Product Data & Submittal Sheet
**GENERAL DESCRIPTION**
- 3-speed switch (low, medium, high)
- 1/4 HP permanent split capacitor motor
- Internal baffling plate and diffuser panel provides quiet uniform air flow across the filter face
- Permanently-lubricated bearings
- Forward-curved blower wheel, factory balanced
- 1/4-20 thread holes on corners for guy-wire suspension
- FDA-approved Acrylic Urethane sealant
- MERV 7 Pre-filter, 20” x 20” x 1” – 30% ASHRAE rated
- Low-profile design is ideal for cleanrooms with limited ceiling space
- Micro-glass filter
- Fire retardant phosphorus free polyurethane sealant
- UL 507 Listed with standard UL 900 filters
- Tested to IEST recommended standards
- Room-Side Replaceable (RSR) filter models feature gel-sealed filter to seat against a knife-edge on the fan housing
- RSR models feature easy-open clips for fast filter replacement from the room side without breaching the cleanroom ceiling

**OPTIONAL ACCESSORIES**
- Challenge port kit
- Power plug adapter
- Eyebolt package
- Stainless surface mount frame adapter
- Filter replacement alarm
- Pre-filter safety cover, for CE conformance
- Control panel
- Ionizing bar
- Replacement filter
- 12” ducted inlet connection

**PRODUCT DIMENSIONS**

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Active Filter Area (sq. ft.)</th>
<th>W (in)</th>
<th>L (in)</th>
<th>H (in)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2’ x 4’</td>
<td>7.1</td>
<td>23.63”</td>
<td>47.56”</td>
<td>12.60”</td>
<td>71</td>
</tr>
<tr>
<td>2’ x 4’ (RSR)</td>
<td>7.2</td>
<td>23.63”</td>
<td>47.63”</td>
<td>14.66”</td>
<td>71</td>
</tr>
<tr>
<td>2’ x 3’</td>
<td>5.2</td>
<td>23.63”</td>
<td>35.56”</td>
<td>12.60”</td>
<td>53</td>
</tr>
<tr>
<td>2’ x 3’ (RSR)</td>
<td>5.3</td>
<td>23.63”</td>
<td>35.63”</td>
<td>14.66”</td>
<td>53</td>
</tr>
<tr>
<td>2’ x 2’</td>
<td>3.4</td>
<td>23.63”</td>
<td>23.56”</td>
<td>12.60”</td>
<td>44</td>
</tr>
<tr>
<td>2’ x 2’ (RSR)</td>
<td>3.5</td>
<td>23.63”</td>
<td>23.63”</td>
<td>14.66”</td>
<td>44</td>
</tr>
</tbody>
</table>

**BASIC UNIT CONFIGURATION**

**Unit Size:**
- 2’ x 2’
- 2’ x 3’
- 2’ x 4’

**Unit Construction:**
- White powder coated steel housing
- Aluminum filter screen and frame
- All-304 stainless steel BioSafe® housing, baffle plate, filter face grille, filter frame and impeller

**Filter Type:**
- HEPA (99.99% @ 0.3 microns)
- ULPA (99.9995% @ 0.12 microns)

**Filter Replacement Access:**
- Top access
- Room side replaceable access

**Motor Type:**
- 120V / 60Hz / 1 Phase; FLA = 3.8
- 220V / 60Hz / 1 Phase; FLA = 3.8
## WHISPERFLOW® FFU PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Sound (dB) @90FPM</th>
<th>AIR FLOW (CFM)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HIGH</td>
<td>MED</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>HEPA</td>
<td>49</td>
<td>800</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>HEPA (RSR)</td>
<td>49</td>
<td>800</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>ULPA</td>
<td>49</td>
<td>660</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>ULPA (RSR)</td>
<td>49</td>
<td>660</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>HEPA</td>
<td>49</td>
<td>675</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>HEPA (RSR)</td>
<td>49</td>
<td>600</td>
</tr>
<tr>
<td>2' x 2'</td>
<td>HEPA</td>
<td>49</td>
<td>450</td>
</tr>
<tr>
<td>2' x 2'</td>
<td>HEPA (RSR)</td>
<td>49</td>
<td>360</td>
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</table>

