

Filter Fan Plus



Air Flap Design

The Stego Filter Fan Plus series employs a new air flap design for the air outlet. The air flaps have less resistance to airflow than an exhaust filter, which allows the Filter Fan Plus system to achieve higher airflow while still preventing the ingress of contaminants. Curved air flaps react to small airflow volumes for maximum opening of flaps. Filter Fan Plus series fans are for indoor use only.

Ratchet Mounting

A ratchet mechanism is used for mounting, providing a high stability and tightness. No mounting screws needed. Prevents enclosure wall deformity when mounting. Solid locking ensures uniform seal.

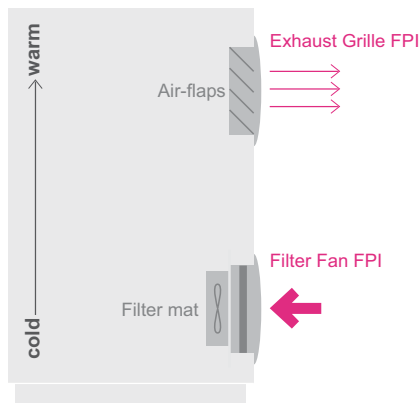


Poured-in-place polyurethane gasket

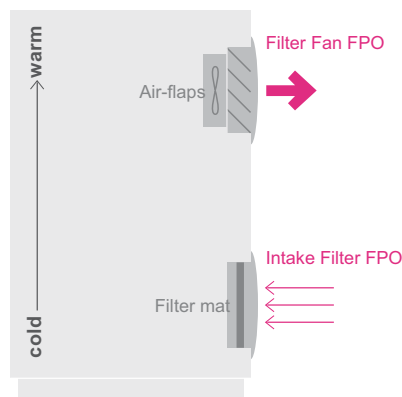


Filter Fan Plus Models: FPI or FPO

FPI systems (airflow direction 'in') use a filter fan in the lower part of the enclosure, ensuring fresh air is fed into the enclosure. The air rises to the top of the enclosure, cooling the internal space and pushing the warm interior air through the exhaust grille near the top. This grille exhausts hot air more effectively, thanks to new air flap outlet technology.



In FPO systems (airflow direction 'out'), the filter fan is located in the upper area of the enclosure to avoid heat buildups. The heat can be diverted quicker from the critical area. An intake grille with a filter in the lower part of the enclosure allows the colder air from the outside to enter.



A common 3 to 3.5 mm screwdriver is used to release the ratchet mechanism.

Filter Fan Plus



Features

- FPI (airflow in) or FPO (airflow out) models
- Air flap outlet technology
- IP54 dust and splash waterproof
- Easy filter change with access provided via the hinged cover
- Impact resistant
- UV light resistant according to UL 746C (f1)
- Flame retardant: UL94 V-0
- Low noise
- 115 and 230VAC models available
- 12, 24, and 48VDC models available
- (4) 6-position ratchet lever mount mechanism will accommodate wall thickness 0.039 - 0.157in (1 - 4mm)

Construction

- Fan body is light gray plastic polycarbonate
- FPI model has an intake filter fan and an exit grille with air flaps
- FPO model has an exit fan with air flaps and an intake grille with filter
- Poured-in-place polyurethane gasket for better seal
- Mounts using built-in ratchet mechanism; no screws needed. (Hardware provided for optional screw mounting. Hole markings for screw mounting are indicated on mounting frame.)

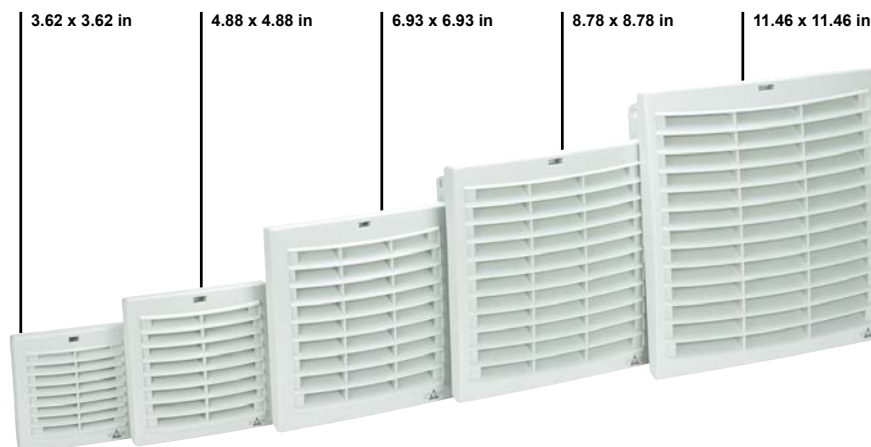
Standards

- All models: IP54, VDE, EAC, CE, UL 12 when using supplied filter
- UL Recognized - file: E234324



Applications

Filter fans provide an optimum climate in enclosures with electrical/electronic components. The interior temperature of enclosures is reduced by channeling cooler filtered outside air into the enclosure, thus expelling heated internal air. The resulting air flow prevents formation of localized heat pockets and protects electronic components from overheating.



