

FILTER FAN PLUS

FPI/FPO | 3.62 X 3.62" (92 X 92 MM)



- > New air-flap outlet technology for high airflow
- > Easy mounting
- > Protection type/Environmental ratings by independent testing agencies (VDE & UL)
- > Two optional systems for optimal airflow (FPI/FPO)
- > Industry-common enclosure cut-out sizes (5 sizes)
- > Single filter mat system design

Filter fans are used to provide "cooling" by forced air-circulation in enclosures and cabinets containing electrical, electronic and other components. The interior temperature of an enclosure can be reduced by channelling cooler, filtered outside air into the enclosure, thus expelling hot inside air. The resulting airflow prevents formation of localized hot pockets and protects electronic components from overheating.

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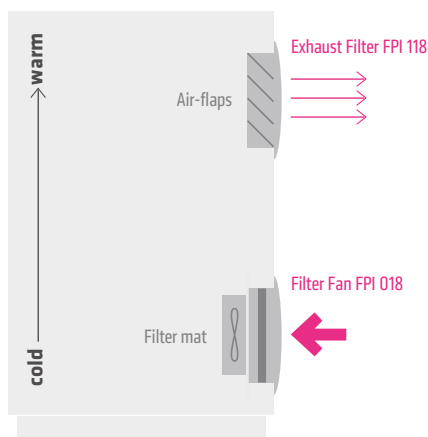
TECHNICAL DATA



Axial fan, ball bearing	service life L10 at +104 °F (+40 °C): min. 50,000 h fan body aluminum, metal impeller
Connection	2 stranded wires, 11.8" (300 mm) long
Housing, hood, flaps	plastic UL 94V-0, light grey; UV light resistant according to UL 746C (f1)
Enclosure cut-out	3.62 x 3.62 ^{+0.04} inches (92 x 92 ⁺¹ mm)
Mounting frame	4 built-in ratchet push levers for mounting (6 ratchet stops to accommodate for wall thicknesses Gauge 9 to 19 or 1-4 mm). Additional screw mounting possible if needed ¹ .
Filter mat	G3 acc. to DIN EN 779, average arrestance A _g 84 %
Filter material	synthetic mesh with progressive construction, temperature resistant to +212 °F (+100 °C), self-extinguishing class F1, moisture resistant to 100 % RH, reusable
Operating/Storage temperature	-40 to +158 °F (-40 to +70 °C)
Operating/Storage humidity	max. 90 % RH (non-condensing)
Protection type/Protection class	IP54 / I (grounded)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

¹ Drilling hole markings for screw mounting are indicated on mounting frame.

SYSTEM FPI



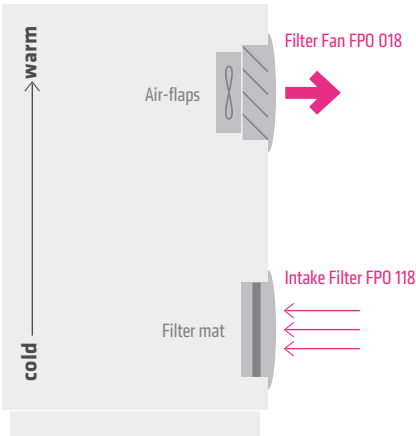
AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Filter mat
01870.0-30	AC 230 V, 50/60 Hz	11.2 cfm (19 m³/h)	7.7 cfm (13 m³/h)	70 mA	12 W	39 dB (A)	2.6" (66 mm)	1.3 lbs. (0.6 kg)	G3
01870.9-30	AC 115 V, 50/60 Hz	13.5 cfm (23 m³/h)	9.4 cfm (16 m³/h)	115 mA	11 W	43 dB (A)	2.6" (66 mm)	1.3 lbs. (0.6 kg)	G3

AIRFLOW DIRECTION "IN": EXHAUST FILTER FPI 118

Part No.	Mounting depth	Weight (approx.)	Air outlet
11870.0-00	1.1" (29 mm)	0.4 lbs. (0.2 kg)	air-flap outlet technology

