

Vent-Box™

Modular Ventilation and Filtration System

"Modular Ventilation and Filtration Systems for all Chemical Safety Cabinets."



*Shown on flammable safety cabinet.
Cabinet not included.*

Protection Against Chemical Inhalation Risks
Without Expensive Energy Consuming Ductwork

Fans certified by CSA International to U.S. and Canadian standards for use in Class I, Division 2, Groups B, C, and D hazardous (classified) locations..





Vent-Box™ Ductless Filtration Systems

- *Low-profile, completely portable, no ductwork required.*
- *Compact size, easily positioned on even shallow safety cabinets.*
- *Modular design permits multiple configurations.*
- *Universal connections allows retrofit to almost all available flammable and safety cabinets on the market.*
- *Meets or Exceeds OSHA, ANSI, and other International Standards.*
- *Vent-Box VB60.*



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 filtration system for all chemical safety cabinets.

APPLICATIONS

Flexible cabinet ventilation for storage of:

- Flammable materials
- Acid / Corrosive chemicals
- Paints
- Pesticides
- Hazardous materials

multiple^x

AIR SCIENCE MULTIPLY FILTRATION TECHNOLOGY SYSTEM

The Vent-Box utilizes the exclusive Air Science Multiplex Filtration System, a unique configuration that includes a pre-filter and main filter to create a chemical, physical or combination architecture to adsorb, neutralize or trap the target chemicals or particulate while constant negative pressure removes vapors and particulates from the cabinets interior. Fumes are pulled via a flexible hose connected to the cabinet and clean, filtered air is returned to the laboratory, eliminating the need for external ducting and minimizing loss of treated, conditioned air from the facility.

MULTIPLY SYSTEM FILTERS

- **Pre-Filter.** The electrostatic pre-filter protects the main filters from aerosols, dust and particulates with filtration efficiency superior to 95.5% down to 0.5 microns.
- **Main Filter.** Activated Carbon FILTCO™ Sourced. A single carbon filter containing chemically-formulated activated carbon granules is selected when ordering to accommodate a specific vapor or family of vapors.
- **HEPA Filter.** A self-contained Camfil-Farr HEPA filter is designed to physically capture particles larger than 0.3 microns.



This Product Exceeds OSHA, ANSI and Other International Standards.

THE AIR SCIENCE PERFORMANCE ADVANTAGE

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.

- **Professional Quality.** Air Science products comply with current technical and safety regulations.
- **Advanced Filtration.** Air Science Multiplex filtration provides high performance protection.
- **Industrial Components.** The Vent-Box frame and outer surfaces are durable and chemically resistant.
- **Reliability.** Internal systems are isolated from contamination, extending product life.



The Vent-Box incorporates fans certified by CSA International to U.S. and Canadian standards for use in Class I, Division 2, Groups B, C, and D hazardous (classified) locations, with low noise and minimal vibration.

