

This document must be retained for future reference.

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation. All connections should also be inspected periodically to ensure correct tightness.

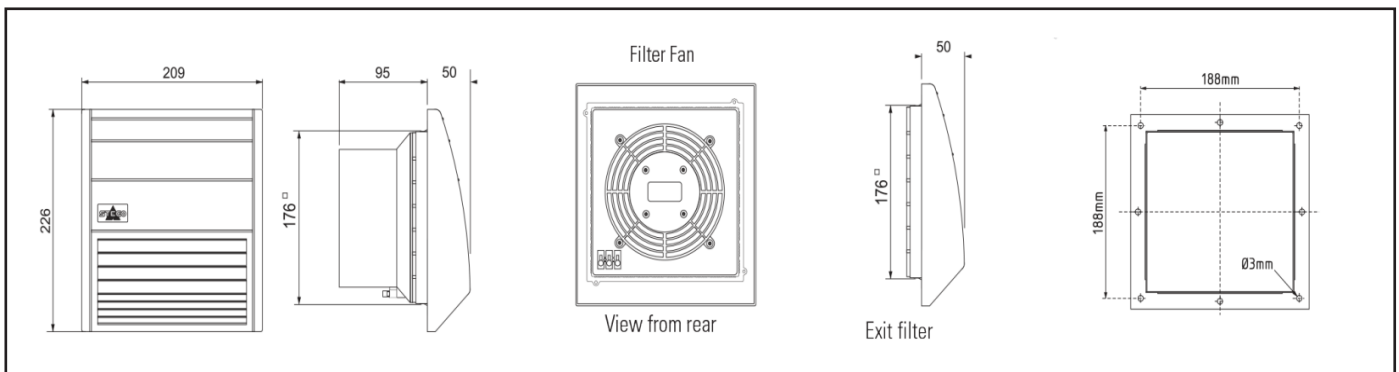
DO NOT USE POWER TOOLS ON THESE PRODUCTS



TM-FF01897 / TM-FF018125 / TM-FF018176

Fans and Filters

Dimensions



Installation and Maintenance

Filter fans are easily installed by one person from outside the cabinet.

- 1.) Make cut-out in the cabinet wall. The cut edge of the cabinet opening should be free of dirt, filings and grease. A template for the enclosure cut-out is included in the delivery of the filter fan.
- 2.) Remove protective film from the sealing strips on the mounting frame. Press mounting frame into the cabinet opening. The frame stays permanently in the cabinet. (For size 176mm and up we recommend additional screw fixing.)
- 3.) Electrically connect the axial fan using the clip connectors. Push the unit into the mounting frame. Fix using screws.
- 4.) Insert the filter mat in the hood. Clip on. Finished. Changing the filter mat or fan is quickly done by one person. To change the filter mat simply remove the filter hood, insert the new mat and snap the hood back again. No tools required. Maintenance of the fan can easily be done without removing the mounting frame (2).

Technical Data

Axial fan, ball bearing	Service life 50,000h at 25°C / 77°F (65% RH)
ball bearing	Fan body aluminum, rotor plastic
Connection	2 wires with pressure clamps 2.5mm ² , length 100mm
Casing (filter fan and exit filter)	Plastic according to UL94 V-0, light grey
Hood (filter fan)	Plastic according to UL94 V-0, light grey;
Hood (exit filter)	Weather proof and UV light resistant according to UL746C (f1)
Mounting frame	With double-sided industrial adhesive band for fixing to the outside of enclosure; certain operating circumstances can make the additional use of screws necessary (see drilling template); a template for the enclosure cut-out is included in the delivery of the filter fans
Filter mat	G4 acc. to DIN EN 779, filtering degree 94%
Filter material	Synthetic fibre with progressive construction; temperature resistant to 100°C, self-extinguishing class F1, moisture resistant to 100% RH, reusable - cleaning by washing or vacuuming
Operating/Storage temperature	-10 to +70°C (+14 to +158°F) / -40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP55 / I (earthed)

Part Number	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	Enclosure cut-out	Weight (approx.)	Approvals
TM-FF01897	230VAC, 50Hz	21m ³ /h	16m ³ /h	80mA	13W	31db (A)	45mm	97 x 97mm + 0.4	0.6kg	VDE + UL File No. E234324
TM-FF018125	230VAC, 50Hz	55m ³ /h	42m ³ /h	100mA	15W	40db (A)	58mm	125 x 125mm + 0.4	1.0kg	VDE + UL File No. E234324
TM-FF018176	230VAC, 50Hz	102m ³ /h	68m ³ /h	100mA	15W	39db (A)	86mm	176 x 176mm + 0.4	1.3Kg	VDE + UL File No. E234324