## WHISPERFLOW® FFU ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Motor HP</th>
<th>Voltage</th>
<th>Full Load Amps</th>
<th>Frequency (Hz)</th>
<th>Power Consumption (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HIGH</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>HEPA</td>
<td>1/4</td>
<td>120</td>
<td>3.8</td>
<td>60</td>
<td>420</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>HEPA</td>
<td>1/4</td>
<td>208-230/240</td>
<td>1.6/1.8</td>
<td>60/50</td>
<td>380</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>HEPA (RSR)</td>
<td>1/4</td>
<td>120</td>
<td>3.8</td>
<td>60</td>
<td>420</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>HEPA (RSR)</td>
<td>1/4</td>
<td>208-230/240</td>
<td>1.6/1.8</td>
<td>60/50</td>
<td>380</td>
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<tr>
<td>2' x 4'</td>
<td>ULPA</td>
<td>1/4</td>
<td>120</td>
<td>3.8</td>
<td>60</td>
<td>440</td>
</tr>
<tr>
<td>2' x 4'</td>
<td>ULPA (RSR)</td>
<td>1/4</td>
<td>120</td>
<td>3.8</td>
<td>60</td>
<td>440</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>HEPA</td>
<td>1/4</td>
<td>120</td>
<td>3.8</td>
<td>60</td>
<td>330</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>HEPA (RSR)</td>
<td>1/4</td>
<td>208-230/240</td>
<td>1.6/1.8</td>
<td>50/60</td>
<td>300</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>HEPA (RSR)</td>
<td>1/4</td>
<td>120</td>
<td>3.8</td>
<td>60</td>
<td>310</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>HEPA (RSR)</td>
<td>1/4</td>
<td>208-230/240</td>
<td>1.6/1.8</td>
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<td>300</td>
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<td>230</td>
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<td>50/60</td>
<td>230</td>
</tr>
</tbody>
</table>

- Notes: Performance tested in accordance with the (ANSI/AMCA 210-07), (ANSI/ASHRAE 51-07) test standards for Certified Aerodynamic Performance Rating.
- Sound levels were measured with unit installed in a gasketed ceiling, in a standard room. Sound levels in dB were measured at a distance of 12 inches from the filter face, with the unit set to produce 90 fpm average face velocity. (Note that data is for a clean filter only. If fan speed is increased to compensate for filter loading the noise level will increase.)
- The unit set to produce 90 fpm average face velocity.
- All data is based on a unit with a 1” pre-filter and clean filter. Results will vary depending on filter media and ducting used.
- 90 fpm values are based on active filter face area.
- Heat Gain: BTU = Watts x 3.413
- Units tested 2019
**Smart® WhisperFlow® Fan Filter Units**

**GENERAL DESCRIPTION**
- Electronically commutated (EC) brushless motor with internal microprocessor
- Can be incorporated into Building Management Systems to allow remote monitoring and control.
- MODBUS® networking control card with closed-loop control capability that supports air pressure, air flow, and particle count sensors.
- Motor control panel includes diagnostic indicator lights, manual speed adjustment, test probe jacks, CAT5e ports, control mode switch, and MODBUS® address DIP switch bank
- EC motor offers high performance, low energy consumption & low noise levels (40 dB)
- Internal baffling plate and diffuser panel provides quiet uniform air flow across the filter face
- Forward-curved blower wheel, factory balanced
- 1/4-20 thread holes on corners for guy-wire suspension
- FDA-approved Acrylic Urethane sealant
- MERV 7 Pre-filter, 30% ASHRAE rated
- Low-profile design is ideal for cleanrooms with limited ceiling space
- Micro-glass filter with fire retardant phosphorus free
- UL 507 Listed with standard UL 900 filters
- Tested to IEST recommended standards
- Room-Side Replaceable (RSR) filter models feature gel-sealed filter to seat against a knife-edge on the fan housing
- RSR models feature easy-open clips for fast filter replacement from the room side without breaching the cleanroom ceiling

**BASIC UNIT CONFIGURATION**

**Unit Size:**
- 2’ x 2’
- 2’ x 3’
- 2’ x 4’

**Unit Construction:**
- White powder coated steel housing
- Aluminum filter screen and frame
- All-304 stainless steel BioSafe® housing, baffle plate, filter face grille, filter frame and impeller

