Filter Fan Plus

Air Flap Design
The Stego Filter Fan Plus series employs a new air flap design for the air outlet. The air flaps have less resistance to airflow than an exhaust filter, which allows the Filter Fan Plus system to achieve higher airflow while still preventing the ingress of contaminants. Curved air flaps react to small airflow volumes for maximum opening of flaps. Filter Fan Plus series fans are for indoor use only.

Ratchet Mounting
A ratchet mechanism is used for mounting, providing a high stability and tightness. No mounting screws needed. Prevents enclosure wall deformity when mounting. Solid locking ensures uniform seal.

Filter Fan Plus Models: FPI or FPO
FPI systems (airflow direction ‘in’) use a filter fan in the lower part of the enclosure, ensuring fresh air is fed into the enclosure. The air rises to the top of the enclosure, cooling the internal space and pushing the warm interior air through the exhaust grille near the top. This grille exhausts hot air more effectively, thanks to new air flap outlet technology.

In FPO systems (airflow direction ‘out’), the filter fan is located in the upper area of the enclosure to avoid heat buildups. The heat can be diverted quicker from the critical area. An intake grille with a filter in the lower part of the enclosure allows the colder air from the outside to enter.
Filter Fan Plus

Applications
Filter fans provide an optimum climate in enclosures with electrical/electronic components. The interior temperature of enclosures is reduced by channeling cooler filtered outside air into the enclosure, thus expelling heated internal air. The resulting air flow prevents formation of localized heat pockets and protects electronic components from overheating.

Features
- FPI (airflow in) or FPO (airflow out) models
- Air flap outlet technology
- IP54 dust and splash waterproof
- Easy filter change with access provided via the hinged cover
- Impact resistant
- UV light resistant according to UL 746C (F1)
- Flame retardant: UL94 V-0
- Low noise
- 115 and 230VAC models available
- 12, 24, and 48VDC models available
- (4) 6-position ratchet lever mount mechanism will accommodate wall thickness 0.039 - 0.157in (1 - 4mm)

Construction
- Fan body is light gray plastic polycarbonate
- FPI model has an intake filter fan and an exit grille with air flaps
- FPO model has an exit fan with air flaps and an intake grille with filter
- Poured-in-place polyurethane gasket for better seal
- Mounts using built-in ratchet mechanism; no screws needed. (Hardware provided for optional screw mounting. Hole markings for screw mounting are indicated on mounting frame.)

Standards
- All models: IP54, VDE, EAC, CE, UL Type 12 when using supplied filter.
- UL Recognized - file: E234324
Filter Fan Plus

3.62 x 3.62 inch Cutout Size
- Storage temperature: -40 to 158°F (-40 to 70°C)
- Operating temperature: -4 to 158°F (-20 to 70°C)
- Connection type: 2 stranded wires, 11.8” (300mm) long, AWG 22
- Service life:
  - AC - 52,500 hrs @ 104°F (40°C)
  - DC - 70,000 hrs @ 104°F (40°C)
- Average arrestance: 84% with provided G3 (coarse) filter
- Replacement filter mats
  - G3 (coarse): 086330-00
  - G4 (medium): 086270-00
  - M5 (fine): 086300-00

**Filter Fan Plus - FPI System**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
<th>Filter/ Air Flaps</th>
<th>Operating Voltage</th>
<th>Power Consumption (W)</th>
<th>Current Draw (mA)</th>
<th>Free Airflow (CFM)</th>
<th>Airflow with Grille &amp; Filters (CFM)</th>
<th>Max Static Pressure (Pa)</th>
<th>Sound Level (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>018700-30</td>
<td>$67.00</td>
<td>Enclosure fan</td>
<td>G3 filter</td>
<td>230VAC</td>
<td>12</td>
<td>52</td>
<td>11</td>
<td>7.7</td>
<td>42</td>
<td>39</td>
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<td>018701-30</td>
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<td>018702-30</td>
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<td>G3 filter</td>
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<td>2.7</td>
<td>113</td>
<td>13</td>
<td>9.4</td>
<td>42</td>
<td>49</td>
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<td>$76.00</td>
<td>Enclosure fan</td>
<td>G3 filter</td>
<td>12VDC</td>
<td>2.6</td>
<td>216</td>
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<td>36</td>
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<tr>
<td>018709-30</td>
<td>$67.00</td>
<td>Enclosure fan</td>
<td>G3 filter</td>
<td>115VAC</td>
<td>11</td>
<td>96</td>
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<td>43</td>
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<td>118700-00</td>
<td>$22.00</td>
<td>Exhaust grille</td>
<td>Air flaps</td>
<td></td>
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<td></td>
<td></td>
<td>FPI exhaust grille designed to be used with the FPI fans listed above only.</td>
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Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.