Filter Fan Plus



018700-30



118700-00

3.62 x 3.62 in [91.95 mm] Cutout Size

- Storage temperature: -40 to 158°F (-40 to 70°C)
- Operating temperature: -4 to 158°F (-20 to 70°C)
- Connection type: 2 stranded wires, 11.8" (300mm) long, AWG 22
- Service life: AC - 52,500 hrs @ 104°F (40°C) DC - 70,000 hrs @ 104°F (40°C)
- Average arrestance: 84% with provided G3 (coarse) filter
- Replacement filter mats G3 (coarse): [086330-00](#) G4 (medium): [086270-00](#) M5 (fine): [086300-00](#)

Filter Fan Plus - FPI System

Part Number	Price	Description	Filter/ Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018700-30	\$,-1lt1:	Enclosure fan	G3 filter	230 VAC	12W	52 mA	11 CFM	7.7 CFM	42Pa	39 dBA	PDF
018701-30	\$,-1luo:	Enclosure fan	G3 filter	48 VDC	3W	63 mA	14 CFM	10 CFM	45Pa	51 dBA	PDF
018702-30	\$,-1lup:	Enclosure fan	G3 filter	24 VDC	2.7W	113 mA	13 CFM	9.4 CFM	42Pa	49 dBA	PDF
018703-30	\$,-1luq:	Enclosure fan	G3 filter	12 VDC	2.6W	216 mA	13 CFM	10 CFM	48Pa	36 dBA	PDF
018709-30	\$,-1lt2:	Enclosure fan	G3 filter	115 VAC	11W	96 mA	14 CFM	9.4 CFM	60Pa	43 dBA	PDF
118700-00	\$,-1ltt:	Exhaust grille	Air flaps	FPI exhaust grille designed to be used with the FPI fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.



018800-00



118800-30



Filter Fan Plus - FPO System

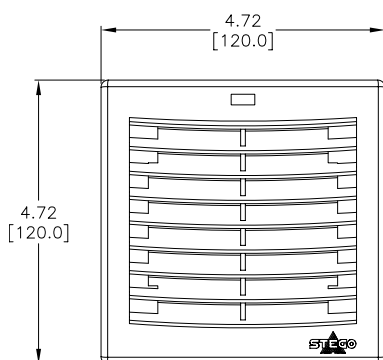
Part Number	Price	Description	Filter/Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018800-00	\$,-1lt3:	Enclosure fan	Air flaps	230 VAC	12W	52 mA	14 CFM	8.8 CFM	42Pa	38 dBA	PDF
018800-40	\$,-1luz:	Enclosure fan	G3 filter	230 VAC	12W	52 mA	11 CFM	7.4 CFM	42Pa	36 dBA	PDF
018801-00	\$,-01luj:	Enclosure fan	Air flaps	48 VDC	3W	63 mA	19 CFM	11 CFM	41Pa	49 dBA	PDF
018802-00	\$,-1luj:	Enclosure fan	Air flaps	24 VDC	2.7W	113 mA	18 CFM	10 CFM	37Pa	48 dBA	PDF
018803-00	\$,-01lu.:	Enclosure fan	Air flaps	12 VDC	2.6W	216 mA	19 CFM	10 CFM	42Pa	36 dBA	PDF
018809-00	\$,-1lt4:	Enclosure fan	Air flaps	115 VAC	11W	96 mA	19 CFM	11 CFM	56Pa	41 dBA	PDF
018809-40	\$,-1lu#:	Enclosure fan	G3 filter	115 VAC	11W	96 mA	14 CFM	9.4 CFM	56Pa	36 dBA	PDF
118800-30	\$,-1ltu:	Intake grille	G3 filter	FPO intake grille designed to be used with the FPO fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.