SYSTEM FPO



AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Air outlet
01880.0-00	AC 230 V, 50/60 Hz	14.1 cfm (24 m ³ /h)	8.8 cfm (15 m ³ /h)	70 mA	12 W	38 dB (A)	2.8" (72 mm)	1.3 lbs. (0.6 kg)	air-flaps
01880.9-00	AC 115 V, 50/60 Hz	18.8 cfm (32 m ³ /h)	11.2 cfm (19 m ³ /h)	115 mA	12 W	41 dB (A)	2.8" (72 mm)	1.3 lbs. (0.6 kg)	air-flaps

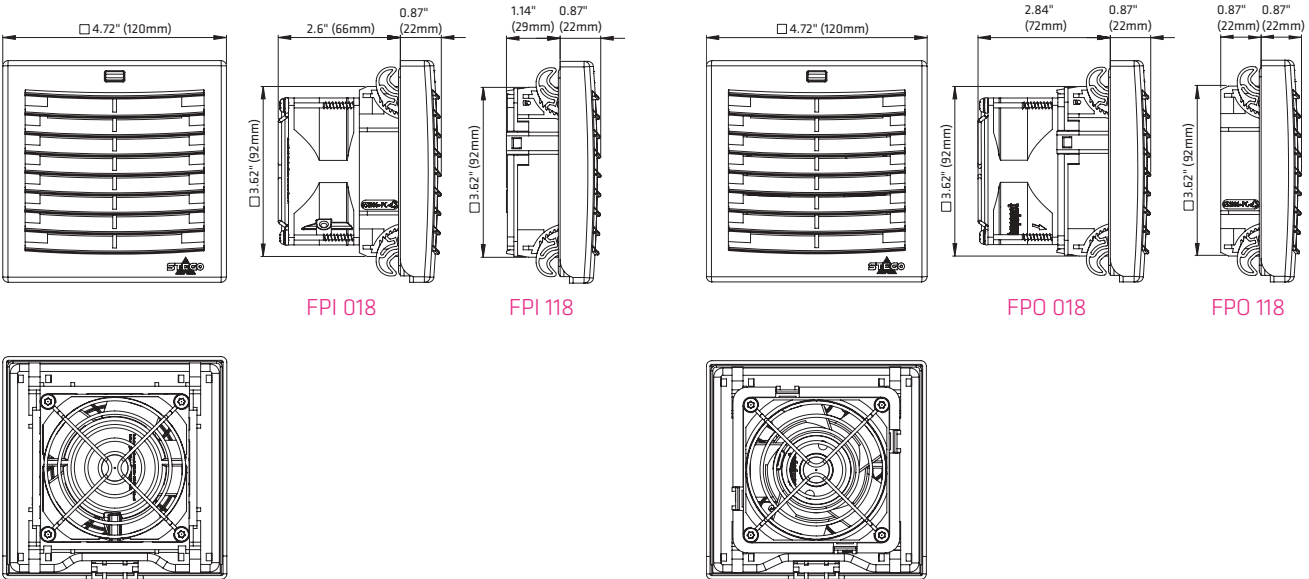
AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Part No.	Mounting depth	Weight (approx.)	Filter mat
11880.0-30	0.9" (22 mm)	0.4 lbs. (0.2 kg)	G3 acc. to DIN EN 779, average arrestance A _s 84 %

FILTER MAT FM 086

Filter class	3.31 x 3.31" (84 x 84 mm)	Average arrestance A _s	1 packing unit
G3 acc. to DIN EN 779	Part No. 08633.0-00	84 %	5 pieces

DIMENSIONED DRAWINGS



FILTER FAN PLUS

FPI/FPO | 4.88 x 4.88" (124 x 124 MM)



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- > Easy mounting
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- > Two optional systems for optimal airflow (FPI/FPO)
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- > Single filter mat system design

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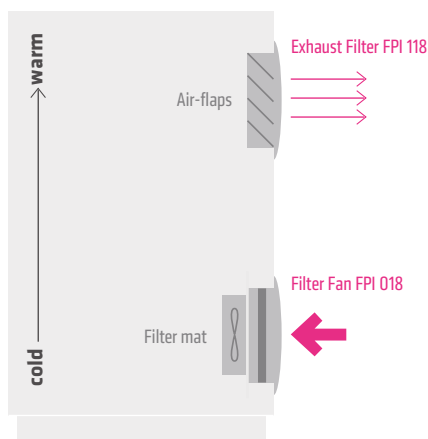
TECHNICAL DATA



