PROTECTION AGAINST OVERHEATING

To protect installations from excessively high temperatures STEGO filter fans ensure efficient cooling by circulating air.
INNOVATIVE VENTILATING TECHNOLOGY FOR ENCLOSURES:
FILTER FAN PLUS COOLS WITH A ‘PLUS’ OF AIR

Optimum usage of space is always important in systems with electric or electronic components. Sophisticated enclosure applications often come with a high density of components. High temperatures within the enclosure may cause malfunctions if not addressed. With STEGO’s new Filter Fan Plus and its innovative air-flap outlet technology you are safe in the knowledge that sensitive components, in all kinds of applications, are safeguarded against overheating and malfunction.

NEW AIR-FLAP OUTLET TECHNOLOGY FOR ENHANCED AIRFLOW

The new air-flap outlet technology eliminates the need for the filter mat for the air outlet, enhancing in turn the exiting airflow. So, using the same cut-out in an enclosure wall more air can be exchanged. Leading to more efficient cooling of the application. Another advantage: The flaps stay closed and dirt stays out when the fan is not in operation.

SECURE AND STABLE: TOOL-FREE RATCHET MOUNT MECHANISM

The Filter Fan Plus is placed in the enclosure cut-out from the outside of the enclosure and mounted tool-free. By pressing the built-in ratchet braces the filter fan is pulled into the cabinet wall. The ratchet braces snap into place, giving the installer audible feedback that the filter fan is now installed securely. The ratchet mount is suitable for a wall thickness from 1 to 4 mm.

ONLY ONE FILTER MAT SAVES COSTS

Flaps instead of mats: In contrast to conventional systems the Filter Fan Plus only requires one filter mat. This reduces maintenance work and costs.

IP54 | UL TYPE 12 | NEMA 12 DUST AND SPLASH WATER PROTECTION

The new Filter Fan Plus protects against dust and splash water. Proven by successfully completed protection type tests carried-out by independent testing and certification agencies, like VDE and Underwriters Laboratories (UL).
IN OR OUT?
MORE AIRFLOW IN ANY CASE.

With its unique technology, the Filter Fan Plus achieves a more effective air circulation and offers a considerable plus in airflow. The result: A noticeable increase in cool air gets into the enclosure. At the same time, warm air is expelled faster and more effectively to the outside.

The Filter Fan Plus is available in two high performance systems, ensuring the right combination to suit every application.

**SYSTEM FPI**
AIRFLOW DIRECTION „IN“

This is the more common approach: a filter fan with filter mat is located in the lower part of the enclosure and draws air from the outside. The air rises to the top of the enclosure, cooling the internal space and pushing the warm interior air through the air outlet. Whereas this air outlet now pulls more effectively, thanks to our new air-flap outlet technology.

**SYSTEM FPO**
AIRFLOW DIRECTION „OUT“

In this alternative approach, where it may be necessary to expel heat build-up more directly from the upper part of the enclosure, we recommend a more active evacuation of the hot air. For this purpose the fan in combination with the effective flap technology is placed in the upper part of the cabinet. The heat can be diverted quicker from the critical area. An intake filter with mat is needed in the lower part of the enclosure to allow the colder air from the outside to enter.
Filter fans are used to provide an optimum climate in enclosures and cabinets with electrical/electronic components. The interior temperature of an enclosure can be reduced by channelling cooler filtered outside air into the enclosure thus expelling heated internal air. The resulting airflow prevents formation of localised hot pockets in installations and protects electronic components from overheating.

The Filter Fan Plus series uses a new air-flap outlet technology for the air outlet and thus reaches a high degree of airflow. A ratchet mechanism is used for mounting and provides high stability and tightness. Depending on the application there are two systems that are available – the FPI or FPO system. The FPI system is a standard installation with a filter fan in the lower part of the enclosure which ensures that fresh air is fed into the enclosure (airflow direction “In”). This system consists of a filter fan and exit filter. Whereas in the FPO system, the filter fan is located in the upper area of the enclosure to avoid heat buildups (airflow direction “Out”). The FPO system is composed of an intake filter and exit filter fan. The Filter Fan Plus series has been designed for indoor use.

**TECHNICAL DATA**

- Axial fan, ball bearing
  - service life L10 at +40 °C (+104 °F): min. 50,000 h
  - fan body aluminium, rotor metal

- Connection
  - 2 stranded wires, 300 mm

- Casing, hood, flaps
  - plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)

- Enclosure cut-out
  - 92 x 92+1 mm

- Mounting frame
  - 4 built-in ratchet braces for mounting (6 notches for wall thickness 1—4 mm).
  - Additional use of screws possible if needed.

- Filter mat
  - G3 acc. to DIN EN 779, average arrestance Aa 84 %

- Filter material
  - synthetic fibre with progressive construction, temperature resistant to +100 °C, self-extinguishing class F1, moisture resistant to 100 % RH, reusable

- Operating/Storage temperature
  - -40 to +70 °C (-40 to +158 °F)

- Operating/Storage humidity
  - max. 90 % RH (non-condensing)

- Protection type/Protection class
  - IP54 / I (earthed)

- Environmental rating UL/NEMA
  - UL TYPE 12 / NEMA 12

- Approvals
  - VDE, UL File No. E234324, EAC

- Note
  - other voltages on request

**AIRFLOW DIRECTION “IN”: FILTER FAN FPI 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depths in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01870.0-30</td>
<td>AC 230 V, 50/60 Hz</td>
<td>19 m³/h</td>
<td>13 m³/h</td>
<td>70 mA</td>
<td>12 W</td>
<td>39 db (A)</td>
<td>66 mm</td>
<td>0.6 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01870.9-30</td>
<td>AC 115 V, 50/60 Hz</td>
<td>23 m³/h</td>
<td>16 m³/h</td>
<td>115 mA</td>
<td>11 W</td>
<td>43 db (A)</td>
<td>66 mm</td>
<td>0.6 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION “IN”: EXIT FILTER FPI 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11870.0-00</td>
<td>25 mm</td>
<td>0.2 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>
### SYSTEM FPO

