maximum Power/Amp	75W / 0.5A	140W / 1.2A	170W / 1.5A
	Full Load Amp	0.5A	1.2A	1.5A
	btu/Hr	256	478	580

*Electrical given for 110-120V, AC, 60Hz, 1Ø, Additional electric available, please contact Geneva Scientific

Accessories and Options

Transparent Acrylic Back Wall for classroom and educational demonstrations

Stands

Stand; 28"-30"

Adjustable Stand with Leveling Feet;

Adjustable Stand with Casters

Warranty

Our ductless fume hoods are warranted for 5 years excluding consumable parts and accessories.

Each cabinet is shipped with a comprehensive user's manual complete with a report documenting all test procedures.

Additional IQ/OQ/PQ documenting is available upon request.

Filter Options Guide		
Code	Name	Suitable Application
A	Standard Filter	All common laboratory chemicals, especially with organics. When no specific requirements are present, or when more than one type of chemical is used.
B	Acid Filter	Applications involving sulphur dioxide, hydrofluoric acid fumes. Removes inorganic / organic acid vapours and fumes.
C	Mercury Compounds Filter	Highly effective for removal of mercury vapour and compounds. (Stable, non-volatile mercuric sulphide filter media).
D	Sulphur Compounds Filter	Removal of sulphur compounds.
E	Halogen Compounds Filter	Removal of halogen compounds like Chlorine, Fluorine, Iodine, Bromine, Astatine etc.
F	Aldehyde Filter	Formaldehyde applications or when aldehydes are present. Hospital pathology and endoscopy applications.
G	Aldehyde Filter	High performance removal of ammonia/amines by chemisorption.
Optional HEPA Filter		HEPA filter with a typical efficiency of 99.99% removes particulates and aerosols. Ductless fume hoods with HEPA filters are suitable for cleanroom applications, or may be used as a Class I Biological Safety Cabinet.
Optional Secondary Backup Carbon Filter		When installed, hood complies with the requirements of ANSI/AIHA Z9.5-2003.

For More Information
on our line of ductless
fume hoods, please
contact us



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