Axial fan, ball bearing	service life L10 at +104 °F (+40 °C): min. 37,000 h fan body aluminum, metal impeller
Connection	2 stranded wires, 11.8" (300 mm) long
Housing, hood, flaps	plastic UL 94V-0, light grey; UV light resistant according to UL 746C (f1)
Enclosure cut-out	4.88 x 4.88 ^{+0.04} inches (124 x 124 ⁺¹ mm)
Mounting frame	4 built-in ratchet push levers for mounting (6 ratchet stops to accommodate for wall thicknesses Gauge 9 to 19 or 1-4 mm). Additional screw mounting possible if needed ¹ .
Filter mat	G3 acc. to DIN EN 779, average arrestance A _g 84 %
Filter material	synthetic mesh with progressive construction, temperature resistant to +212 °F (+100 °C), self-extinguishing class F1, moisture resistant to 100 % RH, reusable
Operating/Storage temperature	-40 to +158 °F (-40 to +70 °C)
Operating/Storage humidity	max. 90 % RH (non-condensing)
Protection type/Protection class	IP54 / I (grounded)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

¹ Drilling hole markings for screw mounting are indicated on mounting frame.

SYSTEM FPI



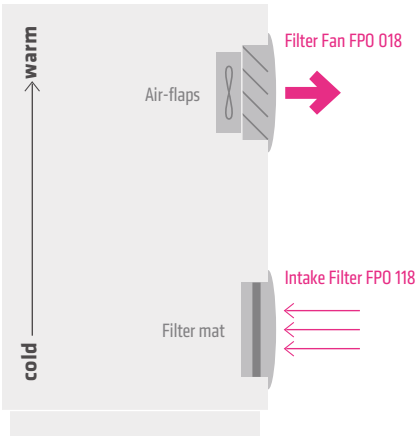
AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Filter mat
01871.0-30	AC 230 V, 50/60 Hz	30.6 cfm (52 m ³ /h)	24.7 cfm (42 m ³ /h)	120 mA	19 W	49 dB (A)	2.6" (66 mm)	1.8 lbs. (0.8 kg)	G3
01871.9-30	AC 115 V, 50/60 Hz	36.5 cfm (62 m ³ /h)	30.0 cfm (51 m ³ /h)	230 mA	18 W	53 dB (A)	2.6" (66 mm)	1.8 lbs. (0.8 kg)	G3

AIRFLOW DIRECTION "IN": EXHAUST FILTER FPI 118

Part No.	Mounting depth	Weight (approx.)	Air outlet
11871.0-00	1.4" (35 mm)	0.7 lbs. (0.3 kg)	air-flap outlet technology

SYSTEM FPO



AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Air outlet
01881.0-00	AC 230 V, 50/60 Hz	571 cfm (97 m ³ /h)	27.7 cfm (47 m ³ /h)	120 mA	19 W	49 dB (A)	3.1" (79 mm)	2.0 lbs. (0.9 kg)	air-flaps
01881.9-00	AC 115 V, 50/60 Hz	68.9 cfm (117 m ³ /h)	34.1 cfm (58 m ³ /h)	230 mA	18 W	52 dB (A)	3.1" (79 mm)	2.0 lbs. (0.9 kg)	air-flaps