**Filter Fan FPO 018**

**Intake Filter FPO 118**

### AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01880.0-00</td>
<td>AC 230 V, 50/60 Hz</td>
<td>24 m³/h</td>
<td>15 m³/h</td>
<td>70 mA</td>
<td>12 W</td>
<td>38 dB (A)</td>
<td>72 mm</td>
<td>0.6 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01880.9-00</td>
<td>AC 115 V, 50/60 Hz</td>
<td>32 m³/h</td>
<td>19 m³/h</td>
<td>115 mA</td>
<td>12 W</td>
<td>41 dB (A)</td>
<td>72 mm</td>
<td>0.6 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

### AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>11880.0-30</td>
<td>22 mm</td>
<td>0.2 kg</td>
<td>G3 acc. to DIN EN 779, average arrestance A₁ 84 %</td>
</tr>
</tbody>
</table>

### FILTER MAT FM 086

<table>
<thead>
<tr>
<th>Filter mat</th>
<th>84 x 84 mm</th>
<th>Average arrestance A₁</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>Art. No. 08633.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

### TECHNICAL DRAWINGS

FPI 018  FPI 118  FPO 018  FPO 118
**FILTER FAN PLUS**

**FPI/FPO 018** | up to 97 m³/h (124 x 124 mm)

*New air-flap outlet technology for high airflow*

*Easy mounting*

*Protection type test/Environmental rating by independent testing institutes (VDE and UL)*

*Two systems for optimal airflow (FPI/FPO)*

*Standard enclosure cut-out sizes (5 sizes)*

*One filter mat*

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**TECHNICAL DATA**

- Axial fan, ball bearing: service life L10 at +40 °C (+104 °F): min. 37,000 h
- Fan body aluminium, rotor metal
- Connection: 2 stranded wires, 300 mm
- Casing, hood, flaps: plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)
- Enclosure cut-out: 124 x 124 mm
- Mounting frame: 4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4 mm). Additional use of screws possible if needed².
- Filter mat: G3 acc. to DIN EN 779, average arrestance Aa 84 %
- Filter material: synthetic fibre with progressive construction, temperature resistant to +100 °C, self-extinguishing class F1, moisture resistant to 100 % RH, reusable
- Operating/Storage temperature: -40 to +70 °C (-40 to +158 °F)
- Operating/Storage humidity: max. 90 % RH (non-condensing)
- Protection type/Protection class: IP54 / I (earthed)
- Environmental rating UL/NEMA: UL TYPE 12 / NEMA 12
- Approvals: VDE, UL File No. E234324, EAC
- Note: other voltages on request

² Drilling marks for screw mounting are indicated on mounting frame.

**AIRFLOW DIRECTION “IN”: FILTER FAN FPI 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depths in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01871.0-30</td>
<td>AC 230 V, 50/60 Hz</td>
<td>52 m³/h</td>
<td>42 m³/h</td>
<td>120 mA</td>
<td>19 W</td>
<td>49 db (A)</td>
<td>66 mm</td>
<td>0.8 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01871.9-30</td>
<td>AC 115 V, 50/60 Hz</td>
<td>62 m³/h</td>
<td>51 m³/h</td>
<td>230 mA</td>
<td>18 W</td>
<td>53 db (A)</td>
<td>66 mm</td>
<td>0.8 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION “IN”: EXIT FILTER FPI 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11871.0-00</td>
<td>35 mm</td>
<td>0.3 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>
### SYSTEM FPO

**Filter Fan FPO 018**

**Intake Filter FPO 118**

### AIRFLOW DIRECTION “OUT”: FILTER FAN FPO 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01881.0-00</td>
<td>AC 230 V, 50/60 Hz</td>
<td>97 m³/h</td>
<td>47 m³/h</td>
<td>120 mA</td>
<td>19 W</td>
<td>49 db (A)</td>
<td>79 mm</td>
<td>0.9 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01881.0-00</td>
<td>AC 115 V, 50/60 Hz</td>
<td>117 m³/h</td>
<td>58 m³/h</td>
<td>230 mA</td>
<td>18 W</td>
<td>52 db (A)</td>
<td>79 mm</td>
<td>0.9 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

### AIRFLOW DIRECTION “OUT”: INTAKE FILTER FPO 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>11881.0-30</td>
<td>22 mm</td>
<td>0.2 kg</td>
<td>G3 acc. to DIN EN 779, average arrestance A&lt;sub&gt;a&lt;/sub&gt; 84 %</td>
</tr>
</tbody>
</table>

### FILTER MAT FM 086

<table>
<thead>
<tr>
<th>Filter class</th>
<th>Size (118 x 118 mm)</th>
<th>Average arrestance A&lt;sub&gt;a&lt;/sub&gt;</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>Art. No. 08634.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

### TECHNICAL DRAWINGS

- Filter Fan FPO 018
- Intake Filter FPO 118
- Filter Mat FM 086
- System FPO
FILTER FAN PLUS
FPI/FPO 018 | up to 263 m³/h (176 x 176 mm)

> New air-flap outlet technology for high airflow
> Easy mounting
> Protection type test/Environmental rating by independent testing institutes (VDE and UL)
> Two systems for optimal airflow (FPI/FPO)
> Standard enclosure cut-out sizes (5 sizes)
> One filter mat

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TECHNICAL DATA

Axial fan, ball bearing
Connection
Casing, hood, flaps
Enclosure cut-out
Mounting frame
Filter mat
Filter material
Operating temperature
Storage temperature
Operating/Storage humidity
Protection type/Protection class
Environmental rating UL/NEMA
Approvals
Note

Airflow direction "IN": Filter Fan FPI 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption  (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01872.0-30</td>
<td>AC 230 V, 50/60 Hz</td>
<td>170 m³/h</td>
<td>139 m³/h</td>
<td>310/250 mA</td>
<td>45 W</td>
<td>55 db (A)</td>
<td>117 mm</td>
<td>1.6 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01872.9-30</td>
<td>AC 115 V, 50/60 Hz</td>
<td>204 m³/h</td>
<td>187 m³/h</td>
<td>560/470 mA</td>
<td>38 W</td>
<td>58 db (A)</td>
<td>117 mm</td>
<td>1.6 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

AIRFLOW DIRECTION "OUT": Exit Filter FPI 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11872.0-00</td>
<td>43 mm</td>
<td>0.4 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>

> New air-flap outlet technology for high airflow
> Easy mounting
> Protection type test/Environmental rating by independent testing institutes (VDE and UL)
> Two systems for optimal airflow (FPI/FPO)
> Standard enclosure cut-out sizes (5 sizes)
> One filter mat

Note

1. Drilling marks for screw mounting are indicated on mounting frame.

Drills are subject to change without notice. Errors and omissions excepted. Stability of this product is determined in accordance with the European harmonised EN standards.
**SYSTEM FPO**

![Diagram of SYSTEM FPO components: Intake Filter FPO 118, Filter Fan FPO 018, Filter mat, Air-flaps.]