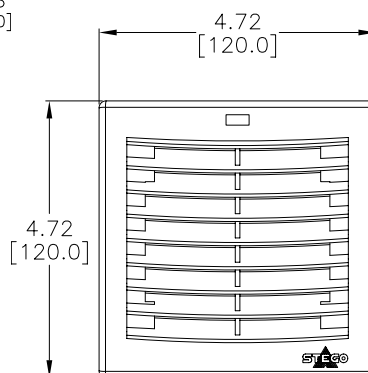
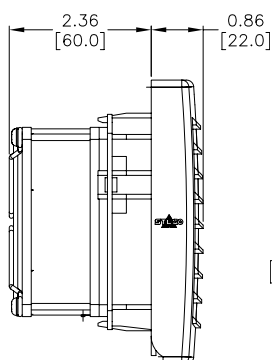
Filter Fan Plus – Dimensions



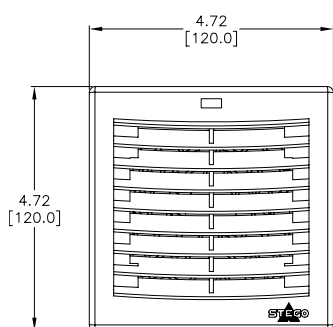
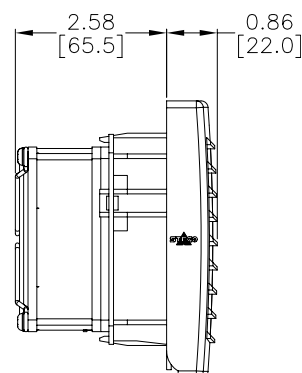
Dimensions



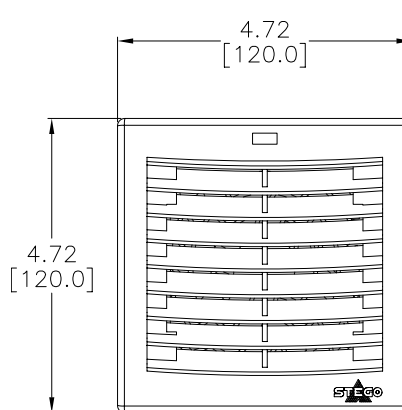
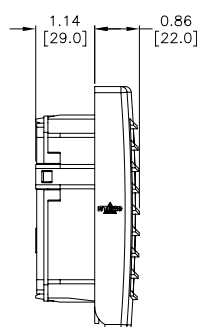
FPI Fan 3.62 x 3.62 in Cutout Size



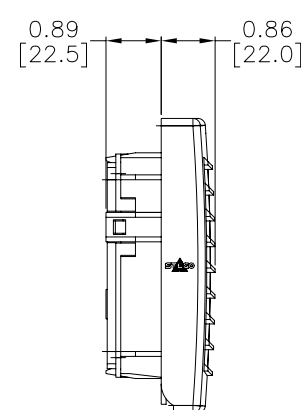
FPO Fan 3.62 x 3.62 in Cutout Size



Exhaust grille for 3.62 x 3.62 in FPI Fan



Intake grille for 3.62 x 3.62 in FPO Fan



Filter Fan Plus



018710-30



118710-00

4.88 x 4.88 in [124 x 124mm] Cutout Size

- Storage temperature: -40 to 158°F (-40 to 70°C)
- Operating temperature: -4 to 158°F (-20 to 70°C)
- Connection type: 2 stranded wires, 11.8" (300mm) long, AWG 22
- Service life: AC - 37,500 hrs @ 104°F (40°C) DC - 65,000 hrs @ 104°F (40°C)
- Average arrestance: 84% with provided G3 (coarse) filter
- Replacement filter mats G3 (coarse): [086330-00](#) G4 (medium): [086270-00](#) M5 (fine): [086300-00](#)

Filter Fan Plus - FPI System

Part Number	Price	Description	Filter/ Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018710-30	\$,-1lt5:	Enclosure fan	G3 filter	230 VAC	19W	83 mA	31 CFM	25 CFM	64Pa	49 dBA	PDF
018711-30	\$,-01lus:	Enclosure fan	G3 filter	48 VDC	4.2W	88 mA	39 CFM	33 CFM	92Pa	58 dBA	PDF
018712-30	\$,-01lut:	Enclosure fan	G3 filter	24 VDC	4.1W	171 mA	39 CFM	33 CFM	87Pa	58 dBA	PDF
018713-30	\$,-01luu:	Enclosure fan	G3 filter	12 VDC	3.8W	316 mA	45 CFM	33 CFM	89Pa	42 dBA	PDF
018719-30	\$,-1lt6:	Enclosure fan	G3 filter	115 VAC	18W	157 mA	37 CFM	30 CFM	70Pa	53 dBA	PDF
118710-00	\$,-1ltv:	Exhaust grille	Air flaps	FPI exhaust grille designed to be used with the FPI fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.