**Filter Type:**
- HEPA (99.99% @ 0.3 microns)
- ULPA (99.9995% @ 0.12 microns)

**Filter Replacement Access:**
- Top access
- Room side replaceable access

**Motor Type:**
- 115/230V / 50&60Hz / 1 Phase; FLA = 4.1/2.8

**PRODUCT DIMENSIONS**

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Active Filter Area (sq. ft.)</th>
<th>W (in)</th>
<th>L (in)</th>
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<th>Weight (lbs.)</th>
</tr>
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<tr>
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<tr>
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<td>44</td>
</tr>
</tbody>
</table>

**PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Max CFM</th>
<th>Watts @ Max CFM</th>
<th>Watts @ 90 FPM</th>
<th>Sound (dB.) @ 90 FPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2’ x 4’</td>
<td>HEPA</td>
<td>900</td>
<td>350</td>
<td>180</td>
<td>40</td>
</tr>
<tr>
<td>2’ x 4’ (RSR)</td>
<td>HEPA</td>
<td>900</td>
<td>350</td>
<td>170</td>
<td>40</td>
</tr>
<tr>
<td>2’ x 3’</td>
<td>HEPA</td>
<td>780</td>
<td>325</td>
<td>110</td>
<td>40</td>
</tr>
<tr>
<td>2’ x 3’ (RSR)</td>
<td>HEPA</td>
<td>780</td>
<td>325</td>
<td>80</td>
<td>40</td>
</tr>
<tr>
<td>2’ x 2’</td>
<td>HEPA</td>
<td>475</td>
<td>225</td>
<td>100</td>
<td>40</td>
</tr>
<tr>
<td>2’ x 2’ (RSR)</td>
<td>HEPA</td>
<td>400</td>
<td>130</td>
<td>70</td>
<td>40</td>
</tr>
</tbody>
</table>

- Notes: Performance tested in accordance with the (ANSI/AMCA 210-07), (ANSI/ASHRAE 51-07) test standards for Certified Aerodynamic Performance Rating.
- Sound levels were measured with unit installed in a gasketed ceiling, in a standard room. Sound levels in dB were measured at a distance of 12 inches from the filter face, with the unit set to produce 90 fpm average face velocity. (Note that data is for a clean filter only. If fan speed is increased to compensate for filter loading the noise level will increase.)
- All data is based on a unit with a 1" pre-filter and clean filter. Results will vary depending on filter media and ducting used.
- 90 fpm values are based on active filter face area.
- Heat Gain: BTU = Watts x 3.413

**OPTIONAL ACCESSORIES**
- Challenge port kit
- Power plug adapter
- Eye bolt package
- Replacement filter
- 12” ducted inlet connection

- Stainless surface mount frame adapter
- Filter replacement alarm
- Pre-filter safety cover, for CE conformance
- Control panel
- Ionizing bar
Product Data & Submittal Sheet

Explosion-Proof Fan Filter Units

GENERAL DESCRIPTION
• Proper installation of explosion proof equipment is critical to maintaining the explosion-proof protection aspects of the system. All wiring for explosion proof systems should be done in the field per local code by a licensed electrician.
• Explosion-proof motor meets NEC requirement for Class I Group C&D, Class II Group F&G, Division 1 hazardous locations
• Includes FDA-approved silicone sealant (specify acrylic urethane or other required sealant type when FFU is ordered)
• All wiring embedded in filled, rigid conduit in accordance with Class I/II requirements
• 1/4HP, 1140 RPM, direct-drive fan-cooled motor
• A grounding wire connects the body of the FFU to a metal wireframe embedded in the pre-filter.
• Internal baffling plates and diffuser panel provide uniform air speed across the filter face, ensuring laminar airflow
• Sound level is approximately 49 dBA, at average air flow velocity of 90 FPM (0.46 m/s).
• 1/4-20 thread holes on corners for guy-wire suspension
• FDA-approved Acrylic Urethane sealant
• MERV 7 Pre-filter, 20" x 20" x 1" – 30% ASHRAE rated
• Low-profile design is ideal for cleanrooms with limited ceiling space
• Micro-glass filter
• Fire retardant phosphorus free polyurethane sealant
• UL 507 Listed with standard UL 900 filters
• Tested to IEST recommended standards
• Room-Side Replaceable (RSR) filter models feature gel-sealed filter to seat against a knife-edge on the fan housing
• RSR models feature easy-open clips for fast filter replacement from the room side without breaching the cleanroom ceiling

