Model 450 Mounted Sentry with Outlet Plenum

Model # SS-450-MSP

The Model 450 Mounted Sentry with Outlet Plenum primarily exhausts filtered air to a remote location but can also be utilized to create a positive-pressure environment. The 12” diameter exhaust collar allows filtered air to be exhausted outside, or into the facility’s central exhaust system or ductwork. When combined with HEPA or ULPA filtration, this unit can be utilized to create positive-pressure to provide clean airflow to the enclosure or create a compact clean room. Also, this system has the option of remaining ductless to recirculate filtered air back into the immediate area.

Typical fume control applications for this unit include laser marking, printing fumes, soldering fumes, fume/vapor source capture, pharmaceutical powder control, chemical fume exhaust, enclosed machinery mounting, and many other applications that produce particulate, smoke, dust, and fumes.

Positive-pressure applications include hard drive restoration, computer and electronics repairs, sterile assembly, medical device manufacturing, cleaning optics and lasers, stem cell therapy, tissue culturing, and more applications that require a clean room environment.

High-quality filter media for this unit depends on the application, but typically includes HEPA filters [up to 99.97% efficiency on particles 0.3 microns and larger], ULPA filters [up to 99.9995% efficiency on particles 0.12 microns and larger], ASHRAE filters [up to 95% efficiency on particles 0.5 microns and larger], activated carbon, and specialty-blended filtration media [i.e. acid gas, mercury, aldehyde, and ammonia]. The Mounted Sentry with Outlet Plenum allows multiple filter media to be housed inside the filter chamber for applications that emit both particulates and fumes.

The Mounted Sentry is available in three smaller models [SS-200-MSP, SS-300-MSP, & SS-400-MSP], and one model without the outlet plenum [SS-450-MS].

Product Features

- **Includes:** Variable speed controller (115V only), ON/OFF toggle switch (220V only) and mounting brackets
- 12” exhaust collar plenum
- Quiet, reliable, low maintenance operation
- Sturdy construction
- Simple, quick “no tool” filter change
- Long filter life
- Attractive appearance
- **Optional:** Magnehelic Gage

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# Product Specifications

| **Base Unit Dimensions** | **Length:** 22.5” (includes control box)  
**Width:** 22” (includes mounting brackets)  
**Height:** 25” (includes inlet & outlet collar) |
<table>
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<tbody>
<tr>
<td><strong>Outlet Plenum Dimensions</strong></td>
<td>12” diameter</td>
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<tr>
<td><strong>Inlet Configuration</strong></td>
<td>6” or 10” diameter</td>
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<tr>
<td><strong>Cabinet Material</strong></td>
<td>16 Ga. carbon steel</td>
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<td><strong>Weight (approximately)</strong></td>
<td>62 - 112 lbs.</td>
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| **Air Volume (approximately)** | **High** — up to 950 CFM  
**Low** — down to 50 CFM |
| **Electrical** | 115/1/60, 10.7 amps  
220/1/50, 5.35 amps  
8’ grounded power cord with NEMA 5-15P plug |
| **Sound Level (High at 3’ from inlet)** | Approx. 72 dba |

**Main Filter Options**  
*Depending on the Application:*  
- **HEPA** [up to 99.97% efficiency on particles 0.3 microns and larger]  
- **ASHRAE** [up to 95% efficiency on particles 0.5 microns and larger]  
- **ULPA** [up to 99.9995% efficiency on particles 0.12 microns and larger]  
- **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.  
Limited six-month warranty on fan/motor assembly

**Patent #**  
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Dimensions are approximate