018810-00



118810-30



Filter Fan Plus - FPO System

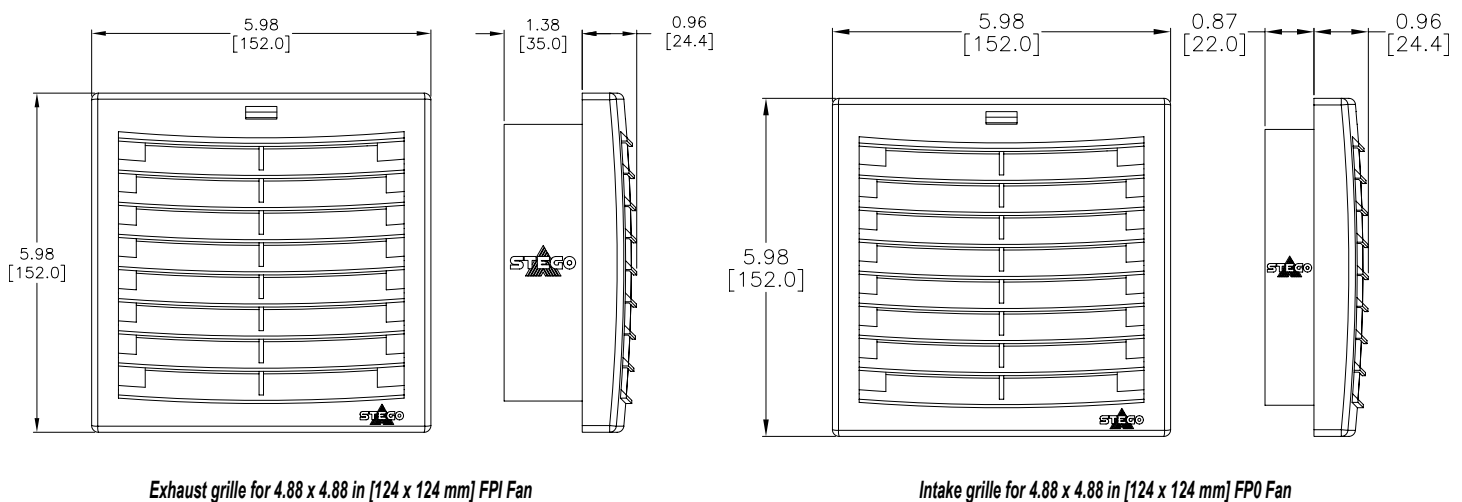
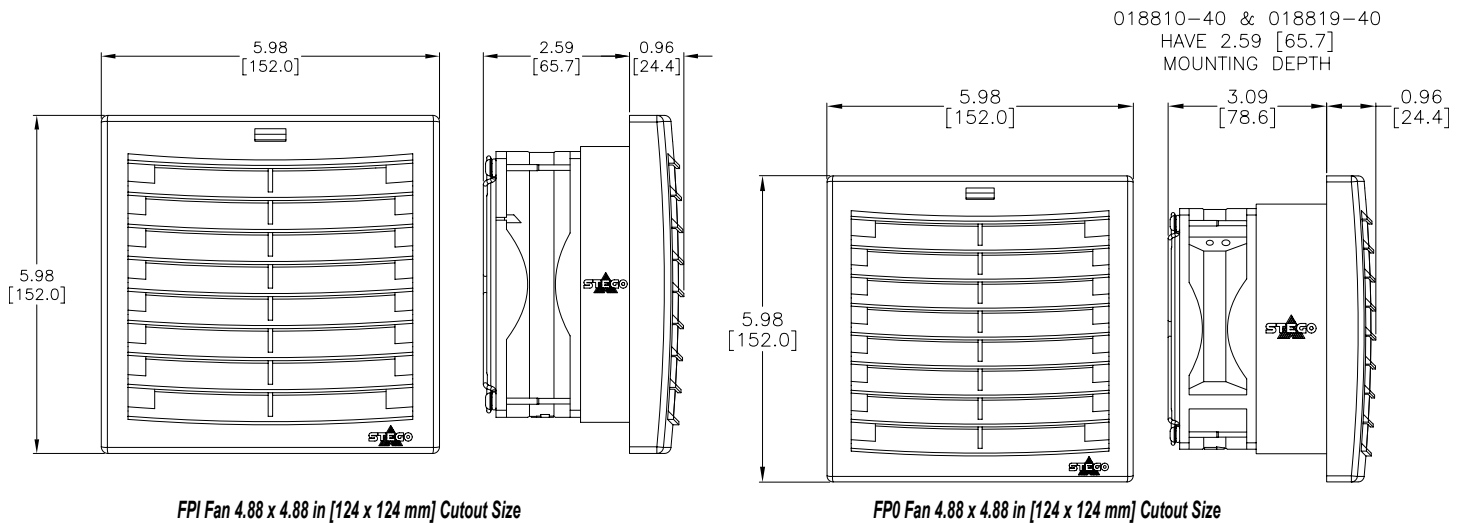
Part Number	Price	Description	Filter/ Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018810-00	\$,-01lt7:	Enclosure fan	Air flaps	230 VAC	19W	83 mA	57 CFM	28 CFM	75Pa	49 dBA	PDF
018810-40	\$,-1lu!:	Enclosure fan	G3 filter	230 VAC	19W	83 mA	32 CFM	22 CFM	64Pa	42 dBA	PDF
018811-00	\$,-01lu?:	Enclosure fan	Air flaps	48 VDC	4.2W	88 mA	74 CFM	37 CFM	92Pa	50 dBA	PDF
018812-00	\$,-01lu,:	Enclosure fan	Air flaps	24 VDC	4.5W	188 mA	70 CFM	37 CFM	88Pa	56 dBA	PDF
018813-00	\$,-01lv0:	Enclosure fan	Air flaps	12 VDC	4.5W	375 mA	70 CFM	36 CFM	88Pa	42 dBA	PDF
018819-00	\$,-01lt8:	Enclosure fan	Air flaps	115 VAC	18W	157 mA	69 CFM	34 CFM	82Pa	52 dBA	PDF
018819-40	\$,-1lv1:	Enclosure fan	G3 filter	115 VAC	18W	157 mA	39 CFM	28 CFM	70Pa	42 dBA	PDF
118810-30	\$,-1ltx:	Intake grille	G3 filter	FPO intake grille designed to be used with the FPO fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.