**AIRFLOW DIRECTION “OUT”: FILTER FAN FPO 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01882.0-00</td>
<td>AC 230 V, 50/60 Hz</td>
<td>263 m³/h</td>
<td>137 m³/h</td>
<td>310/250 mA</td>
<td>45 W</td>
<td>56 db (A)</td>
<td>117 mm</td>
<td>1.6 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01882.9-00</td>
<td>AC 115 V, 50/60 Hz</td>
<td>313 m³/h</td>
<td>166 m³/h</td>
<td>560/470 mA</td>
<td>38 W</td>
<td>60 db (A)</td>
<td>117 mm</td>
<td>1.6 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION “OUT”: INTAKE FILTER FPO 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
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<th>Power consumption</th>
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<th>Depth in enclosure</th>
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<th>Air outlet</th>
</tr>
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<tbody>
<tr>
<td>11882.0-30</td>
<td>AC 230 V, 50/60 Hz</td>
<td>263 m³/h</td>
<td>137 m³/h</td>
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<td>45 W</td>
<td>56 db (A)</td>
<td>117 mm</td>
<td>1.6 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>11882.9-00</td>
<td>AC 115 V, 50/60 Hz</td>
<td>313 m³/h</td>
<td>166 m³/h</td>
<td>560/470 mA</td>
<td>38 W</td>
<td>60 db (A)</td>
<td>117 mm</td>
<td>1.6 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

**FILTER MAT FM 086**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>168 x 168 mm</th>
<th>Average arrestance A₀</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>Art. No. 08635.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

**TECHNICAL DRAWINGS**

![Images of technical drawings for FPI 018, FPI 118, FPO 018, FPO 118.]
**FILTER FAN PLUS**

FPI/FPO 018 | up to 536 m³/h (223 x 223 mm)

- **New air-flap outlet technology for high airflow**
- **Easy mounting**
- **Protection type test/Environmental rating by independent testing institutes (VDE and UL)**
- **Two systems for optimal airflow (FPI/FPO)**
- **Standard enclosure cut-out sizes (5 sizes)**
- **One filter mat**

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**TECHNICAL DATA**

**Axial fan, ball bearing**
- service life L10 at +40 °C (+104 °F): min. 56,000 h
- rotor metal

**Connection**
- 3-pole clamp for 2.5 mm², clamping torque 0.8 Nm max.

**Casing, hood, flaps**
- plastic according to UL94 V-0, light grey;
- UV light resistant according to UL746C (f1)

**Enclosure cut-out**
- 223 x 223 mm

**Mounting frame**
- 4 built-in ratchet braces for mounting
- (6 notches for wall thickness 1—4 mm).
- Additional use of screws possible if needed.

**Filter mat**
- G3 acc. to DIN EN 779, average arrestance Aa 84 %

**Filter material**
- synthetic fibre with progressive construction,
- temperature resistant to +100 °C, self-extinguishing class F1,
- moisture resistant to 100 % RH, reusable

**Operating temperature**
- -25 to +65 °C (-13 to +149 °F)

**Storage temperature**
- -40 to +70 °C (-40 to +158 °F)

**Operating/Storage humidity**
- max. 75 % RH (non-condensing)

**Protection type/Protection class**
- IP54 / I (earthed)

**Environmental rating UL/NEMA**
- UL TYPE 12 / NEMA 12

**Approvals**
- VDE, UL File No. E234324, EAC

**Note**
- other voltages on request

**AIRFLOW DIRECTION “IN”: FILTER FAN FPI 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01873.0-30</td>
<td>AC 230 V, 50/60 Hz</td>
<td>305 m³/h</td>
<td>271 m³/h</td>
<td>300/340 mA</td>
<td>64 W</td>
<td>64 dB (A)</td>
<td>147 mm</td>
<td>2.4 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01873.9-30</td>
<td>AC 115 V, 50/60 Hz</td>
<td>332 m³/h</td>
<td>293 m³/h</td>
<td>600/700 mA</td>
<td>81 W</td>
<td>67 dB (A)</td>
<td>147 mm</td>
<td>2.4 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION “OUT”: EXIT FILTER FPI 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11873.0-00</td>
<td>46 mm</td>
<td>0.6 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>
**SYSTEM FPO**

**AIRFLOW DIRECTION “OUT”: FILTER FAN FPO 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow (50/60 Hz)</th>
<th>Air volume with intake filter (50/60 Hz)</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01883.0-00</td>
<td>AC 230 V, 50/60 Hz</td>
<td>536 m³/h</td>
<td>281 m³/h</td>
<td>300/340 mA</td>
<td>64 W</td>
<td>65 dB (A)</td>
<td>147 mm</td>
<td>2.4 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01883.9-00</td>
<td>AC 115 V, 50/60 Hz</td>
<td>581 m³/h</td>
<td>310 m³/h</td>
<td>600/700 mA</td>
<td>81 W</td>
<td>68 dB (A)</td>
<td>147 mm</td>
<td>2.4 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION “OUT”: INTAKE FILTER FPO 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
<th>Current consumption</th>
<th>Power consumption</th>
<th>Noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01883.0-00</td>
<td>AC 230 V, 50/60 Hz</td>
<td>536 m³/h</td>
<td>281 m³/h</td>
<td>300/340 mA</td>
<td>64 W</td>
<td>65 dB (A)</td>
<td>147 mm</td>
<td>2.4 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01883.9-00</td>
<td>AC 115 V, 50/60 Hz</td>
<td>581 m³/h</td>
<td>310 m³/h</td>
<td>600/700 mA</td>
<td>81 W</td>
<td>68 dB (A)</td>
<td>147 mm</td>
<td>2.4 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

**FILTER MAT FM 086**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>Art. No.</th>
<th>Average arrestance $A_a$</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>08636.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>
FILTER FAN PLUS
FPI/FPO 018 | up to 727 m³/h (291 x 291 mm)

Filter fans are used to provide an optimum climate in enclosures and cabinets with electrical/electronic components. The interior temperature of an enclosure can be reduced by channelling cooler filtered outside air into the enclosure thus expelling heated internal air. The resulting airflow prevents formation of localised hot pockets in installations and protects electronic components from overheating.