OPTIONAL ACCESSORIES
- Challenge port kit
- Eye bolt package
- Stainless surface mount frame adapter
- Pre-filter safety cover, for CE conformance
- Replacement filter
- 12" ducted inlet connection

BASIC UNIT CONFIGURATION
Unit Size:
- 2’ x 2’
- 2’ x 3’
- 2’ x 4’

Unit Construction:
- All-304 stainless steel BioSafe® housing, baffle plate, filter face grille, filter frame and impeller

Filter Type:
- HEPA (99.99% @ 0.3 microns)
- ULPA (99.9995% @ 0.12 microns)

Filter Replacement Access:
- Top access
- Room side replaceable access

Motor Type:
- 120V/240V / 60Hz / 1 Phase; FLA = 6.8
Reverse Flow WhisperFlow® Fan Filter Units

GENERAL DESCRIPTION
• Removes submicron particles for safe air release into cleanroom or laboratory
• Ideal for containing dust generated during maintenance or construction
• Applications: enclosures for cleanroom renovations, equipment repair
• 3-speed switch (low, medium, high)
• 1/4 HP permanent split capacitor motor
• Internal baffling plate and diffuser panel provides quiet uniform air flow across the filter face
• Permanently-lubricated bearings
• Forward curved blower wheel, factory balanced
• 1/4-20 thread holes on corners for guy-wire suspension
• FDA-approved Acrylic Urethane sealant
• MERV 7 Pre-filter, 20” x 20” x 1” – 30% ASHRAE rated
• Low-profile design is ideal for cleanrooms with limited ceiling space
• Micro-glass filter
• Fire retardant phosphorus free polyurethane sealant
• UL 507 Listed with standard UL 900 filters
• Tested to IEST recommended standards
• Ducted units include a duct collar adapter plenum over exhaust filter face

OPTIONAL ACCESSORIES
- Challenge port kit
- Power plug adapter
- Eye bolt package
- Stainless surface mount frame adapter
- Filter replacement alarm
- Control panel
- Ionizing bar
- Replacement filter
- Control panel with night mode switch and power distribution modules

PRODUCT DIMENSIONS

<table>
<thead>
<tr>
<th>Nominal Unit</th>
<th>W (in)</th>
<th>L (in)</th>
<th>H (in)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 2</td>
<td>23.63&quot;</td>
<td>23.63&quot;</td>
<td>12.60&quot;</td>
<td>44</td>
</tr>
<tr>
<td>2 x 3</td>
<td>23.63&quot;</td>
<td>35.56&quot;</td>
<td>12.60&quot;</td>
<td>53</td>
</tr>
<tr>
<td>2 x 4 (Ducted)</td>
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<td>18.85&quot;</td>
<td>70</td>
</tr>
<tr>
<td>2 x 2 (Ducted)</td>
<td>23.63&quot;</td>
<td>23.56&quot;</td>
<td>18.85&quot;</td>
<td>50</td>
</tr>
</tbody>
</table>

BASIC UNIT CONFIGURATION

Unit Size:
- 2’ x 2’
- 2’ x 3’
- 2’ x 4’

Unit Construction:
- White powder coated steel housing
- Aluminum filter screen and frame
- All-304 stainless steel BioSafe® housing, baffle plate, filter face grille, filter frame and impeller

Filter Type:
- HEPA (99.99% @ 0.3 microns)
- ULPA (99.995% @ 0.12 microns)

Filter Replacement Access:
- Top access

Motor Type:
- 120/240V / 50&60Hz / 1 Phase; FLA = 4.1/2.8

Ducted or Ductless:
- Ducted
- Ductless
# Reverse Flow WhisperFlow® Fan Filter Units

## Reverse Flow WhisperFlow® Performance Data

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Sound (dB) @90FPM</th>
<th>Air Flow (CFM)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HIGH</td>
<td>MED</td>
</tr>
<tr>
<td>2’ x 4’</td>
<td>HEPA</td>
<td>49</td>
<td>800</td>
</tr>
<tr>
<td>2’ x 4’</td>
<td>ULPA</td>
<td>49</td>
<td>660</td>
</tr>
<tr>
<td>2’ x 3’</td>
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<td>49</td>
<td>675</td>
</tr>
<tr>
<td>2’ x 2’</td>
<td>HEPA</td>
<td>49</td>
<td>450</td>
</tr>
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</table>