Filter Fan Plus – Dimensions



Dimensions



Filter Fan Plus



018720-30



118720-00

6.93 x 6.93 in [176 x 176mm] Cutout Size

- Storage temperature: -40 to 158°F (-40 to 70°C)
- Operating temperature: -13 to 158°F (-25 to 70°C)
- Connection type: 3-pole clamp for AWG 14 (2.5 mm²), screw clamp torque 7.1 lb-in (0.8 N-m) max
- Service life: AC - 65,000 hrs @ 104°F (40°C)
DC - 80,000 hrs @ 104°F (40°C)
- Average arrestance: 84% with provided G3 (coarse) filter
- Replacement filter mats G3 (coarse): [086330-00](#) G4 (medium): [086270-00](#)
M5 (fine): [086300-00](#)

Filter Fan Plus - FPI System

Part Number	Price	Description	Filter/ Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018720-30	\$,-01lt9:	Enclosure fan	G3 filter	230 VAC	45W	196 mA	100 CFM	82 CFM	121Pa	55 dBA	PDF
018721-30	\$,-01lv:	Enclosure fan	G3 filter	48 VDC	12W	250 mA	100 CFM	87 CFM	122Pa	63 dBA	PDF
018722-30	\$,-01lv:	Enclosure fan	G3 filter	24 VDC	12W	500 mA	105 CFM	92 CFM	125Pa	63 dBA	PDF
018723-30	\$,-01lv:	Enclosure fan	G3 filter	12 VDC	12W	1000 mA	106 CFM	88 CFM	127Pa	53 dBA	PDF
018729-30	\$,-01lt:	Enclosure fan	G3 filter	115 VAC	38W	330 mA	120 CFM	110 CFM	121Pa	58 dBA	PDF
118720-00	\$,-1lt:	Exhaust grille	Air flaps	FPI exhaust grille designed to be used with the FPI fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.



018820-00



118820-30



Filter Fan Plus - FPO System

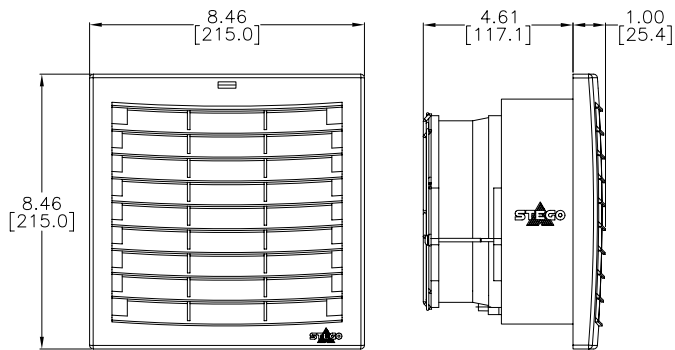
Part Number	Price	Description	Filter/Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018820-00	\$,-01ltb:	Enclosure fan	Air flaps	230 VAC	45W	196 mA	155 CFM	81 CFM	143Pa	56 dBA	PDF
018820-40	\$,-01lv2:	Enclosure fan	G3 filter	230 VAC	45W	196 mA	106 CFM	71 CFM	121Pa	53 dBA	PDF
018821-00	\$,-01lv3:	Enclosure fan	Air flaps	48 VDC	12W	250 mA	163 CFM	86 CFM	146Pa	63 dBA	PDF
018822-00	\$,-01lv4:	Enclosure fan	Air flaps	24 VDC	12W	500 mA	158 CFM	83 CFM	138Pa	63 dBA	PDF
018823-00	Retired	Enclosure fan	Air flaps	12 VDC	12W	1000 mA	164 CFM	82 CFM	150Pa	53 dBA	PDF
018829-00	\$,-01ltc:	Enclosure fan	Air flaps	115 VAC	38W	330 mA	184 CFM	98 CFM	162Pa	60 dBA	PDF
018829-40	\$,-01lv6:	Enclosure fan	G3 filter	115 VAC	38W	330 mA	126 CFM	86 CFM	139Pa	53 dBA	PDF
118820-30	\$,-1ltz:	Intake grille	G3 filter	FPO intake grille designed to be used with the FPO fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.