The Filter Fan Plus series uses a new air-flap outlet technology for the air outlet and thus reaches a high degree of airflow. A ratchet mechanism is used for mounting and provides high stability and tightness. Depending on the application there are two systems that are available – the FPI or FPO system. The FPI system is a standard installation with a filter fan in the lower part of the enclosure which ensures that fresh air is fed into the enclosure (airflow direction "In"). This system consists of a filter fan and exit filter. Whereas in the FPO system, the filter fan is located in the upper area of the enclosure to avoid heat buildups (airflow direction “Out”). The FPO system is composed of an intake filter and exit filter fan. The Filter Fan Plus series has been designed for indoor use.

> New air-flap outlet technology for high airflow
> Easy mounting
> Protection type test/Environmental rating by independent testing institutes (VDE and UL)
> Two systems for optimal airflow (FPI/FPO)
> Standard enclosure cut-out sizes (5 sizes)
> One filter mat

System FPI

Exit Filter FPI 118
Air-flaps
Filter Fan FPI 018
Filter mat

New air-flap outlet technology for high airflow
Easy mounting
Protection type test/Environmental rating by independent testing institutes (VDE and UL)
Two systems for optimal airflow (FPI/FPO)
Standard enclosure cut-out sizes (5 sizes)
One filter mat

**TECHNICAL DATA**

Axial fan, ball bearing
service life L10 at +40 °C (+104 °F): min. 76,000 h
rotor metal

Connection
3-pole clamp for 2.5 mm², clamping torque 0.8 Nm max.

Casing, hood, flaps
plastic according to UL94 V-0, light grey;
UV light resistant according to UL746C (f1)

Enclosure cut-out
291 x 291 mm

Mounting frame
4 built-in ratchet braces for mounting
(6 notches for wall thickness 1 – 4 mm).
Additional use of screws possible if needed.

Filter mat
G3 acc. to DIN EN 779, average arrestance Aa 84 %

Filter material
synthetic fibre with progressive construction,
temperature resistant to +100 °C, self-extinguishing class F1,
moisture resistant to 100 % RH, reusable

Operating temperature
50 Hz: -25 to +55 °C (-13 to +131 °F)
60 Hz: -25 to +35 °C (-13 to +95 °F)

Storage temperature
-40 to +70 °C (-40 to +158 °F)

Operating/Storage humidity
max. 75 % RH (non-condensing)

Protection type/Protection class
IP54 / I (earthed)

Environmental rating UL/NEMA
UL TYPE 12 / NEMA 12

Approvals
VDE, UL File No. E234324, EAC

Note
other voltages on request

**AIRFLOW DIRECTION "IN": FILTER FAN FPI 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01874.0-30</td>
<td>AC 230 V, 50/60 Hz</td>
<td>433 m³/h</td>
<td>373 m³/h</td>
<td>400/480 mA</td>
<td>95 W</td>
<td>62 db (A)</td>
<td>160 mm</td>
<td>3.1 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01874.9-30</td>
<td>AC 115 V, 50/60 Hz</td>
<td>394 m³/h</td>
<td>339 m³/h</td>
<td>660/800 mA</td>
<td>90 W</td>
<td>61 db (A)</td>
<td>160 mm</td>
<td>3.1 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION "OUT": EXIT FILTER FPI 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11874.0-00</td>
<td>50 mm</td>
<td>1.0 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>
AIRFLOW DIRECTION “OUT”: FILTER FAN FPO 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow (m³/h)</th>
<th>Air volume with intake filter (m³/h)</th>
<th>Current consumption (50/60 Hz)</th>
<th>Power consumption (W)</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure (mm)</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01884.0-00</td>
<td>AC 230 V, 50/60 Hz</td>
<td>727</td>
<td>413</td>
<td>400/480 mA</td>
<td>95</td>
<td>63 (A)</td>
<td>160</td>
<td>3.2</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01884.9-00</td>
<td>AC 115 V, 50/60 Hz</td>
<td>703</td>
<td>391</td>
<td>660/800 mA</td>
<td>90</td>
<td>62 (A)</td>
<td>160</td>
<td>3.2</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

AIRFLOW DIRECTION “OUT”: INTAKE FILTER FPO 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>1188.0-30</td>
<td>25 mm</td>
<td>0.8 kg</td>
<td>G3 acc. to DIN EN 779, average arrestance Aₐ 84 %</td>
</tr>
</tbody>
</table>

FILTER MAT FM 086

<table>
<thead>
<tr>
<th>Filter class</th>
<th>283 x 283 mm</th>
<th>Average arrestance Aₐ</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>Art. No. 08537.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

TECHNICAL DRAWINGS

FPI 018 FPI 118 FPO 018 FPO 118
**PRODUCT CATALOGUE - STEGO**

**FILTER FAN PLUS – DC LINE**

**FPI/FPO 018** | up to 33 m³/h (92 x 92 mm)

Filter fans are used to provide an optimum climate in enclosures and cabinets with electrical/electronic components. The interior temperature of an enclosure can be reduced by channelling cooler filtered outside air into the enclosure thus expelling heated internal air. The resulting airflow prevents formation of localised hot pockets in installations and protects electronic components from overheating.

