



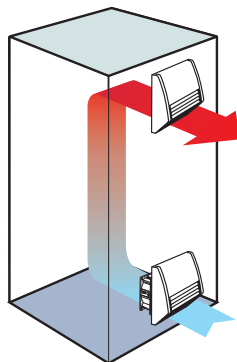
- **Very low noise**
- **Minimal depth in enclosure**
- **Functional design**
- **Time-saving installation**
- **Weather proof and UV resistant**

Filter fans are used to provide an optimum climate in enclosures. 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 air flow prevents formation of localised hot pockets and protects the electronic components from overheating. The plastic used for the hood of this filter fan series is highly weather proof and UV light resistant.



### Technical Data

<b>Axial fan, ball bearing</b>	service life min. 50,000h at 25°C/77°F (65% RH) fan body aluminium, rotor plastic
<b>Connection</b>	2 wires with pressure clamps 2.5mm², length 100mm
<b>Casing (filter fan and exit filter)</b>	Plastic according to UL94 V-0, light grey
<b>Hood (filter fan and exit filter)</b>	Plastic according to UL94 V-0, light grey; weather proof and UV light resistant according to UL746C (f1)
<b>Mounting frame</b>	with double-sided industrial adhesive band for fixing to the outside of enclosure; certain operating circumstances can make the additional use of screws necessary (see drilling template); included in the delivery of the filter fans is a template for the enclosure cut-out
<b>Filter mat</b>	G4 acc. to DIN EN 779, filtering degree 94%
<b>Filter material</b>	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
<b>Operating / Storage temperature</b>	-10 to +70°C (+14 to +158°F) / -40 to +70°C (-40 to +158°F)
<b>Operating / Storage humidity</b>	max. 90% RH (non-condensing)
<b>Prot. Type / Protection class</b>	IP55 / I (earthed)



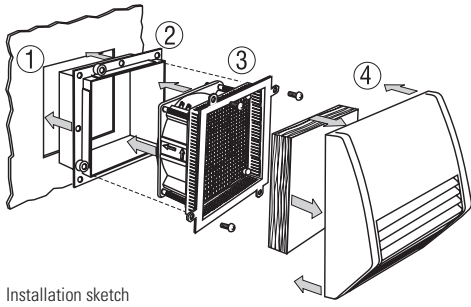
Enclosure air-conditioning using a filter fan and exit filter

### Special features

- The **self-adhesive seal** of the mounting frame prevents dust and water from entering the cabinet.
- **Functional design** of the intake and exit fan hoods very effectively prevents direct intrusion of falling water and dust. The advantage is that the filter mat does not get so quickly contaminated with dirt and thus does not need to be exchanged so often.
- The **air channelling** makes the filter fan particularly quiet in operation.
- Functional and **modern design** enables time-saving assembly and maintenance.
- EMC versions and other voltages on request.
- The **direction of air can easily be switched** by reversing the axial fan (sizes 1 to 3).

### Filter Fan FF 018 Series

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Current consumption	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Enclosure cut-out	Weight (approx.)	Approvals
01800.0-00	230VAC, 50Hz	21m³/h	16m³/h	80mA	13W	31dB (A)	45mm	97 x 97mm + 0.4	0.6kg	VDE + UL File No. E234324
01801.0-00	230VAC, 50Hz	55m³/h	42m³/h	100mA	15W	40dB (A)	58mm	125 x 125mm + 0.4	1.0kg	VDE + UL File No. E234324
01802.0-00	230VAC, 50Hz	102m³/h	68m³/h	100mA	15W	39dB (A)	86mm	176 x 176mm + 0.4	1.3kg	VDE + UL File No. E234324
01800.0-01	120VAC, 60Hz	24m³/h	18m³/h	160mA	13W	31dB (A)	45mm	97 x 97mm + 0.4	0.6kg	UL File No. E234324
01801.0-01	120VAC, 60Hz	63m³/h	48m³/h	180mA	15W	40dB (A)	58mm	125 x 125mm + 0.4	1.0kg	UL File No. E234324
01802.0-01	120VAC, 60Hz	117m³/h	78m³/h	180mA	15W	39dB (A)	86mm	176 x 176mm + 0.4	1.3kg	UL File No. E234324



