

# HighSmoke™ 2400

## Specifications



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Designed for applications with higher inlet concentrations up to 150 mg/m<sup>3</sup>. The HS-2400 is ideal for demanding processes such as die casting, cold heading, high-speed grinding & machining, and heavy smoke loads. This unit can be ducted to multiple machines or single machines based on airflow requirement. Application accessories include automatic pump packages, VFD, spray systems, and fire suppression packages.

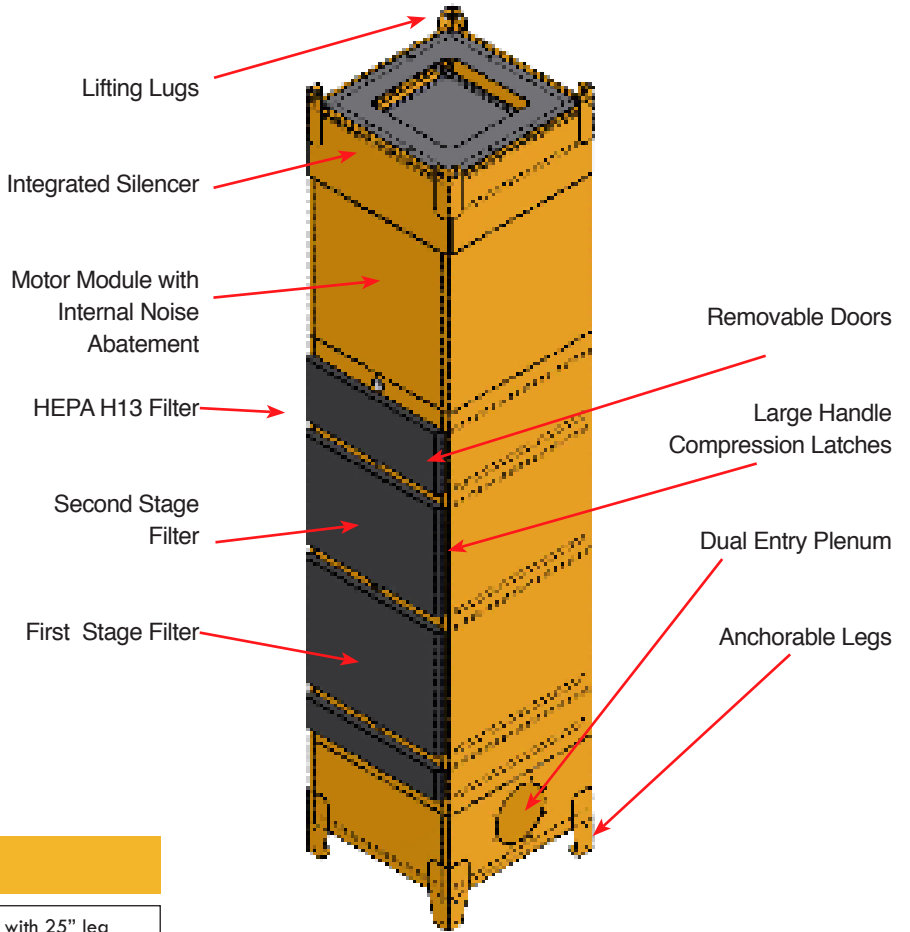
**Air Flow:** 2,400CFM for emulsion mist

**Motor Power:** 10HP

**Weight:** 2,400 lbs.

**Filters:** (1) Oversized deep fiber bed filters stage 1, (1) oversized deep fiber bed filters stage 2, and (1) HEPA final safety filter

**Filter Media:** (2) oversized deep fiber bed filters and (1) oversized final 99.995% HEPA safety filter



### Ergonomics

- Easy access controls and display per OSHA specifications
- Low maintenance requirements
- Integrated Silencer, Quiet enough for normal conversations
- Removable filter doors with lift off hinges and keyless / tool-less access

### Green Features

- Longest filter life in the industry
- Cleanest Air in the industry, fiber bed filter design combined with H13 HEPA filtration cleans the air beyond OSHA standards
- Powder Coating has no VOCs or off gasing
- 100% Recycled Steel
- True air cleaning means no ventilation to the outside
- Economizer Option: automatic starting and shut down feature
- Standard premium efficiency motor
- Variable Frequency Drive (VFD) Option: reduced power consumption with integrated soft starting feature
- Maximum efficiency is achieved through proper air speed control using the Variable Frequency Drive
- Optional return pump for automatic lubricant recycling

### Options

- Return pumping system with 25" leg extensions
- Custom color powder coating finish
- Central control panel
- Variable frequency drive
- NEMA 12 Electrical Enclosure
- Metal mesh pre-filter

### Blower & Motor

- Blower: Backward inclined, air foil high efficiency plug type
- Direct drive, no belts or chains
- Three phase or single phase input power  
 3PH: 208V (24A), 230V (22A), 460V (11A)  
 1PH: 120V (80A), 208V (44A), 230V (40A)  
 Other voltages available
- 1-10 HP fan
- 3,450 RPM motor
- Air volume of 2400 CFM



**True Fiber Bed Technology.** Health and safety are the main reasons to have a mist filtration system. Fiber bed technology allows the mist to condense on the fibers of the filters and form micro-droplets. These micro-droplets grow until the liquid has condensed into a large enough droplet to drip off the filters and drain to the bottom of the plenum and reservoir areas. This keeps the filters from clogging and allows the system to operate for extremely long times without maintenance. The key to keeping this system operating is air flow rates. By constantly measuring the air speed through the filters, the optional Variable Frequency Drive (VFD) is able to keep the air speed at peak efficiency for maximum air cleaning with the minimum power consumption.