



## Modular Ventilation and Filtration System

- Protection Against Chemical Inhalation Risks



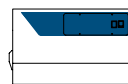
*VentBOX™ VB60, shown on flammable safety cabinet, not included*



Operator



Vapor



60



Schedule  
Contract # GS-47QSMS24D0042



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## INTRODUCTION

Air Science Vent BOX™ ductless filtration systems are designed to protect laboratory personnel from chemical vapors found inside of stand alone chemical safety cabinets. The Vent BOX serves as modular ventilation and a filtration system for all chemical safety cabinets.

## APPLICATIONS

Using innovative filtration technology, the Vent BOX creates a safe work environment over the widest range of applications in the industry.

Flammable Materials \ Acid and Corrosive  
Chemicals \ Paints \ Pesticides



*Deep into its second generation, Air Science embraces the diversity and cultural heritage of the founders and co-workers who are continuing a tradition of excellence. Demonstrating a commitment to adaptation, inclusion and quality output from a United States-based company with a domestic and global reach.*

## KEY FEATURES

- Low-profile, completely portable, no ductwork required.
- Compact size, easily positioned on shallow safety cabinets.
- Modular design permits multiple configurations.
- Universal connections allow retrofit to almost all available flammable and safety cabinets on the market.

## FEATURES AND BENEFITS

The Vent BOX modular ventilation and filtration system is packed with features to make configuration and maintenance simple.

- The filter is easy to replace, no tools required. The filter clamps tightly against the filter gasket to maintain a positive seal and airtight connection.
- Ducting configuration is simple with locations for up to four input hose connections. The Vent BOX can be used as a ductless setup or can be ducted into an existing exhaust system with the optional ducting collar.
- The adjustable speed controller allows you to set the centrifugal fan motor speed as desired.
- Hose material options include PVC or metal for long lasting durability.
- Modular design permits multiple configurations.
- Universal connections allow retrofit to almost all available flammable and safety cabinets on the market.



VentBOX VB60 shown on optional wall mount

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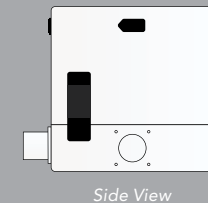
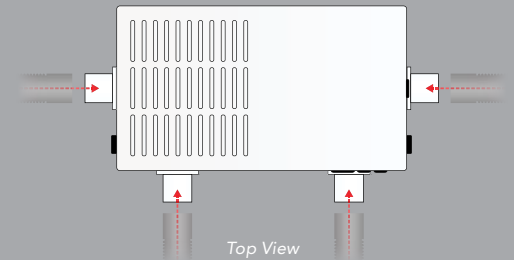


## DESIGN FEATURES

- A. Filtration:** Available with Multiplex™ filtration technology, a unique configuration that includes a pre-filter and main carbon filter. HEPA/ULPA filtration is also available.
- B. Hose:** Each unit is provided with a PVC or metal flex hose with smooth inner surfaces to minimize pressure drop and friction loss. The vent hose is connected to the cabinet via a metal adapter.
- C. No-Tools Filter Access:** The filter is easy to replace, no tools required. Simply open the easy access lid and change the filters.
- D. Multiple Connection Configurations:** The Vent BOX comes equipped with four possible intake connections, allowing you to easily configure the unit to meet your space requirements.
- E. Exhaust Port:** Slotted exhaust port allows for an optional bolt-on ducting collar that allows connection to existing in-house ductwork.
- F. Leveling Feet:** Equipped with adjustable leveling feet that ensure solid placement on a variety of surfaces.

## ADDITIONAL FEATURES

The Vent BOX is equipped with four intake hose connections, allowing for multiple configurations based on your space and layout requirements. One intake hose connection is located on either side of the Vent BOX top frame, with two connections located on the front portion of the frame. Cover plates are available for the unused connection ports.



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Each Air Science Vent BOX includes features expressed through sound design and certified quality construction. Options and accessories add functional performance to meet specific applications.

## PERFORMANCE

The Air Science [Multiplex Filtration System](#) offers a range of options for high performance protection.

Multiplex filter configuration permits a customized combination of filter media for a broad range of chemical families and biological agents if required.

## DESIGN

The professional quality cabinet frame and work surfaces are comprised of durable and chemically resistant industrial components.