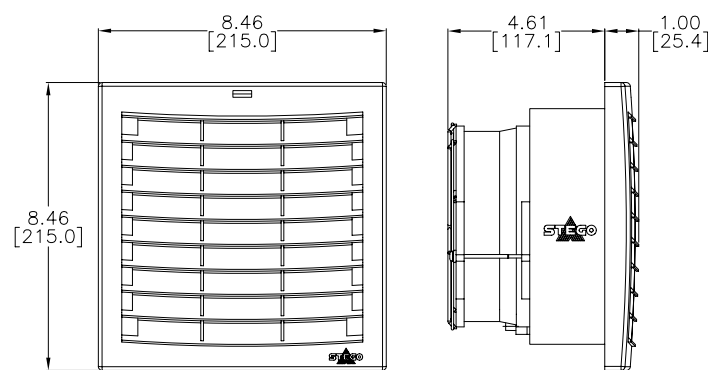
Filter Fan Plus - Dimensions



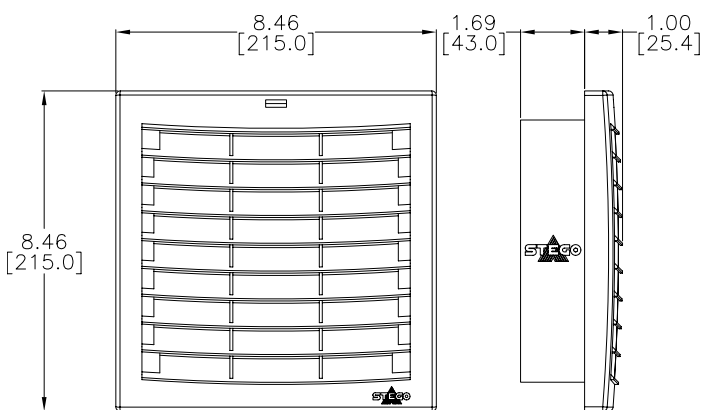
Dimensions



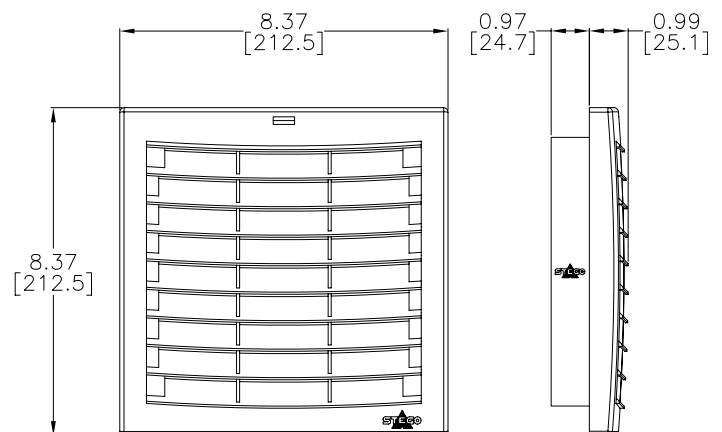
6.93 x 6.93 in [176 x 176 mm] Cutout Size FPI Fan



6.93 x 6.93 in [176 x 176 mm] Cutout Size FPO Fan



Exhaust grille for 6.93 x 6.93 in [176 x 176 mm] FPI Fan



Intake grille for 6.93 x 6.93 in [176 x 176 mm] FPO Fan

Filter Fan Plus



018730-30



118730-00

8.78 x 8.78 in [223 x 223mm] Cutout Size

- Storage temperature: -40 to 158°F (-40 to 70°C)
- Operating temperature: -13 to 149°F (-25 to 65°C)
- Connection type: 3-pole clamp for AWG 14 (2.5 mm²), clamping torque 7.1 lb-in (0.8 N·m) max
- Service life: 56,000 hrs @ 104°F (40°C)
- Average arrestance: 84% with provided G3 (coarse) filter
- Replacement filter mats G3 (coarse): [086300-00](#) G4 (medium): [086270-00](#) M5 (fine): [086300-00](#)