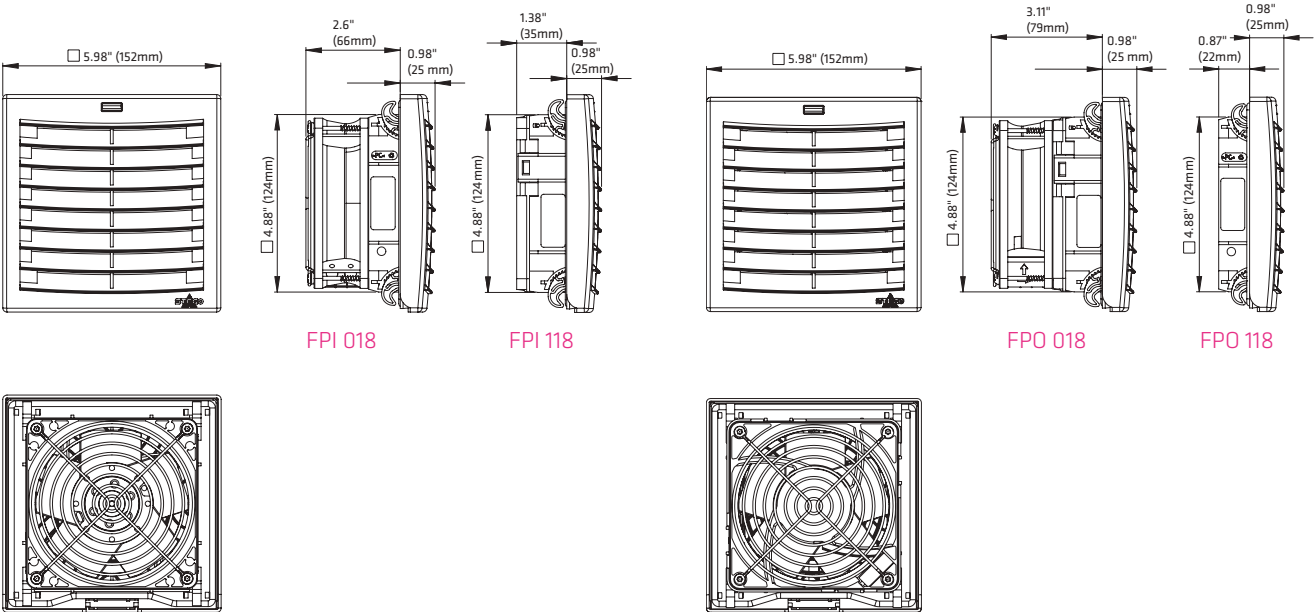
AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Part No.	Mounting depth	Weight (approx.)	Filter mat
11881.0-30	0.9" (22 mm)	0.4 lbs. (0.2 kg)	G3 acc. to DIN EN 779, average arrestance A _s 84 %

FILTER MAT FM 086

Filter class	4.65 x 4.65" (118 x 118 mm)	Average arrestance A _s	1 packing unit
G3 acc. to DIN EN 779	Part No. 08634.0-00	84 %	5 pieces

DIMENSIONED DRAWINGS



FILTER FAN PLUS

FPI/FPO | 6.93 X 6.93" (176 X 176 MM)



- > New air-flap outlet technology for high airflow
- > Easy mounting
- > Protection type/Environmental ratings by independent testing agencies (VDE & UL)
- > Two optional systems for optimal airflow (FPI/FPO)
- > Industry-common enclosure cut-out sizes (5 sizes)
- > Single filter mat system design

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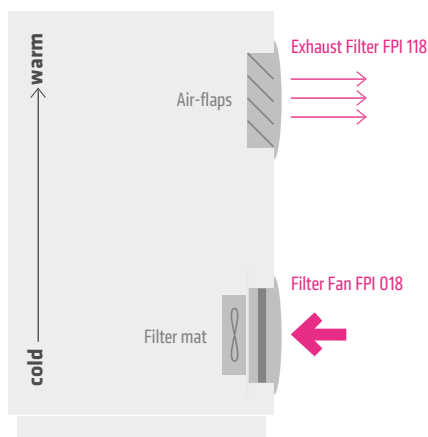
TECHNICAL DATA



Axial fan, ball bearing	service life L10 at +104 °F (+40 °C): min. 65,000 h fan body aluminum, metal impeller
Connection	3-pole clamp for AWG 14 (2.5 mm ²), clamping torque 0.8 Nm max.
Housing, hood, flaps	plastic UL 94V-0, light grey; UV light resistant according to UL 746C (f1)
Enclosure cut-out	6.93 x 6.93 ^{+0.04} inches (176 x 176 ⁺¹ mm)
Mounting frame	4 built-in ratchet push levers for mounting (6 ratchet stops to accommodate for wall thicknesses Gauge 9 to 19 or 1-4 mm). Additional screw mounting possible if needed ¹ .
Filter mat	G3 acc. to DIN EN 779, average arrestance A _s 84 %
Filter material	synthetic mesh with progressive construction, temperature resistant to +212 °F (+100 °C), self-extinguishing class F1, moisture resistant to 100 % RH, reusable
Operating temperature	50 Hz: -13 to +122 °F (-25 to +50 °C) 60 Hz: -13 to +158 °F (-25 to +70 °C)
Storage temperature	-40 to +158 °F (-40 to +70 °C)
Operating/Storage humidity	max. 90 % RH (non-condensing)
Protection type/Protection class	IP54 / I (grounded)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

¹ Drilling hole markings for screw mounting are indicated on mounting frame.