## Reverse Flow WhisperFlow® FFU Electrical Data

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Motor HP</th>
<th>Voltage</th>
<th>Full Load Amps</th>
<th>Frequency (Hz)</th>
<th>Power Consumption (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2’ x 4’</td>
<td>HEPA</td>
<td>1/4</td>
<td>120</td>
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<td>2’ x 4’</td>
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<td>ULPA</td>
<td>1/4</td>
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<td>440</td>
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<td>208-230/240</td>
<td>1.6/1.8</td>
<td>50/60</td>
<td>230</td>
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</table>

- Notes: Performance tested in accordance with the (ANSI/AMCA 210-07), (ANSI/ASHRAE 51-07) test standards for Certified Aerodynamic Performance Rating.
- Sound levels were measured with unit installed in a gasketed ceiling, in a standard room. Sound levels in dB were measured at a distance of 12 inches from the filter face, with the unit set to produce 90 fpm average face velocity. (Note that data is for a clean filter only. If fan speed is increased to compensate for filter loading the noise level will increase.)
- The unit set to produce 90 fpm average face velocity.
- All data is based on a unit with a 1” pre-filter and clean filter. Results will vary depending on filter media and ducting used.
- 90 fpm values are based on active filter face area.
- Heat Gain: BTU = Watts x 3.413
- Units tested 2019
Smart® Reverse Flow WhisperFlow® Fan Filter Units

GENERAL DESCRIPTION
- Removes submicron particles generated inside a cleanroom or equipment enclosure to allow safe air release into cleanroom or laboratory.
- Electrically commutated, high-efficiency EC motor meets low-energy power requirements.
- Ideal for containing dust generated during maintenance or construction inside a classified space.
- Applications: enclosures for cleanroom renovations, equipment repair.
- Electronically commutated (EC) brushless motor with internal microprocessor.
- Can be incorporated into Building Management Systems to allow remote monitoring and control.
- MODBUS® networking control card with closed-loop control capability that supports air pressure, airflow, and particle count sensors.
- Motor control panel includes diagnostic indicator lights, manual speed adjustment, test probe jacks, CAT5e ports, control mode switch, and MODBUS® address DIP switch bank.
- EC motor offers high performance, low energy consumption & low noise levels (40 dB).
- Internal baffling plate and diffuser panel provides quiet uniform air flow across the filter face.
- Forward-curved blower wheel, factory balanced.
- 1/4-20 thread holes on corners for guy-wire suspension.
- FDA-approved Acrylic Urethane sealant.
- MERV 7 Pre-filter, 30% ASHRAE rated.
- Low-profile design is ideal for cleanrooms with limited ceiling space.
- Micro-glass filter with fire retardant phosphorus free.
- UL 507 Listed with standard UL 900 filters.
- Tested to IEST recommended standards.
- Ducted units include a duct collar adapter plenum over exhaust filter face.

BASIC UNIT CONFIGURATION
- Unit Size:
  - 2’ x 2’
  - 2’ x 3’
  - 2’ x 4’

- Unit Construction:
  - White powder coated steel housing
  - Aluminum filter screen and frame
  - All-304 stainless steel BioSafe® housing, baffle plate, filter face grille, filter frame and impeller.

- Filter Type:
  - HEPA (99.99% @ 0.3 microns)
  - ULPA (99.9995% @ 0.12 microns)

- Filter Replacement Access:
  - Top access

- Motor Type:
  - 120/240V / 50&60Hz / 1 Phase; FLA = 4.1/2.8

- Ducted or Ductless:
  - Ducted
  - Ductless

PRODUCT DIMENSIONS

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>W (in)</th>
<th>L (in)</th>
<th>H (in)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2’ x 2’</td>
<td>23.63</td>
<td>23.63</td>
<td>12.60</td>
<td>44</td>
</tr>
<tr>
<td>2’ x 3’</td>
<td>23.63</td>
<td>35.56</td>
<td>12.60</td>
<td>53</td>
</tr>
<tr>
<td>2’ x 4’</td>
<td>23.63</td>
<td>47.56</td>
<td>12.60</td>
<td>71</td>
</tr>
<tr>
<td>3’ x 2’ (Ducted)</td>
<td>23.63</td>
<td>23.56</td>
<td>18.85</td>
<td>50</td>
</tr>
<tr>
<td>3’ x 3’ (Ducted)</td>
<td>23.63</td>
<td>35.56</td>
<td>18.85</td>
<td>70</td>
</tr>
<tr>
<td>3’ x 4’ (Ducted)</td>
<td>23.63</td>
<td>47.56</td>
<td>18.85</td>
<td>91</td>
</tr>
</tbody>
</table>

PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Max CFM</th>
<th>Watts @ Max CFM</th>
<th>Watts @ 90 FPM</th>
<th>Sound (dB) @ 90 FPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2’ x 2’</td>
<td>HEPA</td>
<td>900</td>
<td>350</td>
<td>180</td>
<td>40</td>
</tr>
<tr>
<td>2’ x 2’ (Ducted)</td>
<td>HEPA</td>
<td>780</td>
<td>325</td>
<td>110</td>
<td>40</td>
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<td>2’ x 2’ (Ducted)</td>
<td>HEPA</td>
<td>475</td>
<td>225</td>
<td>100</td>
<td>40</td>
</tr>
</tbody>
</table>

- Notes: Performance tested in accordance with the (ANSI/AMCA 210-07), (ANSI/ASHRAE 51-07) test standards for Certified Aerodynamic Performance Rating.
- Sound levels were measured with unit installed in a gasketed ceiling, in a standard room. Sound levels in dB were measured at a distance of 12 inches from the filter face, with the unit set to produce 90 fpm average face velocity. (Note that data is for a clean filter only. If fan speed is increased to compensate for filter loading the noise level will increase.)
- All data is based on a unit with a 1” pre-filter and clean filter. Results will vary depending on filter media and ducting used.
- 90 fpm values are based on active filter face area.
- Heat Gain: BTU = Watts x 3.413

OPTIONAL ACCESSORIES

- Challenge port kit
- Power plug adapter
- Eye bolt package
- Replacement filter
- Stainless surface mount frame adapter
- Filter replacement alarm
- Control panel
- Ionizing bar
Filtered Laminar Flow Diffuser Modules

GENERAL DESCRIPTION
• Includes 12"-diameter x 2"H collar for connection to air supply; airflow performance depends on flow of supplied air handler
• Internal baffling plate and diffuser panel provides quiet uniform air flow across the filter face
• 1/4-20 thread holes on corners for guy-wire suspension
• FDA-approved Acrylic Urethane sealant
• Low-profile design is ideal for cleanrooms with limited ceiling space
• Micro-glass filter
• Fire retardant phosphorus free polyurethane sealant
• UL 507 Listed with standard UL 900 filters
• Room-Side Replaceable (RSR) filter models feature gel-sealed filter to seat against a knife-edge on the fan housing
• RSR models feature easy-open clips for fast filter replacement from the room side without breaching the cleanroom ceiling

BASIC UNIT CONFIGURATION
Unit Size:
- 2' x 2'
- 2' x 3'
- 2' x 4'

Unit Construction:
- White powder coated steel housing Aluminum filter screen and frame

Filter Type:
- HEPA (99.99% @ 0.3 microns)
- ULPA (99.9995% @ 0.12 microns)

Filter Replacement Access:
- Top access
- Room side replaceable access

OPTIONAL ACCESSORIES
- Challenge port kit
- Eye bolt package
- Stainless surface mount frame adapter
- Replacement filter

PRODUCT DIMENSIONS
<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Active Filter Area (sq. ft.)</th>
<th>W (in)</th>
<th>L (in)</th>
<th>H (in)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2' x 4'</td>
<td>7.1</td>
<td>23.63&quot;</td>
<td>47.56&quot;</td>
<td>9.17&quot;</td>
<td>65</td>
</tr>
<tr>
<td>2' x 4' (RSR)</td>
<td>7.2</td>
<td>23.63&quot;</td>
<td>47.63&quot;</td>
<td>11.5&quot;</td>
<td>68</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>5.2</td>
<td>23.63&quot;</td>
<td>35.56&quot;</td>
<td>9.17&quot;</td>
<td>47</td>
</tr>
<tr>
<td>2' x 3' (RSR)</td>
<td>5.3</td>
<td>23.63&quot;</td>
<td>35.63&quot;</td>
<td>11.5&quot;</td>
<td>50</td>
</tr>
<tr>
<td>2' x 2'</td>
<td>3.4</td>
<td>23.63&quot;</td>
<td>23.56&quot;</td>
<td>9.17&quot;</td>
<td>38</td>
</tr>
<tr>
<td>2' x 2' (RSR)</td>
<td>3.5</td>
<td>23.63&quot;</td>
<td>23.63&quot;</td>
<td>11.5&quot;</td>
<td>41</td>
</tr>
</tbody>
</table>
WhisperFlow® Portable HEPA Filtration System