Filter Fan Plus - FPI System

Part Number	Price	Description	Filter/Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018730-30	\$,-01ltd:	Enclosure fan	G3 filter	230 VAC	64W	278 mA	180 CFM	160 CFM	154Pa	64 dBA	PDF
018739-30	\$,-01lte:	Enclosure fan	G3 filter	115 VAC	81W	704 mA	195 CFM	173 CFM	92Pa	67 dBA	PDF
118730-00	\$,-1ltj:	Exhaust grille	Air flaps	FPI exhaust grille designed to be used with the FPI fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.



018830-00



118830-30

Filter Fan Plus - FPO System

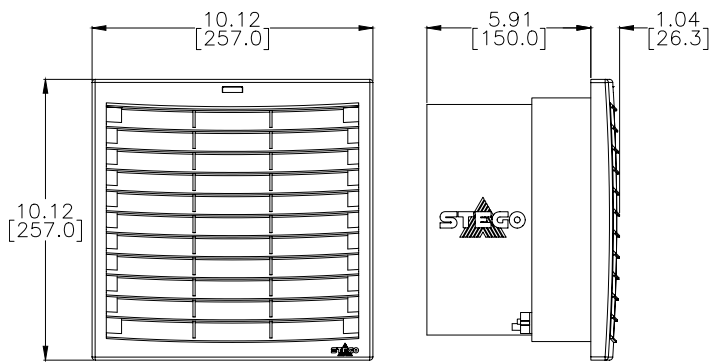
Part Number	Price	Description	Filter/Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018830-00	\$,-01ltf:	Enclosure fan	Air flaps	230 VAC	64W	278 mA	316 CFM	165 CFM	172Pa	65 dbA	PDF
018830-40	\$,-01lv7:	Enclosure fan	G3 filter	230 VAC	64W	278 mA	177 CFM	134 CFM	154Pa	65 dbA	PDF
018839-00	\$,-01ltg:	Enclosure fan	Air flaps	115 VAC	81W	704 mA	342 CFM	182 CFM	103Pa	68 dBA	PDF
018839-40	\$,-01lv8:	Enclosure fan	G3 filter	115 VAC	81W	704 mA	191 CFM	148 CFM	92Pa	68 dBA	PDF
118830-30	\$,-1ltj:	Intake grille	G3 filter	FPO intake grille designed to be used with the FPO fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.