SYSTEM FPI



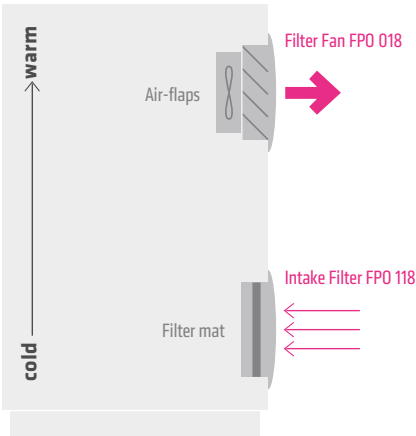
AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Filter mat
01872.0-30	AC 230 V, 50/60 Hz	100 cfm (170 m ³ /h)	81.8 cfm (139 m ³ /h)	310/250 mA	45 W	55 dB (A)	4.6" (117 mm)	3.5 lbs. (1.6 kg)	G3
01872.9-30	AC 115 V, 50/60 Hz	120 cfm (204 m ³ /h)	110.1 cfm (187 m ³ /h)	560/470 mA	38 W	58 dB (A)	4.6" (117 mm)	3.5 lbs. (1.6 kg)	G3

AIRFLOW DIRECTION "IN": EXHAUST FILTER FPI 118

Part No.	Mounting depth	Weight (approx.)	Air outlet
11872.0-00	1.7" (43 mm)	0.9 lbs. (0.4 kg)	air-flap outlet technology

SYSTEM FPO



AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Air outlet
01882.0-00	AC 230 V, 50/60 Hz	154.8 cfm (263 m ³ /h)	80.6 cfm (137 m ³ /h)	310/250 mA	45 W	56 dB (A)	4.6" (117 mm)	3.5 lbs. (1.6 kg)	air-flaps
01882.9-00	AC 115 V, 50/60 Hz	184.2 cfm (313 m ³ /h)	97.7 cfm (166 m ³ /h)	560/470 mA	38 W	60 dB (A)	4.6" (117 mm)	3.5 lbs. (1.6 kg)	air-flaps

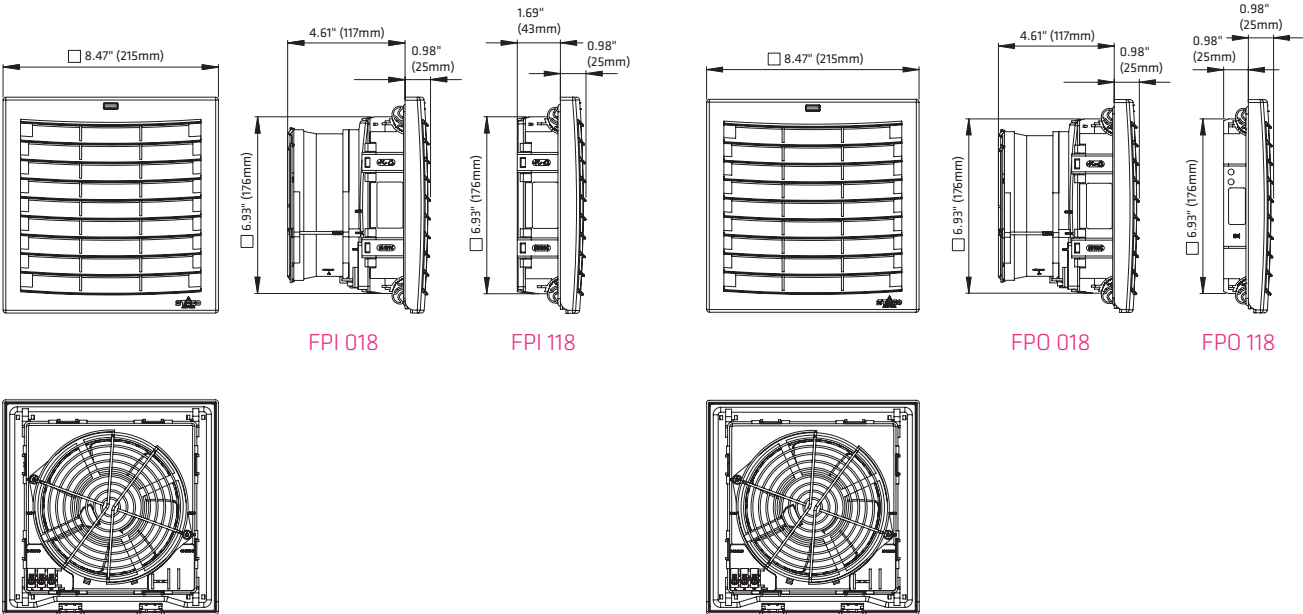
AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Part No.	Mounting depth	Weight (approx.)	Filter mat
11882.0-30	1.0" (25 mm)	0.9 lbs. (0.4 kg)	G3 acc. to DIN EN 779, average arrestance A _s 84 %