The Filter Fan Plus series uses a new air-flap outlet technology for the air outlet and thus reaches a high degree of airflow. A ratchet mechanism is used for mounting and provides high stability and tightness. Depending on the application there are two systems that are available – the FPI or FPO system. The FPI system is a standard installation with a filter fan in the lower part of the enclosure which ensures that fresh air is fed into the enclosure (airflow direction "In"). This system consists of a filter fan and exit filter. Whereas in the FPO system, the filter fan is located in the upper area of the enclosure to avoid heat buildups (airflow direction "Out"). The FPO system is composed of an intake filter and exit filter fan. The Filter Fan Plus series has been designed for indoor use.

**TECHNICAL DATA**

- **Axial fan, ball bearing**: service life L10 at +40 °C (+104 °F): min. 70,000 h
- **Connection**: 2 stranded wires, 300 mm
- **Casing, hood, flaps**: plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)
- **Enclosure cut-out**: 92 x 92 mm
- **Mounting frame**: 4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4 mm). Additional use of screws possible if needed.
- **Filter mat**: G3 acc. to DIN EN 779, average arrestance Aa 84 %
- **Filter material**: synthetic fibre with progressive construction, temperature resistant to +100 °C, self-extinguishing class F1, moisture resistant to 100 % RH, reusable
- **Operating temperature**: -20 to +70 °C (-4 to +158 °F)
- **Storage temperature**: -40 to +70 °C (-40 to +158 °F)
- **Operating/Storage humidity**: max. 90 % RH (non-condensing)
- **Protection type/Protection class**: IP54 / II (double insulated)
- **Environmental rating UL/NEMA**: UL TYPE 12 / NEMA 12
- **Approvals**: VDE, UL File No. E234324, EAC
- **Note**: other voltages on request

1 Drilling marks for screw mounting are indicated on mounting frame.

**AIRFLOW DIRECTION "IN": FILTER FAN FPI 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01870.2-30</td>
<td>DC 24 V</td>
<td>22 m³/h</td>
<td>16 m³/h</td>
<td>113 mA</td>
<td>2.7 W</td>
<td>49 dB (A)</td>
<td>59 mm</td>
<td>0.3 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01870.1-30</td>
<td>DC 48 V</td>
<td>23 m³/h</td>
<td>17 m³/h</td>
<td>63 mA</td>
<td>3.0 W</td>
<td>51 dB (A)</td>
<td>59 mm</td>
<td>0.3 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION "OUT": EXIT FILTER FPI 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11870.0-00</td>
<td>25 mm</td>
<td>0.2 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>
SYSTEM FPO

AIRFLOW DIRECTION “OUT”: FILTER FAN FPO 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
<th>Current consumption</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01880.2-00</td>
<td>DC 24 V</td>
<td>31 m³/h</td>
<td>17 m³/h</td>
<td>113 mA</td>
<td>2.7 W</td>
<td>48 dB (A)</td>
<td>66 mm</td>
<td>0.3 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01880.1-00</td>
<td>DC 48 V</td>
<td>33 m³/h</td>
<td>18 m³/h</td>
<td>63 mA</td>
<td>3.0 W</td>
<td>49 dB (A)</td>
<td>66 mm</td>
<td>0.3 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

AIRFLOW DIRECTION “OUT”: INTAKE FILTER FPO 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>11880.0-30</td>
<td>22 mm</td>
<td>0.2 kg</td>
<td>G3 acc. to DIN EN 779, average arrestance A₀ 84 %</td>
</tr>
</tbody>
</table>

FILTER MAT FM 086

<table>
<thead>
<tr>
<th>Filter class</th>
<th>84 x 84 mm</th>
<th>Average arrestance A₀</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>Art. No. 08633.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

TECHNICAL DRAWINGS

FPI 018

FPI 118

FPO 018

FPO 118
FILTER FAN PLUS – DC LINE
FPI/FPO 018 | up to 125 m³/h (124 x 124 mm)

> New air-flap outlet technology for high airflow
> Easy mounting
> Protection type test/Environmental rating by independent testing institutes (VDE and UL)
> Two systems for optimal airflow (FPI/FPO)
> Standard enclosure cut-out sizes
> One filter mat

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**TECHNICAL DATA**

- Axial fan, ball bearing: service life L10 at +40 °C (+104 °F): min. 65,000 h plastic
- Connection: 2 stranded wires, 300 mm
- Casing, hood, flaps: plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)
- Enclosure cut-out: 124 x 124 x 1 mm
- Mounting frame: 4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4 mm). Additional use of screws possible if needed.
- Filter mat: G3 acc. to DIN EN 779, average arrestance Aa 84 %
- Filter material: synthetic fibre with progressive construction, temperature resistant to +100 °C, self-extinguishing class F1, moisture resistant to 100 % RH, reusable
- Operating temperature: -20 to +70 °C (-4 to +158 °F)
- Storage temperature: -40 to +70 °C (-40 to +158 °F)
- Operating/Storage humidity: max. 90 % RH (non-condensing)
- Protection type/Protection class: IP54 / II (double insulated)
- Environmental rating UL/NEMA: UL TYPE 12 / NEMA 12
- Approvals: VDE, UL File No. E234324, EAC

**AIRFLOW DIRECTION "IN": FILTER FAN FPI 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01871.2-30</td>
<td>DC 24 V</td>
<td>66 m³/h</td>
<td>56 m³/h</td>
<td>171 mA</td>
<td>4.1 W</td>
<td>58 dB (A)</td>
<td>66 mm</td>
<td>0.5 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01871.3-30</td>
<td>DC 48 V</td>
<td>67 m³/h</td>
<td>56 m³/h</td>
<td>88 mA</td>
<td>4.2 W</td>
<td>52 dB (A)</td>
<td>66 mm</td>
<td>0.5 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION "OUT": EXIT FILTER FPI 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11871.0-00</td>
<td>35 mm</td>
<td>0.3 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>

Note: Other voltages on request

1 Drilling marks for screw mounting are indicated on mounting frame.
**SYSTEM FPO**

**AIRFLOW DIRECTION “OUT”: FILTER FAN FPO 018**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
<th>Current consumption</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01881.2-00</td>
<td>DC 24 V</td>
<td>118 m³/h</td>
<td>63 m³/h</td>
<td>171 mA</td>
<td>4.1 W</td>
<td>56 dB (A)</td>
<td>79 mm</td>
<td>0.5 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01881.0-00</td>
<td>DC 48 V</td>
<td>125 m³/h</td>
<td>63 m³/h</td>
<td>88 mA</td>
<td>4.2 W</td>
<td>50 dB (A)</td>
<td>79 mm</td>
<td>0.5 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

