

FILTER FAN PLUS FPI/FPO 018 | up to 24 m³/h (92 x 92 mm)

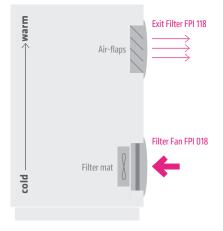


- > New air-flap outlet technology for high airflow
- > Easy mounting
- Protection type test/Environmental rating by independent testing institutes (VDE and UL)
- > Two systems for optimal airflow (FPI/FPO)
- > Standard enclosure cut-out sizes (5 sizes)
- > One filter mat

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 may also be used outdoors with appropriate protective measures or when equipped with weather proof accessories, e.g. Hose-proof Hood FFH 086.

SYSTEM FPI



TECHNICAL DATA

Axial fan, ball bearing

Casing, hood, flaps

Enclosure cut-out

Mounting frame

Filter mat

Approvals Note

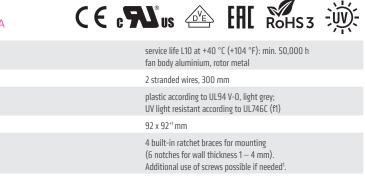
Filter material

Operating/Storage temperature

Environmental rating UL/NEMA

Operating/Storage humidity Protection type/Protection class

Connection



ISO coarse 55% acc. to ISO 16890 (G3), initial gravimetric arrestance 57 % synthetic fibre with progressive construction, temperature resistant to +100 °C, self-extinguishing class F1, moisture resistant to 100 % RH, reusable -40 to +70 °C (-40 to +158 °F) max. 90 % RH (non-condensing) IP54 / I (earthed)

> UL TYPE 12 / NEMA 12 VDE, UL File No. E234324, EAC

other voltages on request

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

AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

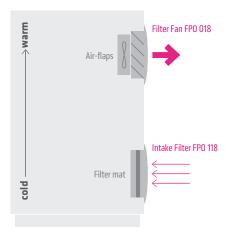
Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Filter mat
01870.0-30	AC 230 V, 50/60 Hz	19 m³/h	13 m³/h	70 mA	12 W	39 db (A)	66 mm	0.6 kg	G3
01870.9-30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

AIRFLOW DIRECTION "IN": EXIT FILTER FPI 118

Art. No.	Art. No. Depth in enclosure		Air outlet	
11870.0-00	29 mm	0.2 kg	air-flap outlet technology	



SYSTEM FPO



AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

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

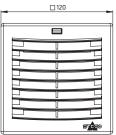
AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

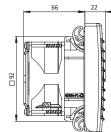
Art. No.	Depth in enclosure	Weight (approx.)	Filter mat
11880.0-30	22 mm	0.2 kg	ISO coarse 55% acc. to ISO 16890 (G3), initial gravimetric arrestance 57 $\%$

FILTER MAT FM 086

Filter class	84 x 84 mm	Initial gravimetric arrestance	1 packing unit
ISO coarse 55% acc. to ISO 16890 (G3)	Art. No. 08633.0-00	57 %	5 pieces

TECHNICAL DRAWINGS



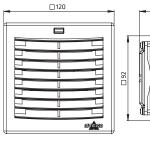


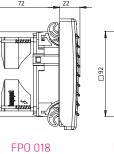
FPI 018

□ 92 ⁺¹ 0

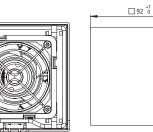
092

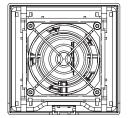
FPI 118





FPO 118





ENCLOSURE CUT-OUT

ENCLOSURE CUT-OUT