GENERAL DESCRIPTION
The WhisperFlow® portable HEPA filtration system is a mobile, self-contained, hospital air purifier designed to easily convert any room to a negative pressure isolation room to meet OSHA and CDC TB guidelines.

Air filtration systems are crucial in the fight against illnesses such as SARS-CoV-2 virus (COVID-19). HEPA filters reduce the number of microscopic droplets and particles in the air that can carry pathogens, to improve cleanliness and safety of air in places it’s needed most.

For negative pressure, simply connect flexible ducting to the top exhaust port to direct exhaust airflow to a ventilation system. Ducting the outlet to a ventilation system creates a negative pressure environment isolation room, suitable for use with patients known or suspected of having infectious diseases.

For recirculation, room air and airborne contaminants are drawn through intake grille at the bottom, and purified air is discharged from the exhaust grille at the top to generate a sweeping, low-to high air circulation pattern to optimize clean breathing zone for patient and staff.

The filtration system’s powerful blower can deliver 800 CFM to provide a large number of room air changes per hour to minimize the spread of airborne diseases to patients and health care workers.

PRODUCT DIMENSIONS

<table>
<thead>
<tr>
<th>Active Filter Area (sq. ft.)</th>
<th>W (in)</th>
<th>L (in)</th>
<th>H (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1</td>
<td>28.5&quot;</td>
<td>18&quot;</td>
<td>59.5</td>
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</tbody>
</table>

PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Max CFM</th>
<th>Watts @ Max CFM</th>
<th>Watts @ 630 CFM</th>
<th>Sound (dB.) @ 630 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>350</td>
<td>180</td>
<td>43</td>
</tr>
</tbody>
</table>

FEATURES & BENEFITS
- Quiet, low vibration HEPA filter system; only 43 dBA measured 30 in. from unit
- Optional Internal UV-C lamp sterilizes inside filter face to help protect against bacteria, viruses, and mold
- Mobile, self-contained, hospital air purifier with small footprint easily rolls between rooms
- A filter back pressure gauge helps indicate when filter replacement is necessary
- A variable fan speed control dial simplifies air balancing

SPECIFICATIONS
- High Efficiency Particulate Air (HEPA) filter: 99.99% efficient at 0.3µm particle diameter
- 1/3 HP electronically commutative motor
- Electrical: 120V, 60Hz, 1 Phase, 3.8 FLA
- Permanently-lubricated bearings for long service life
- Forward-curved blower wheel, factory balanced
- FDA-approved Acrylic Urethane sealant
- MERV 7 Pre-filter, 20" x 20" x 1" – 30% ASHRAE rated
- Low-profile design is ideal for cleanrooms with limited ceiling space
- Micro-glass filter
- Fire retardant phosphorus free polyurethane sealant
- UL 507 Listed with standard UL 900 filters
- Tested to IEST recommended standards
Stainless Surface Mount Frame Adapters

CONTINUOUS WELDS ON ALL SEAMS

PRODUCT DIMENSIONS

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>W (in)</th>
<th>L (in)</th>
<th>H (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2' x 4'</td>
<td>24.00&quot;</td>
<td>51.12&quot;</td>
<td>1.5&quot;</td>
</tr>
<tr>
<td>2' x 3'</td>
<td>24.00&quot;</td>
<td>39.12&quot;</td>
<td>1.5&quot;</td>
</tr>
<tr>
<td>2' x 2'</td>
<td>24.00&quot;</td>
<td>27.12&quot;</td>
<td>1.5&quot;</td>
</tr>
</tbody>
</table>
## Room-side Replaceable Filters