The Air Science filter assembly is easy to access, easy to change, plus a unique filter clamping design eliminates bypass leakage outside the cabinet.

## RELIABILITY

Internal systems are isolated from fumes, extending product life.

## SELECTION

The Air Science Vent BOX is available in one standard size and five color choices: white, blue, green, red and yellow.

## CONTROL

The **basic control panel** is standard and includes an On/Off switch.



Basic Control Panel



VB60



VB60-BE



VB60-GN



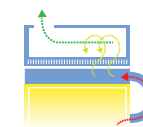
VB60-RD



VB60-YW

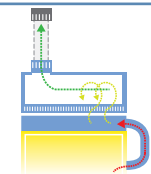
## OPERATION MODES

### Mode 1:



ductless/filtered

### Mode 2:



ductless/filtered with  
connection to in-house exhaust

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## FILTRATION

At the heart of the Air Science Vent BOX is innovative filtration technology. **The Multiplex Filtration System** consists of a pre-filter cartridge, main activated carbon filter cartridge or optional HEPA/ULPA filter cartridge. The system permits a customized combination of filter media and configuration for chemical and physical adsorption specific to each application need.

The Air Science **carbon filtration technique** is based on enhanced, activated carbon particle formulations from specially selected, naturally occurring raw material that is superior to wood or other organic sources. The carbon is treated to attain the proper porosity and aggregate surface area and to react with several ranges of aerosolized chemicals moved through the filter by an air handling blower.

View available filter cartridges and descriptions on [page 6](#).



 Filter disposal services are available in selected markets providing responsible destruction or recycling of used saturated filters in authorized facilities.

## FILTER CONFIGURATION

The Multiplex feature permits filtration options to meet a wide range of multiple-use applications.

The Vent BOX can be equipped with a single carbon main filter cartridge activated to adsorb one or more specific vapors or family of vapors. An optional HEPA or ULPA filter cartridge may be used for safety against particulates.

The carbon filter cartridge is sized to fit the specified product model number and configured to optimize airflow across 100% of the filter surface area. The self-contained assembly maximizes filter efficiency, prolongs filter life, optimizes diffusion and saturation and improves user safety.

- P. Electrostatic Pre-Filter:** Protects the main filter cartridges from aerosols, mists, dust and particulates.
- C. Activated Carbon Main Filter:** A single filter cartridge configuration.
- H. HEPA/ULPA Filter, Optional:** Both HEPA and ULPA filter cartridges use micro-glass fiber media designed to capture fine particles and biologicals. Both filter cartridges can capture particles smaller than the micron size for which they are tested. HEPA and ULPA filter cartridge efficiencies are 99.97% at 0.3 microns and 99.999% at 0.12 microns respectively.

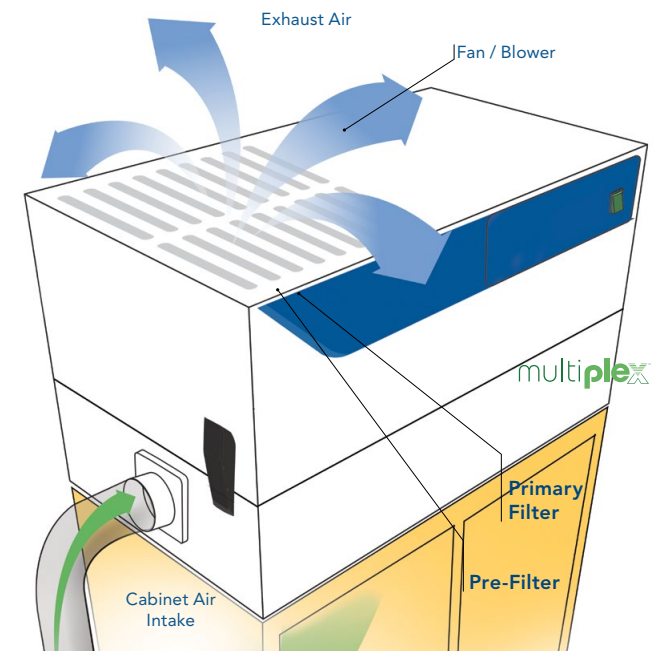
MULTIPLEX FILTRATION SYSTEM, SUMMARY		
Application	Chemical	Powder/ Biological
Primary Filter	C	H
Pre-Filter	P	P

## AIRFLOW

Contaminated air is pulled through the Multiplex Filtration System. Activated carbon adsorbs chemical vapors and optional HEPA/ULPA filters capture particulates. Clean air is returned to the room.