Installation sketch

### Time-saving assembly and maintenance

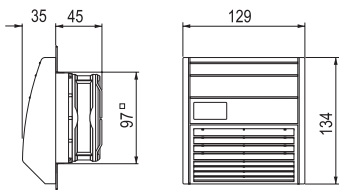
STEGO's filter fans are easily installed by one person **from outside** the cabinet.

- 1.) Make cut-out in the cabinet wall. The cut edge of the cabinet opening should be free of dirt, filings and grease. A template for the enclosure cut-out is included in the delivery of the filter fan.
- 2.) Remove protective film from the sealing strips on the mounting frame. Press mounting frame into the cabinet opening. The frame stays permanently in the cabinet. (For size 176mm and up we recommend additional screw fixing.)
- 3.) Electrically connect the axial fan using the clip connectors. Push the unit into the mounting frame. Fix using screws.
- 4.) Insert the filter mat in the hood. Clip on. Finished.

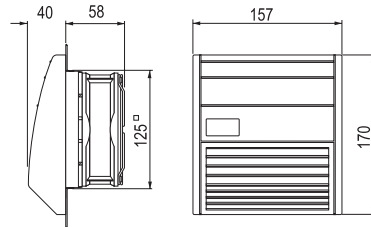
Changing the filter mat or fan is quickly done by one person. To change the filter mat simply remove the filter hood, insert the new mat and snap the hood back again. No tools required. Maintenance of the fan can easily be done without removing the mounting frame (2).

### Dimensional Drawing

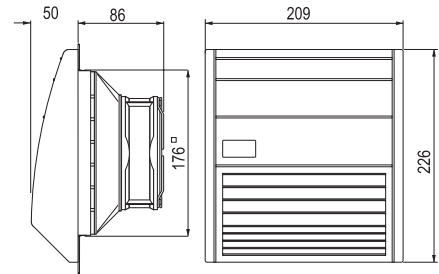
#### Size 1



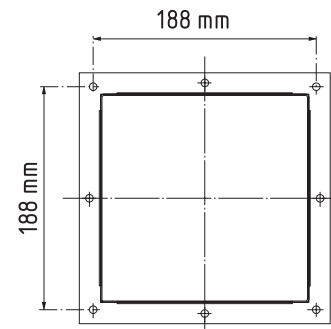
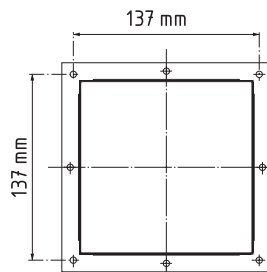
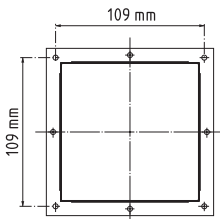
#### Size 2



#### Size 3



### Drilling template for mounting frame



### Exit Filter EF 118 Series

Art. No.	Depth in enclosure	Enclosure cut-out	Weight (approx.)	Filter mat	Protection type
11800.0-00	16mm	97 x 97mm + 0.4	0.3kg	G4 acc. to DIN EN 779, filtering degree 94%	IP55
11801.0-00	16mm	125 x 125mm + 0.4	0.4kg	G4 acc. to DIN EN 779, filtering degree 94%	IP55
11802.0-00	16mm	176 x 176mm + 0.4	0.6kg	G4 acc. to DIN EN 779, filtering degree 94%	IP55

### Filter Mat FM 086

Filter mat	89 x 89mm	118 x 118mm	168 x 168mm
G4 (1 packing unit = 3 pcs.)	Art. No. 08600.0-00	Art. No. 08601.0-00	Art. No. 08602.0-00