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Frame Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2' x 4' (RSR)</td>
<td>HEPA</td>
<td>Stainless</td>
<td>6601-25-RS</td>
</tr>
<tr>
<td>2' x 3' (RSR)</td>
<td>HEPA</td>
<td>Stainless</td>
<td>6601-26-RS</td>
</tr>
<tr>
<td>2' x 2' (RSR)</td>
<td>HEPA</td>
<td>Stainless</td>
<td>6601-27-RS</td>
</tr>
<tr>
<td>2' x 4' (RSR)</td>
<td>ULPA</td>
<td>Stainless</td>
<td>6601-28-RS</td>
</tr>
<tr>
<td>2' x 3' (RSR)</td>
<td>ULPA</td>
<td>Stainless</td>
<td>6601-29-RS</td>
</tr>
<tr>
<td>2' x 2' (RSR)</td>
<td>ULPA</td>
<td>Stainless</td>
<td>6601-30-RS</td>
</tr>
<tr>
<td>2' x 4' (RSR)</td>
<td>HEPA</td>
<td>Aluminum</td>
<td>6601-25-R</td>
</tr>
<tr>
<td>2' x 3' (RSR)</td>
<td>HEPA</td>
<td>Aluminum</td>
<td>6601-26-R</td>
</tr>
<tr>
<td>2' x 2' (RSR)</td>
<td>HEPA</td>
<td>Aluminum</td>
<td>6601-27-R</td>
</tr>
<tr>
<td>2' x 4' (RSR)</td>
<td>ULPA</td>
<td>Aluminum</td>
<td>6601-28-R</td>
</tr>
<tr>
<td>2' x 3' (RSR)</td>
<td>ULPA</td>
<td>Aluminum</td>
<td>6601-29-R</td>
</tr>
<tr>
<td>2' x 2' (RSR)</td>
<td>ULPA</td>
<td>Aluminum</td>
<td>6601-30-R</td>
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</tbody>
</table>

## Top Side Replaceable Filters

<table>
<thead>
<tr>
<th>Nominal Unit Size (ft.)</th>
<th>Filter</th>
<th>Frame Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2' x 4' (Top Side Replaceable)</td>
<td>HEPA</td>
<td>Stainless</td>
<td>6601-25-S</td>
</tr>
<tr>
<td>2' x 3' (Top Side Replaceable)</td>
<td>HEPA</td>
<td>Stainless</td>
<td>6601-26-S</td>
</tr>
<tr>
<td>2' x 2' (Top Side Replaceable)</td>
<td>HEPA</td>
<td>Stainless</td>
<td>6601-27-S</td>
</tr>
<tr>
<td>2' x 4' (Top Side Replaceable)</td>
<td>ULPA</td>
<td>Stainless</td>
<td>6601-28-S</td>
</tr>
<tr>
<td>2' x 3' (Top Side Replaceable)</td>
<td>ULPA</td>
<td>Stainless</td>
<td>6601-29-S</td>
</tr>
<tr>
<td>2' x 2' (Top Side Replaceable)</td>
<td>ULPA</td>
<td>Stainless</td>
<td>6601-30-S</td>
</tr>
<tr>
<td>2' x 4' (Top Side Replaceable)</td>
<td>HEPA</td>
<td>Aluminum</td>
<td>6601-25</td>
</tr>
<tr>
<td>2' x 3' (Top Side Replaceable)</td>
<td>HEPA</td>
<td>Aluminum</td>
<td>6601-26</td>
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<tr>
<td>2' x 2' (Top Side Replaceable)</td>
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<td>Aluminum</td>
<td>6601-27</td>
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<tr>
<td>2' x 4' (Top Side Replaceable)</td>
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<td>6601-29</td>
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<td>2' x 2' (Top Side Replaceable)</td>
<td>ULPA</td>
<td>Aluminum</td>
<td>6601-30</td>
</tr>
</tbody>
</table>
WhisperFlow® Fan Filter Units

Pressure Drop vs. Face Velocity For Standard Filters

- HEPA, 99.99% @ 0.3 micron
- ULPA, 99.9995% @ MPPS (Most Penetrating Particle Size)

Pressure Drop vs. Face Velocity For Room Side Replaceable Filters

- HEPA, 99.99% @ 0.3 micron
- ULPA, 99.9995% @ MPPS (Most Penetrating Particle Size)