FILTER MAT FM 086

Filter class	6.61 x 6.61" (168 x 168 mm)	Average arrestance A _s	1 packing unit
G3 acc. to DIN EN 779	Part No. 08635.0-00	84 %	5 pieces

DIMENSIONED DRAWINGS



FILTER FAN PLUS

FPI/FPO | 8.78 x 8.78" (223 x 223 mm)



- > New air-flap outlet technology for high airflow
- > Easy mounting
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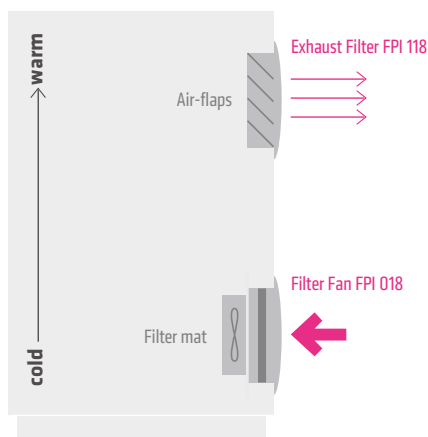
TECHNICAL DATA



Axial fan, ball bearing	service life L10 at +104 °F (+40 °C): min. 56,000 h metal impeller
Connection	3-pole clamp for AWG 14 (2.5 mm ²), clamping torque 0.8 Nm max.
Housing, hood, flaps	plastic UL 94V-0, light grey; UV light resistant according to UL 746C (f1)
Enclosure cut-out	8.78 x 8.78 ^{+0.04} inches (223 x 223 ⁺¹ mm)
Mounting frame	4 built-in ratchet push levers for mounting (6 ratchet stops to accommodate for wall thicknesses Gauge 9 to 19 or 1-4 mm). Additional screw mounting possible if needed ¹ .
Filter mat	G3 acc. to DIN EN 779, average arrestance A _s 84 %
Filter material	synthetic mesh with progressive construction, temperature resistant to +212 °F (+100 °C), self-extinguishing class F1, moisture resistant to 100 % RH, reusable
Operating temperature	-13 to +149 °F (-25 to +65 °C)
Storage temperature	-40 to +158 °F (-40 to +70 °C)
Operating/Storage humidity	max. 75 % RH (non-condensing)
Protection type/Protection class	IP54 / I (grounded)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

¹ Drilling hole markings for screw mounting are indicated on mounting frame.

SYSTEM FPI



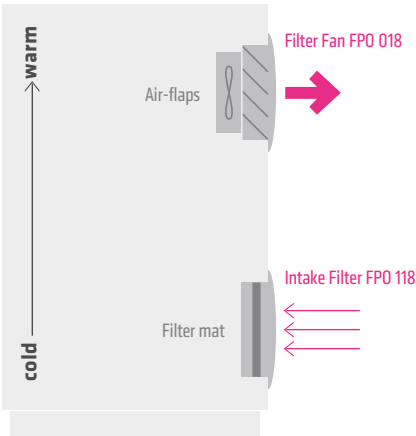
AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Filter mat
01873.0-30	AC 230 V, 50/60 Hz	179.5 cfm (305 m ³ /h)	159.5 cfm (271 m ³ /h)	300/340 mA	64 W	64 dB (A)	5.8" (147 mm)	5.3 lbs. (2.4 kg)	G3
01873.9-30	AC 115 V, 50/60 Hz	195.4 cfm (332 m ³ /h)	172.5 cfm (293 m ³ /h)	600/700 mA	81 W	67 dB (A)	5.8" (147 mm)	5.3 lbs. (2.4 kg)	G3

