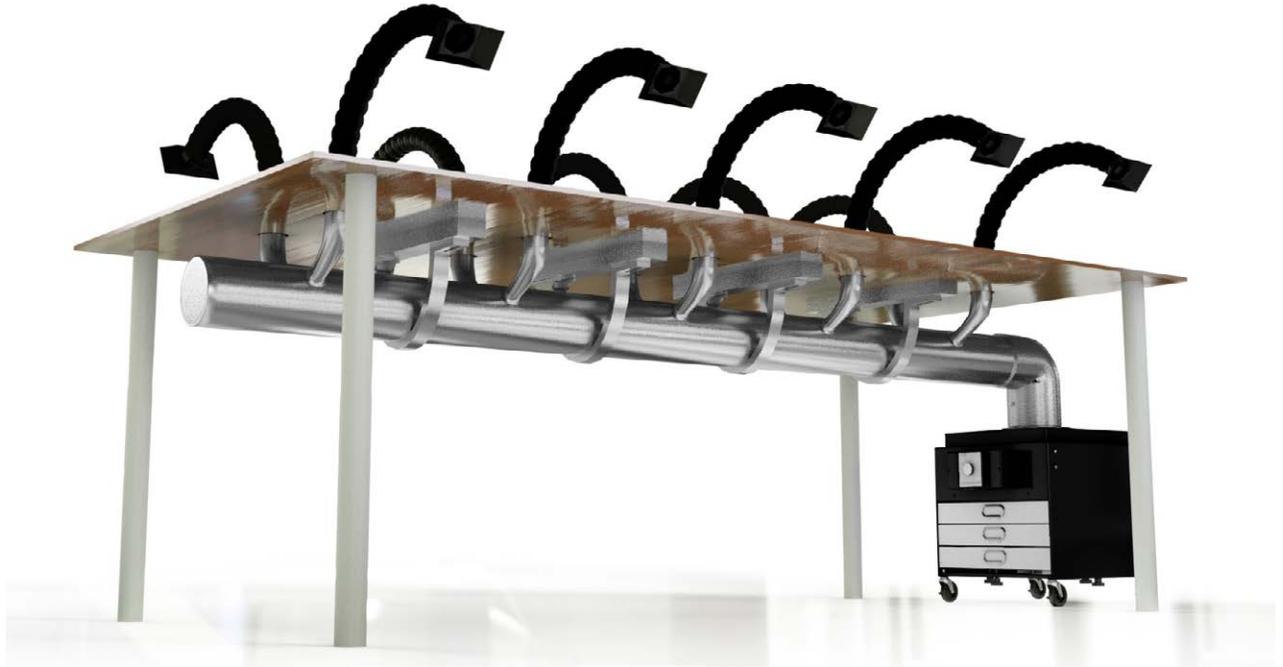


Multi-Station Fume Extraction Workstation

Model # SS-450-CUSTOM



Sentry Air Systems' mechanical engineering team created this conceptual design for a **Multi-station Fume Extraction Workstation** intended to incorporate up to 20 stations with bench-top fume extraction access. This system utilizes a **Model 450 Fume Extractor** that affixes to appropriate tubing or piping (not included) and outfitted with the desired amount of self-supportive flex arms. Sentry Air Systems only will supply the fume extractor and flex arms, and will not provide tubing/piping or the attachment of any elements of the apparatus. The customer or outside vendor will be responsible for manufacturing and installing the table or workspace, tubing, or any other connections to the fume extractor. The Sentry Air Systems supplied self-supportive flexible arms offers safety protections through flame-retardant material construction.



Typical uses of this unit include fume and particulate removal for *soldering, chemicals, solvent and epoxy control, pharmaceutical powders, spices or other food packaging that involves the emission of particulate or dust, and other various industrial processes.*

Depending on the application, filter choices include **HEPA** (up to 99.97% efficiency on particles as small as 0.3 microns), **ASHRAE** (up to 95% efficiency on particles as small as 0.5 microns), **ULPA** (up to 99.995% efficiency on particles as small as 0.12 microns), **Activated Carbon**, and **Specialty-Blended Media** (acid gas, mercury, aldehyde, ammonia).



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Product Features

- Variable speed controller (115V only)
- Self-supportive, flexible arm
- 360-degree swivel arm
- Quiet, reliable, and low maintenance operation
- Low power consumption
- Long filter life
- Simple, quick “no tool” filter change
- **Optional:** magnehelic gage, hour counter

Approximate Air Flow

The Model 450 Fume Extractor delivers a specified air flow dependent on the amount of arms attached and the length of piping utilized. Based on factory testing, the chart below demonstrates the approximate CFM (cubic feet per minute) for both Sentry Air’s HEPA filter (with pre-filter,) as well as our 22lb. Carbon Filter based on the number of arms attached.

# of Arms	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20
HEPA + Carbon Pre-Filter	90 CFM	85 CFM	82 CFM	82 CFM	81 CFM	68 CFM	61 CFM	53 CFM	43 CFM	39 CFM
22 lb Activated Carbon Filter	57 CFM	55 CFM	54 CFM	54 CFM	51 CFM	43 CFM	37 CFM	32 CFM	28 CFM	25 CFM

Product Specifications

Base Unit Dimensions	Depth: 20” Width: 20” Height: 17.25”
Arm Material	Self-supportive flexible flame-retardant
Cabinet Material	16 Ga. carbon steel
Weight	Approximately 50 lbs to 100 lbs <i>(depends on filter media)</i>
Air Volume (Total)	High: up to 950 CFM Low: down to 55 CFM
Electrical	115/1/60, 10 amps
Sound Level	Approx. 72 dba (High) at 3’ from inlet
Main Filter Options	HEPA (up to 99.97% efficient on particles down to 0.3 microns) ASHRAE (up to 95% efficient on particles down to 0.5 microns) Activated Carbon Specialty-blended filter media (i.e. acid gas, mercury, aldehyde, ammonia)
Warranty	Limited two-year warranty from date of shipment on defects due to materials or workmanship.



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