

FILTER FAN PLUS - DC LINE

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



- > New air-flap outlet technology for high airflow
- > Protection type test/Environmental rating by independent testing institutes (VDE and UL)
- > Easy mounting
- > Two systems for optimal airflow (FPI/FPO)
- > Standard enclosure cut-out 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 benefits of our Filter Fan Plus series are described in detail in the catalogue on page 50/51.

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.

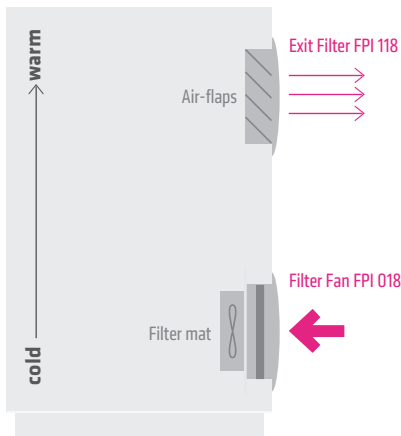


TECHNICAL DATA

Axial fan, ball bearing	service life L10 at +40 °C (+104 °F): min. 70,000 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	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 ¹ .
Filter mat	ISO coarse 55 % acc. to ISO 16890 (G3), initial gravimetric arrestance 57 %
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	< 90 % RH (non-condensing)
Protection type/Protection class with Hose-proof Hood FFH 086	IP54 / II (double insulated) IP56 / II (double insulated)
Environmental rating UL/NEMA with Hose-proof Hood FFH 086	UL TYPE 12 / NEMA 12 UL TYPE 3, 3R, 4, 4X
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

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

SYSTEM FPI



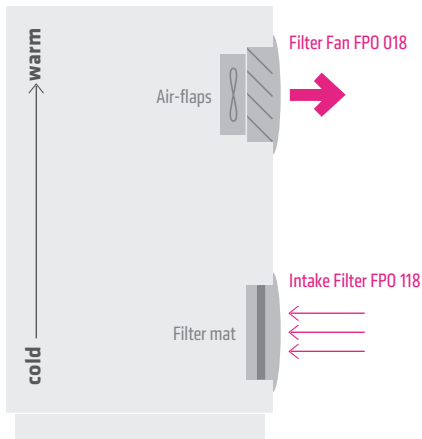
AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

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	Weight (approx.)	Filter mat
01870.2-30	DC 24 V	22 m ³ /h	16 m ³ /h	113 mA	2.7 W	49 dB (A)	59 mm	0.3 kg	G3
01870.1-30	DC 48 V	23 m ³ /h	17 m ³ /h	63 mA	3.0 W	51 dB (A)	59 mm	0.3 kg	G3

AIRFLOW DIRECTION "IN": EXIT FILTER FPI 118

Art. No.	Depth in enclosure	Weight (approx.)	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	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Air outlet
01880.2-00	DC 24 V	31 m ³ /h	17 m ³ /h	113 mA	2.7 W	48 dB (A)	66 mm	0.3 kg	air-flaps
01880.1-00	DC 48 V	33 m ³ /h	18 m ³ /h	63 mA	3.0 W	49 dB (A)	66 mm	0.3 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 %

HOSE-PROOF HOOD FFH 086

Art. No.	Cutout usable for FPI/FPO 018	Dimensions L x B x H	Max. covered area (X x Y)	Weight (approx)
08670.0-00	92 x 92 mm	214 x 195 x 48 mm	143 x 130 mm	0.8 kg

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

