

FILTER FANS & EXHAUST FILTERS INSTALLATION GUIDE

Mounting Instructions

- Remove the correct cutouts from the top and bottom of the enclosure (refer to Figures 1 & 3).
- Cutout dimensions are listed in Table 2.
- For proper orientation, make sure the SCE logo is at the bottom of the grille.
- Push the exhaust filter or filter fan into the cutout.
- The fixing clips will automatically clamp the unit into place.
- Ensure the unit is securely clamped.

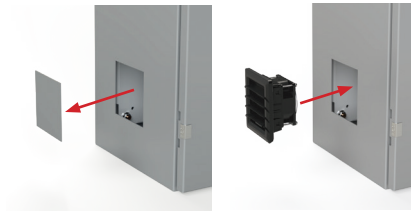


Figure 1

We recommend wearing suitable protective clothing:

- Gloves EN 420 and EN 388
- Safety glasses ENC 166-170

Replacement and Cleaning of the Filter Media

Important Safety Notice:

- Disconnect the device from power before installation or filter replacement.
- Do not insert objects or fingers into the fan rotor.

Filter Replacement Instructions:

- Open the grille by pulling the cover from the top. The grille is hinged at the bottom for easy access.
- Remove the used filter.
- Install the new filter.
- Close the grille cover until it snaps shut at the top.
- Refer to Figure 2 for illustrated details.

Maintenance Note:

- The filter replacement interval depends on dust accumulation, operating hours, and specific ambient conditions.
- Note: A dirty filter reduces system efficiency and may lead to poor or blocked ventilation.

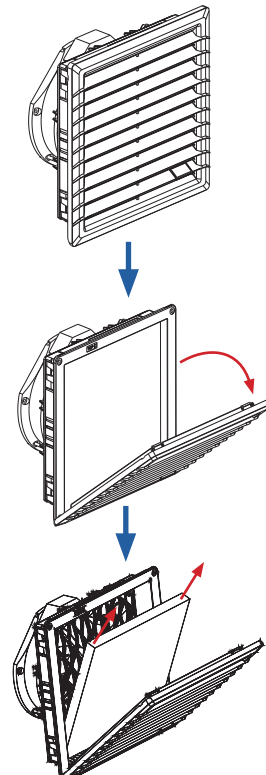


Figure 2

Electrical Connection and Flow Diagram

Standard Flow Diagram:

- Ambient air enters the enclosure through the bottom-mounted filter fan. As the fan operates, warm air is forced upward and exits through the top exhaust filter, creating heat dissipation.

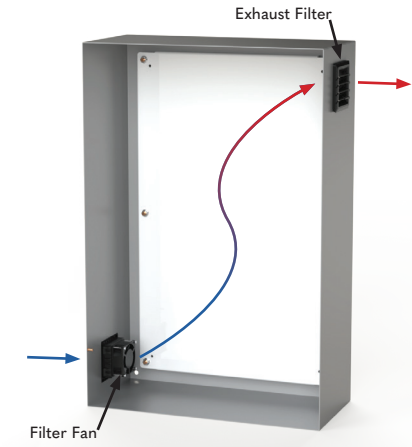
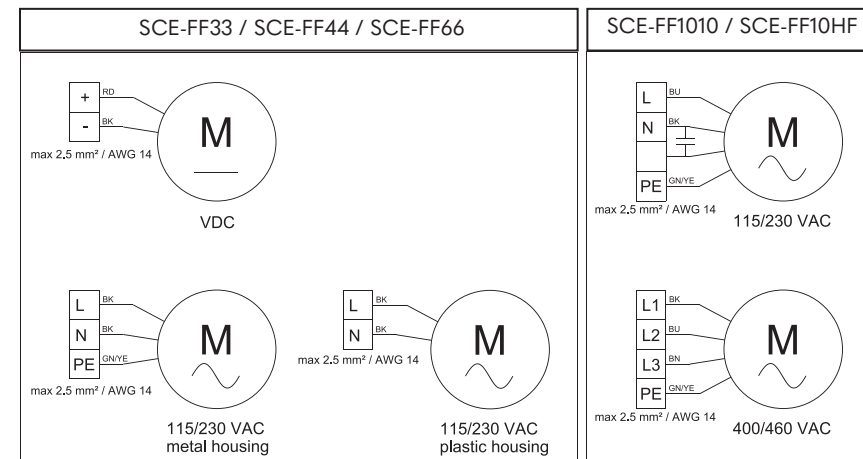


