



EMI + Standard Filter Fan FF 018

The newly developed filter fan design serves three functions:

- Easy mounting for axial fan
- High air flow
- High EMI screening: numerous integrally molded contact springs hinder electromagnetic interference fields originating from within the cabinet or penetrating from outside.

The self-adhesive seal of the mounting frame prevents dust and water from entering the cabinet.

A spring contact strip on the EMI version additionally forms a continuous conductive connection between the cabinet cut-out and the mounting frame.

The necessary cut-out in the cabinet is effectively sealed against high frequency radiation directly on the line of the cabinet wall.

The functional design of the intake and exhaust fan hoods very effectively prevents direct infiltration of falling water and dust.

Air channeling makes the filter fan particularly quiet in operation.

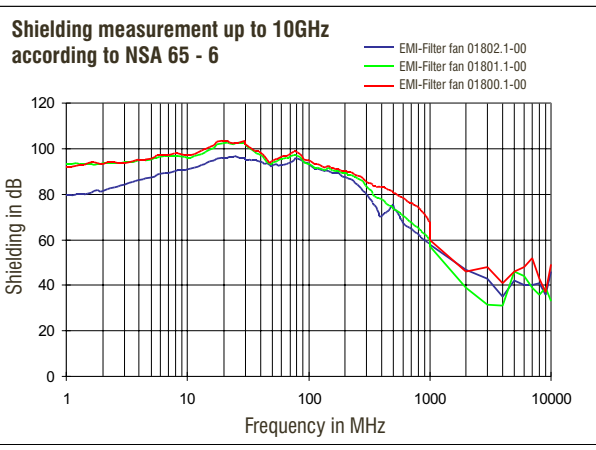


Very low noise
Minimal depth in enclosure
Functional design
Time-saving installation
High level shielding

Time-saving assembly and maintenance

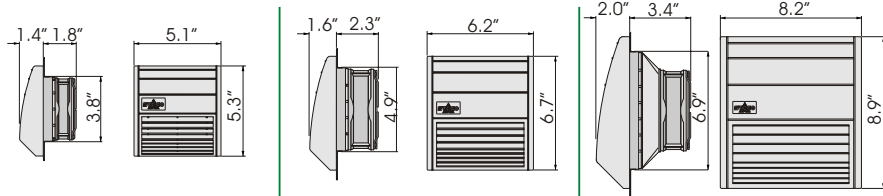
STEGO's new filter fan is easily connected and installed **from outside** the cabinet.

- ① When using the EMI version, only the *cut edge* of the cabinet opening must be paint-free. The advantage: quick and reliable removal of the paint layer and no damage to the cabinet sides.
- ② Remove protective film from the sealing strips on the mounting frame and press into the cabinet opening. The frame stays permanently in the cabinet.
- ③ Electrically connect the axial fan using the clip connectors and push the unit into the mounting frame. Affix using screws.
- ④ Insert the filter mat in the hood. Clip hood on. Finished.



U.S. Patent No. 6,699,301 B1

FILTER FAN FF 018 Series



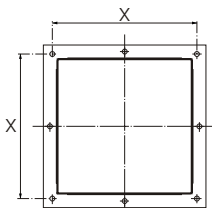
	Standard		EMI Version		Standard		EMI Version	
	01800.0-00	01800.0-01	01800.1-00	01800.1-01	01801.0-00	01801.0-01	01801.1-00	01801.1-01
Part No. AC 230 V, 50 Hz:	01800.0-00		01800.1-00		01801.0-00		01801.1-00	
Part No. AC 120 V, 60 Hz:	01800.0-01		01800.1-01		01801.0-01		01801.1-01	
Filter mat: Medium grade	350 g/m ² , filtering degree 94%, Particle Ø < 10 µm, G4 (EN 779)							
Air volume	12 cfm (21 m ³ /h)		35 cfm (60 m ³ /h)		60 cfm (102 m ³ /h)		40 cfm (68 m ³ /h)	
free blowing:	9 cfm (16 m ³ /h)		24 cfm (42 m ³ /h)		60 cfm (102 m ³ /h)		40 cfm (68 m ³ /h)	
with exit filter:	80 mA		100 mA		100 mA		100 mA	
Current consumption 230 V:	160 mA		180 mA		180 mA		180 mA	
120 V:	13W		15W		15W		15W	
Power consumption 230 V:	13W		15W		15W		15W	
120 V:	31 dB (A)		40 dB (A)		39 dB (A)		39 dB (A)	
Average noise level at 3 ft DIN EN ISO 9614-2:	1.8" (45 mm)		2.3" (58 mm)		3.4" (86 mm)		3.4" (86 mm)	
Mounting depth:	3.8" x 3.8" (97 x 97 mm +0.4)		4.9" x 4.9" (125 x 125 mm +0.4)		6.9" x 6.9" (176 x 176 mm +0.4)		6.9" x 6.9" (176 x 176 mm +0.4)	
Enclosure cut-out:	1.2 lbs (0.54 kg)		2.2 lbs (1.0 kg)		4.2 lbs (1.9 kg)		4.2 lbs (1.9 kg)	
Weight:	Air flow increases by approximately 15% for 120V / 60Hz models							

EXHAUST FILTER EF 118 Series

	Standard		EMI Version		Standard		EMI Version	
	11800.0-00	11800.1-00	11801.0-00	11801.1-00	11802.0-00	11802.1-00	11802.1-00	
Part No.:	11800.0-00		11801.0-00		11802.0-00		11802.1-00	
Filter mat: Medium grade	350 g/m ² , filtering degree 94%, Particle Ø < 10 µm, G4 (EN 779)							
Mounting depth:	0.6" (16 mm)		0.6" (16 mm)		0.6" (16 mm)		0.6" (16 mm)	
Enclosure cut-out:	3.8" x 3.8" (97 x 97 mm +0.4)		4.9" x 4.9" (125 x 125 mm +0.4)		6.9" x 6.9" (176 x 176 mm +0.4)		6.9" x 6.9" (176 x 176 mm +0.4)	
Weight:	0.6 lbs (0.27 kg)		0.8 lbs (0.38 kg)		1.3 lbs (0.60 kg)		1.3 lbs (0.60 kg)	

Mounting frame

Hole centers for attaching with screws - hole Ø 1/8" (3 mm)



X = 4.3" (109 mm)

X = 5.4" (137 mm)

X = 7.4" (188 mm)

OTHER TECHNICAL DATA:

Axial fan: Ball bearing, aluminum frame, plastic impeller UL94V-0
Operational life min. 50,000 hrs at 77°F (RH 65%)
Ambient temperature -22°F to 158°F
2 lead wires 4" long with pressure clamps, type AWG 14 max.
DC Axial fan in 12 V, 24 V, 48 V available on request

Filter material: Synthetic fiber with progressive construction, temperature resistant to 212°F, self-extinguishing class F1.
Moisture resistant to 100% RH.
Can be cleaned by washing or vacuuming for reuse.
Replacement filter mats available on request.

Filter fan & exhaust filter housing: Plastic, UL94V-0
Color light grey, temperature resistant -31°F to 158°F.

The fan mounting on the EMI Version is plated and the mounting frame is fitted with Be Cu contact strips.
Protection with standard filter mats G4: IP 54.
Using fine filter mats F5 increases the protection to IP 55 but reduces the air volume.

Mounting frame: With double sided industrial adhesive band for affixing to the outside of enclosure. Certain operating circumstances may make the additional use of screws necessary.

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Specifications are subject to change without notice. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.

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