AIRFLOW DIRECTION "IN": EXHAUST FILTER FPI 118

Part No.	Mounting depth	Weight (approx.)	Air outlet
11873.0-00	1.8" (46 mm)	1.3 lbs. (0.6 kg)	air-flap outlet technology

SYSTEM FPO



AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Air outlet
01883.0-00	AC 230 V, 50/60 Hz	315.5 cfm (536 m³/h)	165.4 cfm (281 m³/h)	300/340 mA	64 W	65 dB (A)	3.1" (147 mm)	5.3 lbs. (2.4 kg)	air-flaps
01883.9-00	AC 115 V, 50/60 Hz	342.0 cfm (581 m³/h)	182.5 cfm (310 m³/h)	600/700 mA	81 W	68 dB (A)	3.1" (147 mm)	5.3 lbs. (2.4 kg)	air-flaps

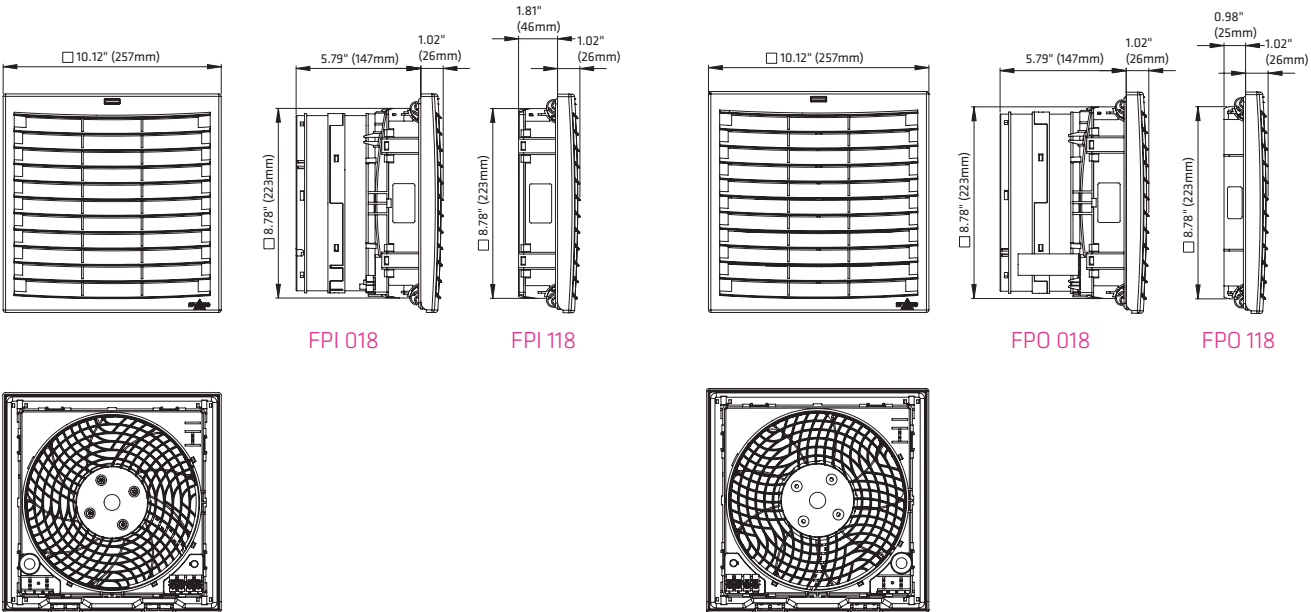
AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Part No.	Mounting depth	Weight (approx.)	Filter mat
11883.0-30	1.0" (25 mm)	1.1 lbs. (0.5 kg)	G3 acc. to DIN EN 779, average arrestance A _s 84 %

FILTER MAT FM 086

Filter class	8.46 x 8.46" (215 x 215 mm)	Average arrestance A _s	1 packing unit
G3 acc. to DIN EN 779	Part No. 08636.0-00	84 %	5 pieces

DIMENSIONED DRAWINGS



FILTER FAN PLUS

FPI/FPO | 11.46 X 11.46" (291 X 291 MM)



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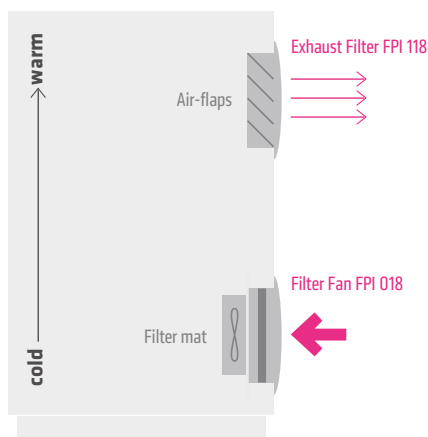
TECHNICAL DATA