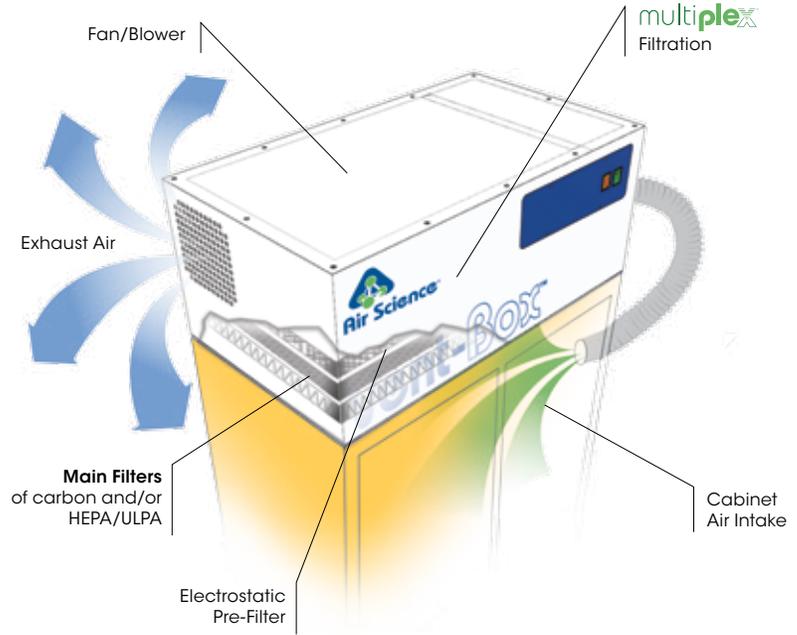
AIR SCIENCE CARBON FILTRATION

Air Science carbon filters are based on enhanced, activated carbon particle formulations from naturally occurring raw material superior to wood or other organic sources. Our carbon is treated to attain the proper porosity and aggregate surface area, while reacting with several ranges of aerosolized chemicals moved through the filter by an air handling blower.

The table below specifies the standard formulations of carbon available within our MultiPlex Filtration Technology.



VENT-BOX AIRFLOW PATTERN

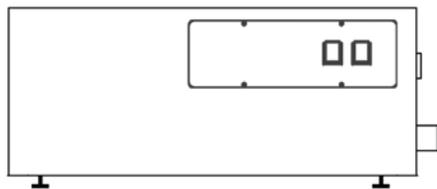


- Vent-Box, VB60 shown with Multiplex filtration system.
- The Vent Box maintains a constant low velocity air flow through the cabinet. Contaminated air is pulled through the Multiplex filtration system where activated carbon adsorbs chemical vapors and/or particulates if HEPA/ULPA filters are used. Clean air is returned to the room.

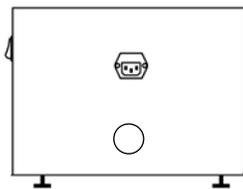
FILTER SUMMARY

Formula	Description
GP Plus!	The most widely used filter in the range, primarily for solvent, organic, and alcohol removal.
ACI Plus!	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.
SUL	Designed to remove hydrogen sulfide and low molecular weight mercaptans.
CYN	Removal of hydrogen cyanide. Many cyanide compounds will evolve HCN gas which acidifies, 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, the local head adsorption can reduce the capacity of the filter. Special impregnation allows a chemical reaction which increases the filter capacity.
EDU	Designed to handle chemicals normally used in a university level chemistry curriculum.
MIL	As the name implies, this filter is designed for military applications involving war gasses.
HEPA/UPLA	Powders and particulates

This Product Exceeds OSHA, ANSI and Other International Standards.



Vent Box VB60



Side View

MODEL	DIMENSIONS		WEIGHT (lbs./Kg)	
	(W x D x H)	Shipping (W x D x H)	Net	Ship
Vent Box				
VB60	21.25" x 12" x 12" 540 x 305 x 305 mm	24" x 22" x 14" 610 x 508 x 360 mm	29 / 13	31 / 14

PRODUCT SPECIFICATIONS

Vent Box Model	VB60
Filter Weight	3 lbs/1.5 kg
Pre-filter Weight	1 lb/0.4kg
Airflow	3 CFM
Noise	<45 dBa
Construction	White epoxy coated steel filtration
Electrical	120v 60hz; 220 50hz available, specify when ordering.
Electrical Switches	Main On/Off
Monitoring	Low airflow alarm , standard
Hose length	1 meter, PVC, Flexible
Air Sampling Port	Air sampling port allows manual filter monitoring

Specifications are subject to change without notice.



VB60-YW



VB60-RD



VB60-GN



VB60-BE



VB60

OPTIONS AND ACCESSORIES

Filter Saturation Alarm and Electronic Hour Counter*	An electronic gas sensor emits audio and visual alerts when the main filter needs to be changed. The option also includes and electronic hour counter to track unit run time.	FSA
Polypropylene Construction*	Units available in all polypropylene construction	VB60-PP
Color match	Match the color of the Vent-Box unit to any type of chemical storage cabinet (Yellow, Red, Green, Blue)	VB60-YW VB60-RD VB60-GN VB60-BE

* Factory installed. Specify when ordering.



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