**AIRFLOW DIRECTION “OUT”: INTAKE FILTER FPO 118**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>11881.0-30</td>
<td>22 mm</td>
<td>0.2 kg</td>
<td>G3 acc. to DIN EN 779, average arrestance Aa 84 %</td>
</tr>
</tbody>
</table>

**FILTER MAT FM 086**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>118 x 118 mm</th>
<th>Average arrestance Aa</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>Art. No. 08634.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

**TECHNICAL DRAWINGS**

- FPO 018
- FPO 118
- FPI 018
- FPI 118
- FPO 018
- FPO 118
FILTER FAN PLUS – DC LINE
FPI/FPO 018 | up to 277 m³/h (176 x 176 mm)

TECHNICAL DATA
Axial fan, ball bearing service life L10 at +40 °C (+104 °F): min. 80,000 h
fan body aluminium, rotor plastic
Connection 3-pole clamp for 2.5 mm², clamping torque 0.8 Nm max.
Casing, hood, flaps plastic according to UL94 V-0, light grey;
UV light resistant according to UL746C (f1)
Enclosure cut-out 176 x 176+1 mm
Mounting frame 4 built-in ratchet braces for mounting
(6 notches for wall thickness 1 – 4 mm).
Additional use of screws possible if needed1.
Filter mat G3 acc. to DIN EN 779, average arrestance Aa 84 %
Filter material synthetic fibre with progressive construction,
temperature resistant to +100 °C, self-extinguishing class F1,
moisture resistant to 100 % RH, reusable
Operating temperature -25 to +70 °C (-13 to +158 °F)
Storage temperature -40 to +70 °C (-40 to +158 °F)
Operating/Storage humidity max. 90 % RH (non-condensing)
Protection type/Protection class IP54 / I (earthed)
Environmental rating UL/NEMA UL TYPE 12 / NEMA 12
Approvals VDE, UL File No. E234324, EAC
Note other voltages on request

AIRFLOW DIRECTION “IN”: FILTER FAN FPI 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with exit filter</th>
<th>Current consumption</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>01872.2-30</td>
<td>DC 24 V</td>
<td>178 m³/h</td>
<td>156 m³/h</td>
<td>500 mA</td>
<td>12.0 W</td>
<td>63 dB (A)</td>
<td>117 mm</td>
<td>1.5 kg</td>
<td>G3</td>
</tr>
<tr>
<td>01872.1-30</td>
<td>DC 48 V</td>
<td>170 m³/h</td>
<td>147 m³/h</td>
<td>250 mA</td>
<td>12.0 W</td>
<td>63 dB (A)</td>
<td>117 mm</td>
<td>1.5 kg</td>
<td>G3</td>
</tr>
</tbody>
</table>

AIRFLOW DIRECTION “OUT”: EXIT FILTER FPI 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>11872.0-00</td>
<td>43 mm</td>
<td>0.4 kg</td>
<td>air-flap outlet technology</td>
</tr>
</tbody>
</table>
SYSTEM FPO

AIRFLOW DIRECTION “OUT”: FILTER FAN FPO 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Air volume with intake filter</th>
<th>Current consumption</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>01882.2-00</td>
<td>DC 24 V</td>
<td>269 m³/h</td>
<td>140 m³/h</td>
<td>500 mA</td>
<td>12.0 W</td>
<td>63 dB (A)</td>
<td>117 mm</td>
<td>1.5 kg</td>
<td>air-flaps</td>
</tr>
<tr>
<td>01882.1-00</td>
<td>DC 48 V</td>
<td>277 m³/h</td>
<td>146 m³/h</td>
<td>250 mA</td>
<td>12.0 W</td>
<td>63 dB (A)</td>
<td>117 mm</td>
<td>1.5 kg</td>
<td>air-flaps</td>
</tr>
</tbody>
</table>

AIRFLOW DIRECTION “OUT”: INTAKE FILTER FPO 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>11882.0-30</td>
<td>25 mm</td>
<td>0.4 kg</td>
<td>G3 acc. to DIN EN 779, average arrestance A, 84 %</td>
</tr>
</tbody>
</table>

FILTER MAT FM 086

<table>
<thead>
<tr>
<th>Filter class</th>
<th>168 x 168 mm</th>
<th>Average arrestance A,</th>
<th>1 packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 acc. to DIN EN 779</td>
<td>Art. No. 08635.0-00</td>
<td>84 %</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

TECHNICAL DRAWINGS

FPI 018  FPI 118  FPO 018  FPO 118
HOSE-PROOF HOOD
FFH 086 | IP56

> Increase of protection class
> Easy to clean
> Filter mat change from outside
> Impact-resistant, robust

> Safe against unauthorized removal
> Weather resistant
> Versatile
> Protective grid

The hose-proof hood for increasing the protection class is a protective cover for filter fans, intake and exit filters, e.g. for the series FPI 018, FPO 018 and FF 018. It is used for protection against water projected by a hose and extreme climatic influences if located outdoors or in industrial applications with harsh environmental conditions. In order to clean the filter fans or to change the filter mat, the hood can easily be removed, the cabinet does not need to be opened (safety risk).