Axial fan, ball bearing	service life L10 at +104 °F (+40 °C): min. 76,000 h metal impeller
Connection	3-pole clamp for AWG 14 (2.5 mm ²), clamping torque 0.8 Nm max.
Housing, hood, flaps	plastic UL 94V-0, light grey; UV light resistant according to UL 746C (f1)
Enclosure cut-out	11.46 x 11.46 ^{+0.04} inches (291 x 291 ¹ mm)
Mounting frame	4 built-in ratchet push levers for mounting (6 ratchet stops to accommodate for wall thicknesses Gauge 9 to 19 or 1-4 mm). Additional screw mounting possible if needed ¹ .
Filter mat	G3 acc. to DIN EN 779, average arrestance A _s 84 %
Filter material	synthetic mesh with progressive construction, temperature resistant to +212 °F (+100 °C), self-extinguishing class F1, moisture resistant to 100 % RH, reusable
Operating temperature	50 Hz: -13 to +131 °F (-25 to +55 °C) 60 Hz: -13 to +95 °F (-25 to +35 °C)
Storage temperature	-40 to +158 °F (-40 to +70 °C)
Operating/Storage humidity	max. 75 % RH (non-condensing)
Protection type/Protection class	IP54 / I (grounded)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
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Note	other voltages on request

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SYSTEM FPI



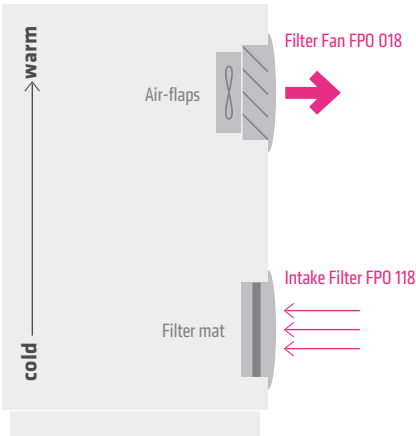
AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Filter mat
01874.0-30	AC 230 V, 50/60 Hz	254.8 cfm (433 m ³ /h)	219.5 cfm (373 m ³ /h)	400/480 mA	95 W	62 dB (A)	6.3" (160 mm)	6.8 lbs. (3.1 kg)	G3
01874.9-30	AC 115 V, 50/60 Hz	231.9 cfm (394 m ³ /h)	199.5 cfm (339 m ³ /h)	660/800 mA	90 W	61 dB (A)	6.3" (160 mm)	6.8 lbs. (3.1 kg)	G3

AIRFLOW DIRECTION "IN": EXHAUST FILTER FPI 118

Part No.	Mounting depth	Weight (approx.)	Air outlet
11874.0-00	2.0" (50 mm)	2.2 lbs. (1.0 kg)	air-flap outlet technology

SYSTEM FPO



AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Part No.	Operating voltage	Air volume, free blowing	Air volume with exhaust filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Mounting depth	Weight (approx.)	Air outlet
01884.0-00	AC 230 V, 50/60 Hz	427.9 cfm (727 m ³ /h)	243.1 cfm (413 m ³ /h)	400/480 mA	95 W	63 dB (A)	6.3" (160 mm)	7.0 lbs. (3.2 kg)	air-flaps
01884.9-00	AC 115 V, 50/60 Hz	413.8 cfm (703 m ³ /h)	230.1 cfm (391 m ³ /h)	660/800 mA	90 W	62 dB (A)	6.3" (160 mm)	7.0 lbs. (3.2 kg)	air-flaps

AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Part No.	Mounting depth	Weight (approx.)	Filter mat
11884.0-30	1.0" (25 mm)	1.8 lbs. (0.8 kg)	G3 acc. to DIN EN 779, average arrestance A _s 84 %

FILTER MAT FM 086

Filter class	11.14 x 11.14" (283 x 283 mm)	Average arrestance A _s	1 packing unit
G3 acc. to DIN EN 779	Part No. 08637.0-00	84 %	5 pieces

DIMENSIONED DRAWINGS