**The main filters** are easy to replace with no tools required. The filter clamps tightly against the filter gasket to prevent filter bypass and maintain filter integrity.

 **The pre-filter** may be replaced while unit is in operation.



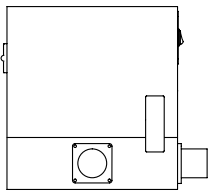
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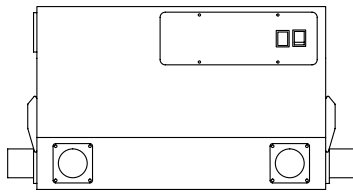


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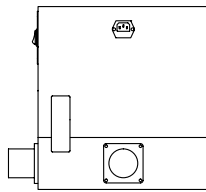
Left Side View



Vent BOX VB60



Right Side View



MODEL	DIMENSIONS		WEIGHT (LBS/KG)	
	External (W × D × H)	Shipping (W × D × H)	Net	Ship
VB60	21.25" × 12" × 13" / 540 × 305 × 330 mm	24" × 22" × 18" / 610 × 559 × 457 mm	32 / 14	34 / 15

**PRODUCT SPECIFICATIONS**

Filtration	VB60
Airflow	<... Variable ...>
Construction	VB60
Finish	<... White epoxy coated steel. ...>
Controls	<... Main On/Off. ...>
Electrical	<... 120V, 60Hz or 230V, 50Hz voltages available. Specify when ordering. Other voltage options available. ...>
Hose	<... PVC or metal, flexible. The vent hose is connected to the cabinet via a threaded 2" diameter (50.8 mm) metal bung adapter. The discharge end accommodates a 1.5" diameter (38.1 mm) metal or PVC hose. ...>

**FILTER SPECIFICATIONS**

Purair Model	VB60
Primary Filter(s)*	(1)
Pre-Filter*	(1)

\* For specific examples refer to Multiplex filtration system summary on [page 5](#).

**FILTER SUMMARY\***

Formula	Description
GP Plus!	The most widely used filter cartridge in the range, primarily for solvent, organic and alcohol removal.
ACI Plus!/ SUL	Designed to neutralize volatile inorganic acid vapors.
ACR	Iodine and methyl iodide vapors; It is frequently used for iodination reactions with lower level radioactive iodine.
ACM	Mercury vapor.
AMM	Removes vapors from dilute ammonia solutions and to remove low molecular weight amines.
FOR	Designed to oxidize formaldehyde and glutaraldehyde fumes; It is widely used in hospital pathology laboratories.
HEPA/ULPA	Powders and particulates.

\*Other formulas may be available.

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OPTIONS & ACCESSORIES

Model		VB60
Polypropylene Construction*	Units available in all polypropylene construction.	VB60-PP
Wall Mount	White epoxy coated steel shelf, specifically sized to hold the Vent BOX modular ventilation system. Mounting hardware not included.	WALLMOUNT-VB
Ducting Collar	For connecting the Vent BOX to building exhaust for outside ducting.	EXCOLLAR-VB
Color Match	Match the color of the Vent BOX unit to any type of chemical storage cabinet (Blue, Green, Red, Yellow).	BLUE GREEN RED YELLOW

\* Factory installed; specify when ordering.



Through our partner company [Filtco Filters](#), Air Science is a single source supplier of all pre-filters, carbon filters, and HEPA/ULPA filters used in our products.

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Warranty Info.

**WARRANTY**

This product is protected by the Air Science Legacy Limited Lifetime Warranty™.



For details visit the [Warranty section](#) of our website.

STANDARDS & COMPLIANCE

Quality Management Systems	ISO 9001 : 2015
Electrical Safety	UL-C-61010-1 CAN/CSA C22.2 61010-1-12 EN 61010-1:2010 CE Mark
OSHA, Occupational Safety and Health Administration	OSHA Standard -29 CFR, Safety and Health Regulations for General Industry, 1910.1450: Occupational exposure to hazardous chemicals in laboratories. Part B, definition, laboratory type hood. Please consult your Safety Officer and/or Industrial Hygienist.
Environment	ISO 14001: 2015 ENERGY STAR® Partner



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