**Filter Fan Plus - FPO System**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
<th>Filter/ Air Flaps</th>
<th>Operating Voltage</th>
<th>Power Consumption (W)</th>
<th>Current Draw (mA)</th>
<th>Free Airflow (CFM)</th>
<th>Airflow with Grille &amp; Filters (CFM)</th>
<th>Max Static Pressure (Pa)</th>
<th>Sound Level (dB)</th>
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<tbody>
<tr>
<td>018800-00</td>
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<td>Air flaps</td>
<td>230VAC</td>
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<td>52</td>
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<td>018800-40</td>
<td>$67.00</td>
<td>Enclosure fan</td>
<td>G3 filter</td>
<td>230VAC</td>
<td>12</td>
<td>52</td>
<td>11</td>
<td>7.4</td>
<td>42</td>
<td>36</td>
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<tr>
<td>018801-00</td>
<td>$79.00</td>
<td>Enclosure fan</td>
<td>Air flaps</td>
<td>48VDC</td>
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<td>Air flaps</td>
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<td>018809-00</td>
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<td>Enclosure fan</td>
<td>Air flaps</td>
<td>115VAC</td>
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<td>Enclosure fan</td>
<td>G3 filter</td>
<td>115VAC</td>
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<td>96</td>
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<td>9.4</td>
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<td>FPO intake grille designed to be used with the FPO fans listed above only.</td>
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</tbody>
</table>

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.

See our website: www.AutomationDirect.com for complete engineering drawings.
## Filter Mats
- Synthetic fiber with progressive construction
- Temperature resistant to 212° F (100°C)
- Rating: G3 (coarse), G4 (medium), and G5 (fine)
- Self-extinguishing class F1
- Moisture resistant to 100% RH
- Reusable; can be cleaned with mild soap or vacuuming

## Features
- Filter media for enclosure fans
- Fine or medium density
- Fits 3.82 x 3.82, 4.92 x 4.92, 6.93 x 6.93, or 9.84 x 9.84 inch Filter Fan
- Fits 3.62 x 3.62, 4.88 x 4.88, 6.93 x 6.93, 8.78 x 8.78, and 11.46 x 11.46 inch Filter Fan Plus

## Applications
- Replacement filter mats for Stego series Filter Fan Plus, Filter Fan, and Stego series exhaust/ intake grilles

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### Replacement Filter Elements

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Dimensions HxW in (mm)</th>
<th>Use With Filter Fan Part Number</th>
<th>Use With Intake or Exhaust Grille Part Number</th>
<th>Filter Rating</th>
<th>Average Arrestance (Filtering Level)</th>
<th>Filter Density g/m²</th>
<th>Pieces per Package</th>
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</thead>
<tbody>
<tr>
<td>086330-00</td>
<td>$8.50</td>
<td>3.31 x 3.31 [84 x 84]</td>
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<td>086340-00</td>
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<td>118010-00 118210-00 118810-30</td>
<td>G3 (coarse)</td>
<td>84%</td>
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<td>5</td>
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<tr>
<td>086350-00</td>
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<td>018020-01 018020-02 018040-01 018720-30 018721-30 018722-30 018723-30 018729-30 018820-40 018829-40</td>
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## Replacement Filter Elements (continued)

<table>
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<tr>
<th>Part Number</th>
<th>Price</th>
<th>Dimensions HxW in (mm)</th>
<th>Use With Filter Fan Part Number</th>
<th>Use With Intake or Exhaust Grille Part Number</th>
<th>Filter Rating</th>
<th>Average Arrestance (Filtering Level)</th>
<th>Filter Density g/m²</th>
<th>Pieces per Package</th>
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<td>G4 (medium)</td>
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## Air Volume and Pressure Data for Upgraded Filter Mats