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Cutout usable for FF 018</th>
<th>Cutout usable for FPI/FPO 018</th>
<th>Dimensions L x B x H</th>
<th>Max. covered area (X x Y)</th>
<th>Weight (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08670.0-00</td>
<td>97 x 97 mm</td>
<td>92 x 92 mm</td>
<td>214 x 195 x 48 mm</td>
<td>143 x 132 mm</td>
<td>0.8 kg</td>
</tr>
<tr>
<td>08671.0-00</td>
<td>125 x 125 mm</td>
<td>124 x 124 mm</td>
<td>279 x 225 x 58 mm</td>
<td>173 x 168 mm</td>
<td>1.2 kg</td>
</tr>
<tr>
<td>08672.0-00</td>
<td>176 x 176 mm</td>
<td>176 x 176 mm</td>
<td>359 x 294 x 68 mm</td>
<td>235 x 221 mm</td>
<td>2.0 kg</td>
</tr>
<tr>
<td>08673.0-00</td>
<td>250 x 250 mm</td>
<td>223 x 223 mm</td>
<td>415 x 369 x 78 mm</td>
<td>290 x 288 mm</td>
<td>2.8 kg</td>
</tr>
<tr>
<td>08674.0-00</td>
<td>-</td>
<td>291 x 291 mm</td>
<td>485 x 409 x 103 mm</td>
<td>340 x 328 mm</td>
<td>3.7 kg</td>
</tr>
</tbody>
</table>

¹ IP56 when used with STEGO filter fans FPI/FPO 018 and FF 018 and when seal is tightly fitted.
## TECHNICAL DATA

### Axial fans, ball bearing
- Service life: 50,000 h at +25 °C (+77 °F), 65 % RH
- Fan body: aluminium, rotor: plastic

### Connection
- 3-pole clamp for 2.5 mm², clamping torque: 0.8 Nm max.

### Casing
- Plastic according to UL94 V-0, light grey;
- Weatherproof and UV light resistant according to UL746C (f1)

### Filter mat
- G3 acc. to DIN EN 779, filtering degree: 85 %

### Filter material
- Synthetic fibre with progressive construction,
- Temperature resistant to +100 °C, self-extinguishing class F1,
- Moisture resistant to 100 % RH,
- Reusable – cleaning by washing or vacuuming

### Operating/Storage humidity
- Max. 90 % RH (non-condensing)

### Protection type/Protection class
- IP32 / I (earthed)

### Approvals
- EAC, VDE (AC 230 V only), UL intended

### Important note:
For reasons of pressure compensation the roof filter fan must always be operated in combination with a passive intake filter (e.g. Art. No. 11803.0-00) or another filter fan (e.g. Art. No. 01803.0-00).

## Roof Filter Fans

### Roof Filter Fan RFP 018

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Depth in enclosure</th>
<th>Enclosure cut-out</th>
<th>Weight (approx.)</th>
<th>Operating / Storage temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>01860.0-00</td>
<td>AC 230 V, 50 Hz</td>
<td>300 m³/h</td>
<td>68 W</td>
<td>55 dB (A)</td>
<td>52 mm</td>
<td>250 x 250 mm + 0.4</td>
<td>3.3 kg</td>
<td>-10 to +70 °C (+14 to +158 °F) / -40 to +70 °C (-40 to +158 °F)</td>
</tr>
<tr>
<td>01861.0-00</td>
<td>AC 230 V, 50 Hz</td>
<td>500 m³/h</td>
<td>64 W</td>
<td>67 dB (A)</td>
<td>107 mm</td>
<td>250 x 250 mm + 0.4</td>
<td>2.6 kg</td>
<td>-25 to +70 °C (-13 to +158 °F)</td>
</tr>
<tr>
<td>01860.0-02</td>
<td>AC 120 V, 60 Hz</td>
<td>345 m³/h</td>
<td>60 W</td>
<td>55 dB (A)</td>
<td>52 mm</td>
<td>250 x 250 mm + 0.4</td>
<td>3.3 kg</td>
<td>-10 to +70 °C (+14 to +158 °F) / -40 to +70 °C (-40 to +158 °F)</td>
</tr>
<tr>
<td>01861.0-02</td>
<td>AC 120 V, 60 Hz</td>
<td>575 m³/h</td>
<td>85 W</td>
<td>67 dB (A)</td>
<td>107 mm</td>
<td>250 x 250 mm + 0.4</td>
<td>2.6 kg</td>
<td>-25 to +70 °C (-13 to +158 °F)</td>
</tr>
</tbody>
</table>

### Roof Exit Filter REP 118

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Depth in enclosure</th>
<th>Enclosure cut-out</th>
<th>Weight (approx.)</th>
<th>Filter mat</th>
<th>Protection type</th>
</tr>
</thead>
<tbody>
<tr>
<td>11860.0-00</td>
<td>11 mm</td>
<td>250 x 250 mm + 0.4</td>
<td>1.0 kg</td>
<td>G3 acc. to DIN EN 779, filtering degree 85 %</td>
<td>IP32</td>
</tr>
</tbody>
</table>

### Filter Mat FM 086

<table>
<thead>
<tr>
<th>Filter mat</th>
<th>282 x 282 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3 (1 packing unit = 3 pcs.)</td>
<td>Art. No. 08613.0-01</td>
</tr>
</tbody>
</table>
HIGH-PERFORMANCE 19" FAN TRAY
LE 019

> High air output
> Long service life
> Ball bearing fans

> Ready for connection
> Optical function indicator

Compact high performance fan tray for enforced circulation of air in switch and server enclosures and for concerted cooling of 19" component groups. Natural convection is improved and the formation of localised hot pockets is avoided. Also available with integrated thermostat (see photo).

TECHNICAL DATA

Axial fans, ball bearing  
Material  
  front panel aluminium, bright anodised  
  casing steel sheet, electrogalvanized  
Optical indicator  
  integrated in front panel  
Connection  
  appliance power inlet on rear of casing, plug included  
Fitting position  
  vertical airflow (air outlet up)  
Operating/Storage temperature  
  -10 to +60 °C (+14 to +140 °F) / -40 to +70 °C (-40 to +158 °F)  
Operating/Storage humidity  
  max. 90 % RH (non-condensing)  
Protection type/Protection class  
  IP20 / I (earthed)  

Use in 19" enclosures: We recommend using the fan tray without integrated thermostat in combination with our dual thermostat (ZR 011 Art. No. 01176.0-00) for regulating temperature in electronic enclosures and for protection against overheating due to possible fan failure. The dual thermostat regulates the operation of the fan tray and – when connected to a signal device – also triggers an early warning if the enclosure interior temperature rises above a set limit. When using a fan tray with integrated thermostat, the use of an additional thermostat (KTS 011 Art. No. 01147.9-00) provides the extra safety of activating a signal device.