Figure 3

Electrical Connection to the Fan Filters:

- The feed voltage and frequency must be according to the rated values stated on the name plates.
- The electrical connection must be carried out according to the local norms and safety regulations which govern the use of electrical material.
- Electrical connection and repairs must be carried out by qualified personnel only.



* The electrical connection schematic applies to all voltage variants listed under the corresponding fan filter part numbers.

Figure 4

FAN & FILTER TECHNICAL INFORMATION

Table 1: Technical Specifications

Exhaust Filter	Ref. #	Max Material Thickness	UL Type	Fan and Filter Assembly	Voltage	Airflow CFM (m3/hr)	Noise dB(A)	Power (W) 50/60 hz	Current (A) 50/60 hz	Fuse A (T)	Protection Hood Hose-proof
SCE-FEG33/LG	1	0.125" (3.2mm)	12, 3R	SCE-FF33/LG	115V 50/60hz	12.6 / 13.3 (21 / 23)	32	3.6 / 3.9	0.22 / 0.21	1 A(T)	SCE-RH3N4XSS
				SCE-FF33-230/LG	230V 50/60hz	12.6 / 13.3 (21 / 23)	32	3.6 / 3.9	0.24 / 0.25	1 A(T)	
				SCE-FF33-24VDC SCE-FF33-24VLG	24V DC	26.6 (50)	56	14.4	0.6	1 A(T)	
SCE-FEG44/LG	2	0.125" (3.2mm)	12, 3R	SCE-FF44/LG	115V 50/60hz	25.8 / 27.7 (44 / 47)	45	21 / 18	0.26 / 0.26	1 A(T)	SCE-RH4N4XSS
				SCE-FF44-230/LG	230V 50/60hz	25.8 / 27.7 (44 / 47)	46	20 / 17	0.17 / 0.17	1 A(T)	
				SCE-FF44-24VDC SCE-FF44-24VLG	24V DC	34.6 (59)	44.5	5	0.21	1 A(T)	
SCE-FEG66/LG	3	0.125" (3.2mm)	12, 3R	SCE-FF66/LG	115V 50/60hz	139 / 156 (236 / 265)	52	41 / 38	0.56 / 0.47	1 A(T)	SCE-RH6N4XSS
				SCE-FF66-230/LG	230V 50/60hz	139 / 156 (236 / 265)	53	45 / 39	0.31 / 0.25	1 A(T)	
				SCE-FF66-24VDC SCE-FF66-24VLG	24V DC	107.7 (183)	50	12	0.5	1 A(T)	
SCE-FEG1010/LG	4	0.125" (3.2mm)	12, 3R	SCE-FF1010/LG	115V 50/60hz	409.4 / 421.8 (696 / 717)	61	72 / 100	0.65 / 0.88	1 A(T)	SCE-RH10N4XSS
				SCE-FF1010-230/LG	230V 50/60hz	409.4 / 421.8 (696 / 717)	61	80 / 110	0.35 / 0.50	1 A(T)	
				SCE-FF10HF/LG	115V 50/60hz	476.5 / 500.6 (810 / 851)	71	135 / 190	1.18 / 1.67	1.5 A(T)	
				SCE-FF10HF-230/LG	230V 50/60hz	476.5 / 500.6 (810 / 851)	71	136 / 185	0.61 / 0.82	1.5 A(T)	
				SCE-FF10HF-460/LG	460V 50/60hz 3~	331 / 379 (562 / 644)	70	125 / 165	0.21 / 0.25	3 x 1 A(T)	

* For a light gray grille, add 'LG' to the end of the part number.