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<tr>
<th>Fan Part Number</th>
<th>Filter Mat Airflow (cfm)</th>
<th>Filter Mat Static Pressure (Pa)</th>
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<tbody>
<tr>
<td></td>
<td>G4 fan filter*</td>
<td><strong>G4 fan filter and exhaust filter</strong></td>
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<tr>
<td>018000-02</td>
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<td>018840-40</td>
<td>300</td>
<td>153</td>
</tr>
</tbody>
</table>

Notes: *Fan with filter and louver
**Fan with filter, louver, exhaust filter, and grille.
Part numbers not listed in this table have no test data available.
Enclosure Cooling – Selecting a Fan or Cooling Device

Fan selection

To select the proper size (CFM) fan for your forced air cooling solution, you need to determine the amount of heat to be removed (in watts) and determine the Delta T (Max. allowable internal enclosure temperature °F – Max. outside ambient temperature °F).

\[
\text{CFM} = \frac{3.17 \times P}{\text{Delta T} \degree F} \\
\text{Delta T} = \text{max. allowable internal enclosure temperature °F} - \text{max. outside ambient temperature °F}
\]

Stego offers an online Cooling Calculation Tool to help you calculate the required airflow rate for your application.

Air conditioner thermoelectric cooler and vortex cooler selection

To select the proper size air conditioner or vortex cooler, the worst-case conditions should be considered, but take care not to choose an oversized unit. There are two main factors in choosing an uninsulated metal NEMA rated enclosure located indoors:

- Internal heat load
- Heat load transfer

Internal Heat Load

Internal heat load is the heat generated by the components inside the enclosure. This can be determined by a few different methods. The preferred method is to add the maximum heat output specifications that the manufacturers list for all the equipment installed in the cabinet. This is typically given in Watts, so use the following conversion:

\[
\text{BTU per Hour} = \text{Watts} \times 3.413
\]

Example: The Watt-loss chart for the GS3 Drives shows that a GS3-2020 AC drive has a Watt-loss of 750 watts. Therefore,

\[
\begin{align*}
\text{BTU per Hour for GS3-2020} & = 750 \times 3.413 \\
& = 2559 \\
\end{align*}
\]

Heat Load Transfer

Heat load transfer is the heat lost (negative heat load transfer) or gained (positive heat load transfer) through the enclosure walls with the surrounding ambient air. This can be calculated by the following formula:

\[
\text{Heat load transfer (BTU/H)} = 1.25 \times \text{surface area (sq. ft.)} \times (\text{max. outside ambient air \degree F} - \text{max. allowable internal enclosure temperature \degree F}) \\
\text{Surface Area (sq. ft.)} = 2 \times (\text{H x W}) + (\text{H x D}) + (\text{W x D}) / 144 \text{ sq. inches} \\
\text{Note:} 1.25 \text{ is an industry standard constant for metal enclosures;} \\
0.62 \text{ should be used for plastic enclosures.}
\]

Once you have determined your Internal Heat Load and the Heat Load Transfer, you can choose the proper size unit by calculating the needed cooling capacity.

\[
\text{Cooling capacity (BTU/H)} = \text{Internal Heat Load} \pm \text{Heat Load Transfer}
\]

Fan Selection Example

A NEMA 12 Hubbell Wiegmann N12302412 enclosure (30” high x 24” wide x 12” deep) contains a GS3-2020 AC drive (20 HP 230 volt) that has a maximum allowable operating temperature of 104°F and is located in a warehouse that has a maximum outside ambient air temperature of 92°F.

Power to be dissipated is stated in the specifications of the GS3-2020 and is found to be 750 watts, so \( P = 750 \text{ watts} \)

\[
\begin{align*}
\text{Delta T} & = 104°F - 92°F \\
& = 12°F \\
\text{CFM} & = \frac{3.17 \times 750 \text{ watts}}{12°F} \\
& = 198
\end{align*}
\]

Choose a Stego 018740-30 230VAC FPI filter fan with a 118740-00 exhaust grille to provide 220 CFM or a Stego 018840-00 230VAC FPO filter fan with a 118840-30 intake grille to provide 243 CFM.

Air Conditioner Device Selection Example

A NEMA 12 Hubbell Wiegmann N12302412 enclosure (30” high x 24” wide x 12” deep) contains a GS3-4030 AC drive (30 HP 460 volt) that has a maximum allowable operating temperature of 104°F and is located in a warehouse that has a maximum outside ambient air temperature of 115°F.

