

Enclosure ventilation using a filter fan and exhaust filter

Special fe	atures
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- The self-adhesive seal of the mounting frame prevents dust and water from entering the cabinet.
- Functional design of the intake and exhaust fan hoods very effectively prevents direct infiltration of falling water and dust. The advantage is that the filter mat does not rapidly become contaminated with dirt and therefore does not need to be exchanged as often.

Very low noise

Minimal mounting depth

Weather proof and UV resistant

Functional design Time-saving installation

Protection type

- The air channelling makes the filter fan particularly quiet in operation.
- All filter fan models are also available with integrated airflow monitor.

1) air volume increases by 15% when operating 230VAC filter fans at 60Hz

The direction of air flow can easily be switched by reversing the axial fan.

EMC versions and other voltages are available upon request.

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Enclosure cut-out	Weight (approx.)	Approvals
01800.0-00	230VAC, 50Hz1)	12 cfm (21m ³ /h)	9 cfm (16m³/h)	13W	31dB (A)	1.8" (45mm)	3.8 x 3.8"	1.3 lbs. (0.60kg)	UL File No. E234324, VDE
01800.0-01	120VAC, 60Hz	14 cfm (24m ³ /h)	11 cfm (18m ³ /h)	13W	31dB (A)	1.8" (45mm)	3.8 x 3.8″	1.3 lbs. (0.60kg)	UL File No. E234324
01801.0-00	230VAC, 50Hz1)	32 cfm (55m ³ /h)	25 cfm (42m³/h)	15W	40dB (A)	2.3" (58mm)	4.9 x 4.9"	2.2 lbs. (1.0kg)	UL File No. E234324, VDE
01801.0-01	120VAC, 60Hz	37 cfm (63m³/h)	28 cfm (48m ³ /h)	15W	40dB (A)	2.3" (58mm)	4.9 x 4.9"	2.2 lbs. (1.0kg)	UL File No. E234324
01802.0-00	230VAC, 50Hz1)	60 cfm (102m ³ /h)	40 cfm (68m ³ /h)	15W	39dB (A)	3.4" (86mm)	6.9 x 6.9"	2.9 lbs. (1.30kg)	UL File No. E234324, VDE
01802.0-01	120VAC, 60Hz	69 cfm (117m ³ /h)	46 cfm (78m³/h)	15W	39dB (A)	3.4" (86mm)	6.9 x 6.9"	2.9 lbs. (1.30kg)	UL File No. E234324

Technical Data	
Axial fan, ball bearing	service life min. 50,000h at 77°F (25°C) and 65% RH
	aluminum fan body, plastic rotor
Connection	2 wires w/ cage clamps, AWG 14 (2.5mm²), length 4" (100mm)
Housing (filter fan and exhaust filter)	Plastic, UL 94V-0, light grey
Hood (filter fan and exhaust filter)	Plastic, UL 94V-0, light grey;
	weather proof and UV light resistant according to UL 746C (f1)
Mounting frame	with double-sided industrial adhesive for mounting to the
	outside of enclosure; certain operating circumstances may
	make the additional use of screws necessary; cut-out
	template included
Filter media rating	G4 acc. to DIN EN 779, filtering degree 94%
Filter material	synthetic fiber with progressive construction, temperature
	resistant to 212°F, self-extinguishing class F1;
	moisture resistant to 100% RH, reusable - can be cleaned by
	washing or vacuuming
Operating / Storage temperature	-49 to +158°F (-45 to +70°C)
Protection class	I (grounded)

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 localized heat pockets and protects the electronic components from overheating. The plastic used for the hood of this filter fan series is highly weather proof, as well as impact and UV light resistant.

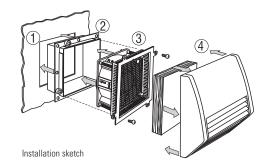
IP54* *Using fine filter media type F5 increases the protection type to IP55, but reduces the air volume

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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.

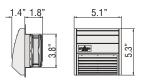
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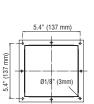
Dimensional Drawing

Ventilating



Drilling template for mounting frame





Time-saving assembly and maintenance

Affix using screws if necessary.

2.3

1.6

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

grease. A template for the enclosure cut-out is included with the filter fan.

net opening. The frame stays permanently in the cabinet.

4.) Insert the filter mat in the hood. Clip on. Finished.

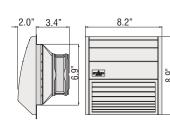
6.2"

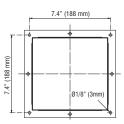
1.) Make cut-out in the cabinet wall. The cut edge of the cabinet opening should be free of dirt, filings and

2.) Remove protective film from the sealing strips on the mounting frame. Press mounting frame into the cabi-

3.) Electrically connect the axial fan using the cage clamp connectors. Push the unit into the mounting frame.

To change the filter mat, simply remove the filter hood, insert the new mat and snap the hood back again. No tools are required. Maintenance of the fan can easily be performed without removing the mounting frame (2).





EF 118 Exhaust Filter

Part No.	Mounting depth	Enclosure cut-out	Weight (approx.)	Filter mat	Protection type	Approvals
11800.0-00	0.6" (16mm)	3.8 x 3.8"	0.6 lbs. (0.30kg)	G4 acc. to DIN EN 779, filtering degree 94%	IP54*	UL File No. E234324
11801.0-00	0.6" (16mm)	4.9 x 4.9"	0.8 lbs. (0.40kg)	G4 acc. to DIN EN 779, filtering degree 94%	IP54*	UL File No. E234324
11802.0-00	0.6" (16mm)	6.9 x 6.9"	1.3 lbs. (0.60kg)	G4 acc. to DIN EN 779, filtering degree 94%	IP54*	UL File No. E234324

*using fine filter mats type F5 increases the protection type to IP55, but reduces the air volume.

FM 086 / FFM 086 Filter Mats

Filter mat	3.5 x 3.5" (89 x 89mm)	4.6 x 4.6" (118 x 118mm)	6.6 x 6.6" (168 x 168mm)
G4 (1 packing unit = 3 pcs.)	Part No. 08600.0-00	Part No. 08601.0-00	Part No. 08602.0-00
F5 (1 packing unit = 3 pcs.)	Part No. 08603.0-00	Part No. 08604.0-00	Part No. 08605.0-00

FFLC 218 Filter Fan with Airflow Monitor (Normally Closed)

FN	Airflow monitor integrated in
	finger guard of filter fan
	(Part No. 21800.0-00 shown)

For technical data regarding the integrated Airflow Monitor, please see LC 013/LCF 013 (Normally Closed, Normally Open)

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Enclosure cut-out	Weight (approx.)
21800.0-00	230VAC, 50Hz1)	12 cfm (21m³/h)	9 cfm (16m³/h)	13W	31dB (A)	1.8" (45mm)	3.8 x 3.8"	1.3 lbs. (0.60kg)
21800.0-01	120VAC, 60Hz	14 cfm (24m ³ /h)	11 cfm (18m³/h)	13W	31dB (A)	1.8" (45mm)	3.8 x 3.8"	1.3 lbs. (0.60kg)
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21802.0-00	230VAC, 50Hz1)	60 cfm (102m ³ /h)	40 cfm (68m³/h)	15W	39dB (A)	3.4" (86mm)	6.9 x 6.9"	2.9 lbs. (1.30kg)
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