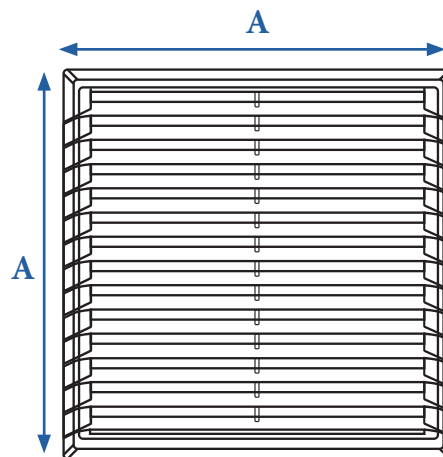


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CUTOUT INSTRUCTIONS

**Table 2: Cutout Dimensions
(Standard Clip Installation)**

Ref. #	External Dimension (A)	Cut-out Dimension (B)
1	4.53" / 115 mm	3.66" / 92.9 mm
2	5.8" / 147 mm	4.91" / 124.7 mm
3	10.04" / 255 mm	8.84" / 224.5 mm
4	12.72" / 323 mm	11.53" / 292.9 mm



w/ Cover

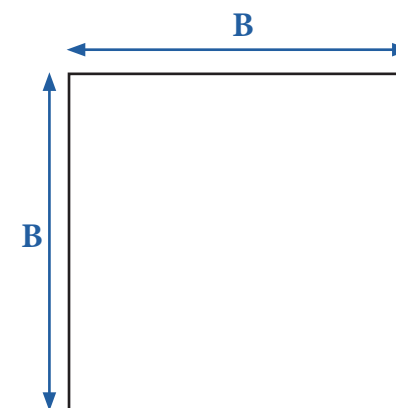


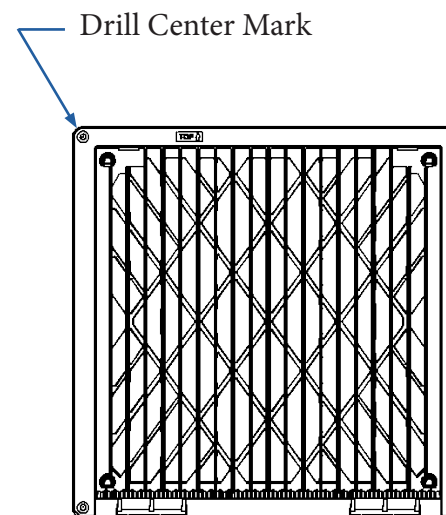
Figure 5

**Table 3: Cutout/Drill Dimensions
(Optional Installation w/ Mechanical Fasteners)**

Ref. #	External Dimension (Figure 5, A)	Cut-out Dimension (B)	Drill Locations (C)
1	4.53" / 115 mm	3.66" / 92.9 mm	3.96" / 100.6 mm
2	5.8" / 147 mm	4.91" / 124.7 mm	5.22" / 132.6 mm
3	10.04" / 255 mm	8.84" / 224.5 mm	9.21" / 233.9 mm
4	12.72" / 323 mm	11.53" / 292.9 mm	11.89" / 302.0 mm

No. 27 through-hole (0.144 in. dia.) for 6-32 x 1/2 in. fasteners; secure with nuts on interior of enclosure.

*(Hardware not included)



w/o Cover

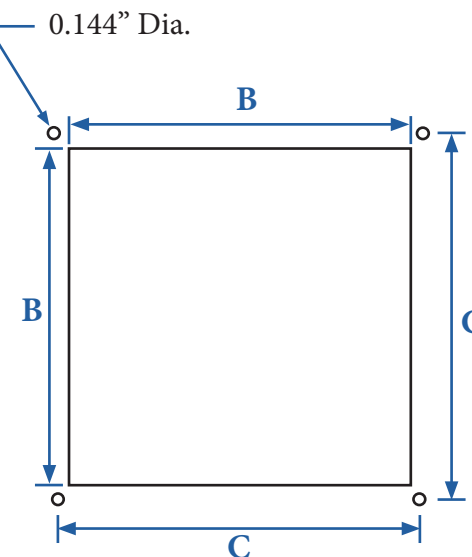


Figure 6



Type 1
Type 3R
Type 12



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