Power to be dissipated is stated in the specifications of the GS3-4030 and is found to be 1290 watts.

\[
\begin{align*}
\text{Internal heat load:} \\
\text{BTU per Hour} & = 1290 \times 3.413 \\
& = 4403 \text{ BTU/H} \\
\end{align*}
\]

\[
\begin{align*}
\text{Heat load transfer:} \\
\text{Heat load transfer (BTU/H)} & = 1.25 \times 19 \text{ sq. ft.} \times (115°F - 104°F) \\
& = 261.25 \text{ BTU/H} \\
\text{Heat load transfer (BTU/H)} & = 261.25 \text{ BTU/H} \\
\end{align*}
\]

\[
\begin{align*}
\text{Cooling capacity:} \\
\text{Cooling capacity (BTU/H)} & = 4403 \text{ BTU/H} + 261.25 \text{ BTU/H} \\
& = 4664.25 \text{ BTU/H} \\
\end{align*}
\]

In this example, you are able to determine that a 5000 BTU/H unit is needed. Select a TA10-050-16-12 Stratus air conditioner.

Note: The same calculation method is used for sizing thermoelectric coolers and Stratus vortex coolers. However, in this example the cooling requirements exceed the maximum capacity of the largest available vortex or thermoelectric cooler. If the example application required the use of a vortex or thermoelectric cooler instead of an air conditioner, two (2) TV35-025-4X units or ten (10) 3052303 thermoelectric units would be needed.
Hose-Proof Hood for Stego Fans

Features
- Stainless steel hood
- Food-safe silicone seal
- Increase of protection class to UL Type 4X
- Easy to clean
- Filter mat change from outside
- Impact-resistant
- Optional security feature to restrict unauthorized access (M6x1 security screw included)
- Weather resistant
- Versatile
- Protective grid
- Mounting screws provided

Applications
- Designed to increase the protection class and serve as a protective cover to filter fans, intake and exit filters.
- Used for protection against water projected by a hose and extreme climatic influences if located outdoors in industrial applications with harsh environmental conditions.
- Hood removes easily for cleaning and filter change without opening the enclosure.

Standards
- UL 4/4X when used with STEGO Filter Fan Plus and Filter Fans
- UL Recognized File No. E234324
- RoHS 2 compliant
- IP56

Applications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Stego Filter Fan Plus FPI/FPO Cutout Size</th>
<th>Stego Filter Fan Cutout Size</th>
<th>Dimensions (H x W x D)</th>
<th>Max. Covered Area (X x Y)</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>086700-00</td>
<td>$127.00</td>
<td>3.62 x 3.62 [92 x 92]</td>
<td>3.82 x 3.82 [97 x 97]</td>
<td>8.42 x 7.67 x 1.88 [214 x 195 x 48]</td>
<td>5.27 x 5.63 [134 x 143]</td>
<td>1.76</td>
</tr>
<tr>
<td>086710-00</td>
<td>$154.00</td>
<td>4.88 x 4.88 [124 x 124]</td>
<td>4.92 x 4.92 [125 x 125]</td>
<td>11.00 x 8.92 x 2.39 [280 x 226 x 61]</td>
<td>6.39 x 6.75 [162 x 171]</td>
<td>2.64</td>
</tr>
<tr>
<td>086730-00</td>
<td>$218.00</td>
<td>8.78 x 8.78 [223 x 223]</td>
<td>9.84 x 9.84 [250 x 250]</td>
<td>16.19 x 14.5 x 3.07 [411 x 368 x 78]</td>
<td>11.69 x 11.31 [297 x 287]</td>
<td>6.17</td>
</tr>
<tr>
<td>086740-00</td>
<td>$275.00</td>
<td>11.46 x 11.46 [291 x 291]</td>
<td>N/A</td>
<td>18.94 x 15.96 x 4.05 [481 x 405 x 103]</td>
<td>13.25 x 13.31 [337 x 338]</td>
<td>8.15</td>
</tr>
</tbody>
</table>

Notes: Dimensions in inches (millimeters).
None of the above models fit 018210-04 and 018210-02 outdoor filter fans.

Hose-Proof Hood Locking Mechanism

Please see our website www.AutomationDirect.com for complete engineering drawings.