



Ductless Fume Hood B-Series

GSDF-B



Shown With Optional Stand

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

- Grade stainless steel (S/S304) work surface that will never rust, chip, or generate particles.
- Lip at the front edge of the work surface ensures that any spillage is contained within the workzone.
- A fully configurable Sentinel™ microprocessor control with audible and visual alarms for unsafe conditions.
- Built-in 5000k warm white fluorescent lighting.
- Front service panel opens up easily for immediate access for all maintenance functions.
- Small Filter ID window to easily identify the type of filter being used.
- Powder-coated panel-mounted single electrical outlet provision.
- Isocide™ antimicrobial coated structure eliminates 99.9% of bacterial presence on external surfaces within 24 hours.
- All cabinet service and filter replacement can be carried out from the front, allowing the cabinet to be placed against walls in the laboratory to save space.
- Electronic module behind the hinged front panel for easy access during troubleshooting and certification.
- Retrofit Kit™ service fixture for air/water/vacuum/gas outlets.
- Retrofit Kit™ Polypropylene drip-cup sink and epoxy powder-coated swan neck faucet.
- Exhaust collar for added operator safety.
- PID sensor to monitor the chemical concentration within the cabinet workzone.
- Secondary back-up filter HEPA or Activated Carbon (complies with the requirements of ANSI/AIHA Z9.5-2003). (See Options)

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.

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General Specifications		GSDF-3-B	GSDF-4-B	GSDF-5-B	GSDF-6-B
External Dimensions (W x D x H)		40.7" x 28.1" x 55.5"	52.8" x 28.1" x 57.5"	64.8" x 28.1" x 55.5"	76.8" x 28.1" x 55.5"
Internal Work Area (W x D x H)		40.7" x 25.3" x 30.7"	50.0" x 25.3" x 30.7"	64.8" x 25.3" x 30.7"	76.8" x 25.3" x 30.7"
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		2 x (22.7 lbs) each	2 x (30.6 lbs) each	2 x (38.3 lbs) each	3 x (30.6 lbs) each
Inflow Air Velocity		Initial setpoint: 0.40 m/s or 80 fpm			
Air Volume		205 cfm	269 cfm	334 cfm	399 cfm
Sound Emission		55 dBA	57 dBA	58 dBA	58 dBA
Fluorescent Light Intensity at 0 Ambient		>1000 Lux (>93 foot-candles)			
Airflow Volume	Main Body	18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide antimicrobial powder coated finish			
	Side Wall	Tempered Glass			
	Back Walls	18 gauge electrogalvanized steel with white oven-baked epoxy-polyester Isocide antimicrobial powder coated finish			
	Work Top	16 gauge stainless steel, type 304, with 4B finish			
Electrical *	Maximum Power/ Amp	350W / 3.5A	385W / 3.5A	450W / 4A	500W / 4A
	Maximum Outlet Amp	5A	5A	5A	5A
	Total Amp	8.5A	8.5A	9A	9A
	btu/Hr	714	785	918	1020
*Electrical given for 110-120V, AC, 60Hz, 1Ø, Additional electric available, please contact Geneva Scientific					

Accessories and Options

Transparent Tempered Glass Back Wall for classroom and educational demonstrations

Secondary Backup Carbon Filter

Secondary Backup HEPA Filter in addition to the carbon filter. Suitable for applications involving the generation of biohazardous aerosols in the work zone.

Stands

Stand; 28"-30"
Adjustable Stand with Leveling Feet;
Adjustable Stand with Casters
Hydraulic, Motorized Adjustable Stand

Outlets and Fixtures

Electrical Outlet, ground fault.
VOC Sensor
Factory Installed Fixtures; Polypropylene drip cup sink, epoxy coated swan neck faucet

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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