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Thermostat</th>
<th>No. of fans</th>
<th>Operating voltage</th>
<th>Air volume, free flow</th>
<th>Power consumption</th>
<th>Average noise level (DIN EN ISO 4871)</th>
<th>Speed (rpm)</th>
<th>Weight (approx.)</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>01930.0-00</td>
<td>without</td>
<td>3</td>
<td>AC 230 V, 50 Hz</td>
<td>486 m³/h</td>
<td>45 W</td>
<td>55 db (A)</td>
<td>2,600 rpm (50 Hz)</td>
<td>3.0 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01930.1-00</td>
<td>0 to +60 °C</td>
<td>3</td>
<td>AC 230 V, 50 Hz</td>
<td>486 m³/h</td>
<td>45 W</td>
<td>55 db (A)</td>
<td>2,600 rpm (50 Hz)</td>
<td>3.4 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01940.0-00</td>
<td>without</td>
<td>6</td>
<td>AC 230 V, 50 Hz</td>
<td>972 m³/h</td>
<td>90 W</td>
<td>57 db (A)</td>
<td>2,600 rpm (50 Hz)</td>
<td>5.3 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01940.1-00</td>
<td>0 to +60 °C</td>
<td>6</td>
<td>AC 230 V, 50 Hz</td>
<td>972 m³/h</td>
<td>90 W</td>
<td>57 db (A)</td>
<td>2,600 rpm (50 Hz)</td>
<td>5.7 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01950.0-00</td>
<td>without</td>
<td>9</td>
<td>AC 230 V, 50 Hz</td>
<td>1,458 m³/h</td>
<td>135 W</td>
<td>58 db (A)</td>
<td>2,600 rpm (50 Hz)</td>
<td>7.8 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01950.1-00</td>
<td>0 to +60 °C</td>
<td>9</td>
<td>AC 230 V, 50 Hz</td>
<td>1,458 m³/h</td>
<td>135 W</td>
<td>58 db (A)</td>
<td>2,600 rpm (50 Hz)</td>
<td>7.9 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01931.0-00</td>
<td>without</td>
<td>3</td>
<td>AC 120 V, 60 Hz</td>
<td>576 m³/h</td>
<td>45 W</td>
<td>55 db (A)</td>
<td>2,900 rpm (60 Hz)</td>
<td>3.0 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01931.1-00</td>
<td>0 to +60 °C</td>
<td>3</td>
<td>AC 120 V, 60 Hz</td>
<td>576 m³/h</td>
<td>45 W</td>
<td>55 db (A)</td>
<td>2,900 rpm (60 Hz)</td>
<td>3.4 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01941.0-00</td>
<td>without</td>
<td>6</td>
<td>AC 120 V, 60 Hz</td>
<td>1,152 m³/h</td>
<td>90 W</td>
<td>57 db (A)</td>
<td>2,900 rpm (60 Hz)</td>
<td>5.3 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01941.1-00</td>
<td>0 to +60 °C</td>
<td>6</td>
<td>AC 120 V, 60 Hz</td>
<td>1,152 m³/h</td>
<td>90 W</td>
<td>57 db (A)</td>
<td>2,900 rpm (60 Hz)</td>
<td>5.7 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01951.0-00</td>
<td>without</td>
<td>9</td>
<td>AC 120 V, 60 Hz</td>
<td>1,728 m³/h</td>
<td>135 W</td>
<td>58 db (A)</td>
<td>2,900 rpm (60 Hz)</td>
<td>7.8 kg</td>
<td>UL File No. E234324</td>
</tr>
<tr>
<td>01951.1-00</td>
<td>0 to +60 °C</td>
<td>9</td>
<td>AC 120 V, 60 Hz</td>
<td>1,728 m³/h</td>
<td>135 W</td>
<td>58 db (A)</td>
<td>2,900 rpm (60 Hz)</td>
<td>7.9 kg</td>
<td>-</td>
</tr>
</tbody>
</table>
STEGOJET
SJ 019

The STEGOJET is a compact, powerful built-in fan. It allows precise cooling of heat sources and the air flow prevents formation of heat pockets. Its design offers a maximum rotation range with an air output in almost any direction. On one hand the dual clip system (two clips in a 90° angle) allows four different positions on a DIN rail, while on the other hand the hinge in the housing can be moved in a 40° angle. The airflow at the air outlet can also be directed in a 45° angle and the air duct can be rotated in steps of 60°.

TECHNICAL DATA

Axial fan, ball bearing
- Air flow 27.6 m³/h, free flow
- Service life 40,000 h at +60 °C (+140 °F), 90 % RH

Power consumption
- 4 W

Connection
- 2-pole dual pressure clamp for rigid wire 2.5 mm², stranded wire (with wire end ferrule) 1.5 mm²

Casing
- Plastic according UL94 V-0, black

Mounting
- Clip for 35 mm DIN rail, EN 60715 or screw fixing (M5), torque 2 Nm max., washers have to be used

Fitting position
- Variable

Dimensions
- 132 x 75 x 60 mm

Weight
- Approx. 0.2 kg

Operating/Storage temperature
- -10 to +60 °C (+14 to +140 °F)/-30 to +70 °C (-22 to +158 °F)

Operating/Storage humidity
- Max. 90 % RH (non-condensing)

Protection type
- IP20

Range of rotation:

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Model</th>
<th>Operating voltage</th>
<th>Protection class</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>01925.0-00</td>
<td>Clip fixing</td>
<td>AC 100 – 240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)</td>
<td>II (double insulated)</td>
<td>VDE/UL File No. E234324/EAC</td>
</tr>
<tr>
<td>01925.0-01</td>
<td>Screw fixing</td>
<td>AC 100 – 240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)</td>
<td>II (double insulated)</td>
<td>VDE/UL File No. E234324/EAC</td>
</tr>
<tr>
<td>01925.1-00</td>
<td>Clip fixing</td>
<td>DC 24 V (min. DC 12 V, max. DC 26.4 V)</td>
<td>III (double insulated)</td>
<td>VDE/–/EAC</td>
</tr>
<tr>
<td>01925.1-01</td>
<td>Screw fixing</td>
<td>DC 24 V (min. DC 12 V, max. DC 26.4 V)</td>
<td>III (double insulated)</td>
<td>VDE/–/EAC</td>
</tr>
</tbody>
</table>