Chemical Fume Control

Model 500 Tri-Core Chemical Fume Extractor

MADE IN THE USA

SINCE 1983

Model # SS-500-TRICORE

The **Model 500 Tri-Core Chemical Fume Extractor** offers enhanced protection with dual or triple carbon gas-phase filtration. This unique system utilizes a three-stage filtration process consisting of a HEPA filter stage to help remove particulate from the airflow and two Activated Carbon filter stages to adsorb most chemical vapors and odors. Also, the **Tri-Core Fume Extractor** can utilize three Activated Carbon filter stages for demanding chemical environments. The dual or triple Activated Carbon filters offer greater adsorption capacity and accommodate diverse or changing chemical environments. This unique design provides effective fume protection for smaller workspaces or benchtop applications that handle higher volumes of chemicals or acids without requiring a large, facility-scale chemical scrubber. This system can incorporate both a standard Activated Carbon filter and a Specialty-Blended carbon filter optimized to capture acid gases, aldehydes, or amines. Certain laboratories and industrial applications use chemicals from different families that standard carbon filtration may not be optimized for. For example, environmental testing laboratories use a mix of acids and solvents that create harmful fumes and could benefit from a single fume control solution for general VOC's, odors, and acid gas fumes. Other applications that could benefit from the **Tri-Core Chemical Fume Extractor** include *electronics manufacturing, small-scale metal finishing, solvent cleaning stations, specialty chemical formulation, and quality control labs*.

The **Tri-Core Chemical Fume Extractor** contains a total of ***4 HEPA filters*** and ***8 Activated Carbon Filters***, or ***12 Activated Carbon***, offering 42 lb per filter or 336 lbs total for the dual carbon and 504 lbs for triple carbon. This large volume of Activated Carbon provides added protection against breakthrough of chemical fumes and provides better odor control. With more adsorption media, this system offers a longer filter life and increased VOC capacity. The unique design of the system allows a single stage or filter set to be replaced as needed rather than replacing combination filters commonly found on the market reducing maintenance cost and providing chemical flexibility.

The **Tri-Core Chemical Fume Extractor** comes standard with a 7' long x 6" diameter heavy-duty extractor arm with a 10" capture hood capable of handling high volumes of chemical fumes. This arm is constructed of aircraft-grade aluminum and flexible segments of flame-retardant hose. The fume extractor can also be fitted with one or two flame-retardant exhaust hoses for connecting to industrial equipment or fume hoods. With heavy-duty casters and no external ducting, the **Tri-Core Chemical Fume Extractor** provides a portable benchtop-level fume extractor that captures fumes at the source for a variety of high-intensity chemical lab and industrial applications.

*The **Model 500 Chemical Fume Extractor** is also available with a HEPA filter and a single activated carbon filter stage or dual carbon for less demanding chemical applications.*

Model 500 Tri-Core Chemical Fume Extractor with 7' Heavy-Duty Arm

The Tri-Core Fume Extractor can be connected with exhaust hoses to fume hoods or equipment.

Product Features

- ***Includes:*** Variable Speed Controller (115V only), heavy-duty casters, and 7' Heavy-Duty Extractor Arm
- Reliable, low maintenance solution
- Refillable Activated Carbon filters
- No exterior ducting required/makeup air
- Simple, quick "no tool" filter change

SAS
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Product Specifications

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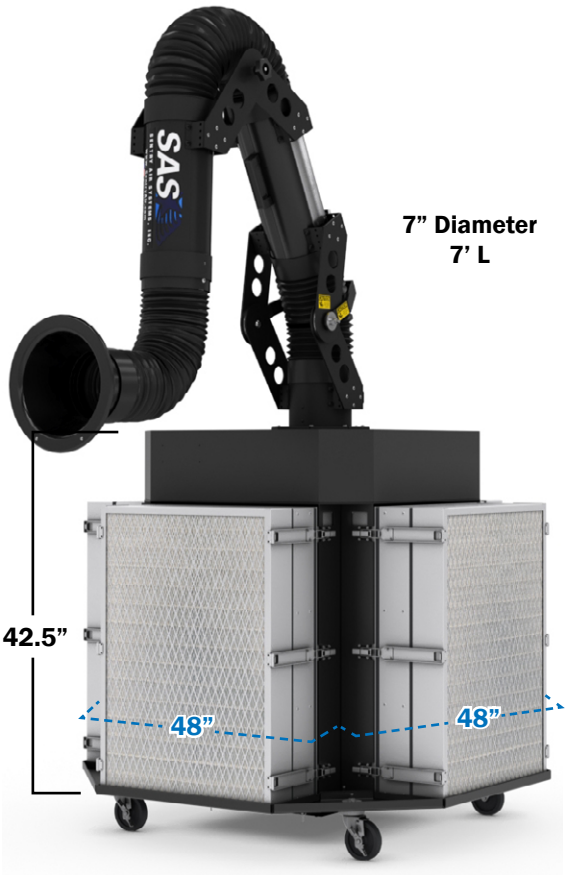

Dimensions are approximate.

Base Unit	48” L x 48” W x 42.5” H
Arm Dimensions	7” Diameter, 7’ L Heavy-Duty Arm
Arm Material	***Rigid segment:*** Aircraft-grade aluminum, 7” diameter ***Flexible segment:*** Black Flex Sentry™ flame-retardant hose ***Capture Hood:*** 10.5” round powder coat aluminum hood
Cabinet Material	16 Ga. cold rolled steel
Weight (approximately)*	775 lbs with filters
Air Volume (Max CFM)*	629 CFM
Electrical	115/1/60, 2.5 amps 220/1/50, 1.5 amps 8’ grounded power cord with NEMA 5-15P plug
Sound Level (High at 3’ from inlet)	Approx. 65 dba
Main Filters	**Configuration 1 - 336 lbs of Carbon**
	(4) **HEPA Filters** (up to 99.97% efficiency on particles down to 0.3 microns) (8) **42 lb Activated Carbon Filters** or **Specialty-Blended Filter Media** [acid gas, ammonia, & aldehyde]
	Configuration 2 - 506 lbs of Carbon
	(12) **42 lb Activated Carbon Filters** or **Specialty-Blended Filter Media** [acid gas, ammonia, & aldehyde]
Warranty	Limited one-year warranty from the date of shipment on defects due to materials or workmanship.
US Patent	#61,563,228

**Values shown for Configuration 1 with HEPA & Dual Carbon. Airflow values tested in-house. Airflow may vary.*

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