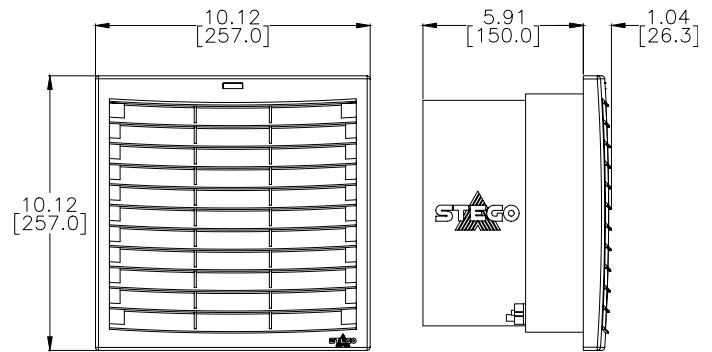
Filter Fan Plus - Dimensions



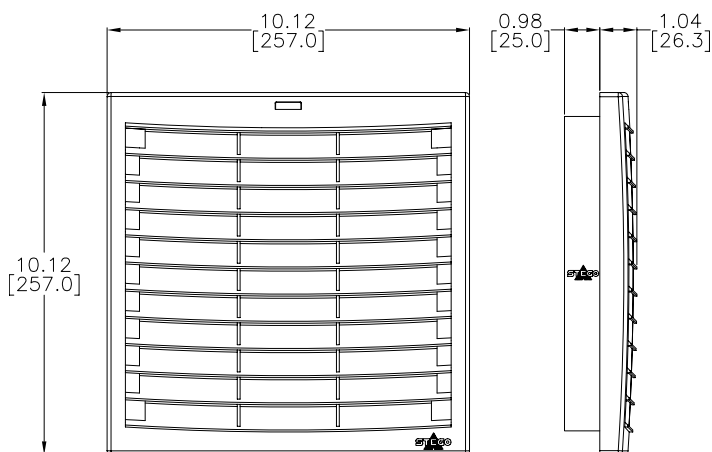
Dimensions



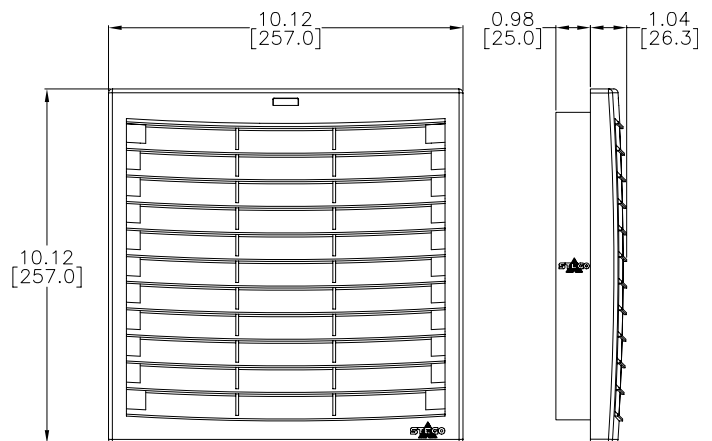
8.78 x 8.78 in [223 x 223mm] Cutout Size FPI Fan



8.78 x 8.78 in [223 x 223mm] Cutout Size FPO Fan



Exhaust grille for 8.78 x 8.78 in [223 x 223mm] FPI Fan



Intake grille for 8.78 x 8.78 in [223 x 223mm] FPO Fan

Filter Fan Plus



018740-30



118740-00

11.46 x 11.46 in [291 x 291mm] Cutout Size

- Storage temperature: -40 to 158°F (-40 to 70°C)
- Operating temperature: -13 to 95°F (-25 to 35°C)
- Connection type: 3-pole clamp for AWG 14 (2.5 mm²), clamping torque 7.1 lb-in (0.8 N-m) max
- Service life: 76,000 hrs @ 104°F (40°C)
- Average arrestance: 84% with provided G3 (coarse) filter
- Replacement filter mats G3 (coarse): [086330-00](#) G4 (medium): [086270-00](#) M5 (fine): [086300-00](#)

Filter Fan Plus - FPI System

Part Number	Price	Description	Filter/Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018740-30	\$,-01lth:	Enclosure fan	G3 filter	230 VAC	95W	413 mA	255 CFM	220 CFM	99Pa	62 dBA	PDF
018740-31	\$,-04nui:	Enclosure fan	G3 filter	230 VAC	140W	700 mA	367 CFM	330 CFM	112Pa	70 dBA	PDF
018749-30	\$,-01lth:	Enclosure fan	G3 filter	115 VAC	90W	783 mA	232 CFM	200 CFM	73Pa	61 dBA	PDF
018749-31	\$04nuk:	Enclosure fan	G3 filter	115 VAC	165W	1450 mA	391 CFM	349 CFM	135Pa	72 dBA	PDF
118740-00	\$,-1lt_:	Exhaust grille	Air flaps	FPI exhaust grille designed to be used with the FPI fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.



018840-00



118840-30



Filter Fan Plus - FPO System

Part Number	Price	Description	Filter/Air Flaps	Operating Voltage	Power Consumption (W)	Current Draw (mA)	FreeAirflow (CFM)	Airflow with Grille and Filters (CFM)	Max Static Pressure (Pa)	Sound Level (dB)	Drawing Link
018840-00	\$,-01ltj:	Enclosure fan	Air flaps	230 VAC	95W	413 mA	428 CFM	243 CFM	107Pa	63 dBA	PDF
018840-01	\$,-04nul:	Enclosure fan	Air flaps	230 VAC	140W	700 mA	595 CFM	353 CFM	70Pa	70 dBA	PDF
018840-40	\$,-01lv9:	Enclosure fan	G3 filter	230 VAC	95W	413 mA	265 CFM	187 CFM	99Pa	63 dBA	PDF
018849-00	\$,-01ltk:	Enclosure fan	Air flaps	115 VAC	90W	783 mA	414 CFM	230 CFM	80Pa	62 dBA	PDF
018849-01	\$04nun:	Enclosure fan	Air flaps	115 VAC	165W	1450 mA	607 CFM	359 CFM	90Pa	71 dBA	PDF
018849-40	\$,-01lva:	Enclosure fan	G3 filter	115 VAC	90W	783 mA	256 CFM	177 CFM	73Pa	62 dBA	PDF
118840-30	\$,-1lt#:	Intake grille	G3 filter	FPO intake grille designed to be used with the FPO fans listed above only.							PDF

Note: Performance data (current draw, power consumption, free airflow with a grille and filters, sound level) for all AC fans is based on 60Hz.