

TYPE TFC

FOR CRITICAL AIR CLEANLINESS AND CRITICAL HYGIENE REQUIREMENTS, SUITABLE FOR CEILING INSTALLATION

Ceiling mounted particulate filters as final filter stage with Mini Pleat filter panels for the separation of suspended particles. Used in medicine, biology, pharmaceuticals, and sensitive technical areas.

- Easy, time-saving and secure filter change, can be completed by one person due to special press-in frame
- Robust, welded construction
- Compact construction, suitable for low ceilings, integration with all clean room ceiling systems of various manufacturers
- Various diffusers to ideally meet individual requirements
- Horizontal (circular, rectangular) or vertical (circular) connection
- Choice of air-tight shut-off damper or volume flow limiter for horizontal connection
- Equipment for differential pressure measurement, sealing integrity testing, and particle sampling for measurement
- For air cleanliness classes 5 to 8 according to ISO 14644-1
- Meets the hygiene requirements of VDI 6022

Application

Application

- Particulate filter air terminal device type TFC for ceiling installation as final filter stage and for air distribution
- Fitting of filter elements for the separation of suspended particles such as aerosols, toxic dusts, viruses and bacteria from the supply or extract air

Special characteristics

- Compact construction
- Easy operation
- High operational reliability

Description

Variants

- SC: Side entry circular spigot
- SC00H: Side entry circular spigot, manually adjustable shut-off damper
- SCTN0: Side entry circular spigot, shut-off damper with pneumatic actuator
- SCBR0: Side entry circular spigot, shut-off damper with electric actuator 24 – 240 V AC

- SCVFL: Side entry circular spigot, volume flow limiter
- TC: Top entry circular spigot
- SR: Side entry rectangular spigot
- SRKSR: Side entry rectangular spigot, manually adjustable shut-off damper

Construction

- SPC: Steel, powder-coated RAL 9010, pure white
- STA: Stainless steel (only for SC, TC, SR)

Parts and characteristics

- Pneumatic actuator: control pressure 0.6 – 1.0 bar
- Electric actuator: mains connection 24 – 240 V, 50 Hz
- Volume flow limiter: factory set reference volume flow rate, can be readjusted within a volume flow rate range of > 5 : 1

Attachments

- ADLQ: Ceiling diffuser
- DLQ: Ceiling diffuser
- FD: Ceiling swirl diffuser
- TDF: Ceiling swirl diffuser
- FDF: Ceiling swirl diffuser
- VDW: Ceiling swirl diffuser
- DLQLF: Ceiling diffuser
- DLQL: Ceiling swirl diffuser with baffle element made of acoustic fleece
- PCD: PROCONDIF® diffuser
- AIRNAMIC: Ceiling swirl diffuser

Options

- D: Spigot diameter
- M: Damper blade for volume flow rate balancing
- 2: Installation subframe with 2 fixing points
- 4: Installation subframe with 4 fixing points
- T: Top suspension and measurement points
- S: Side suspension and measurement points

Useful additions

- Mini Pleat filter panels (MFP)
- Suitable filter elements to be ordered separately

Construction features

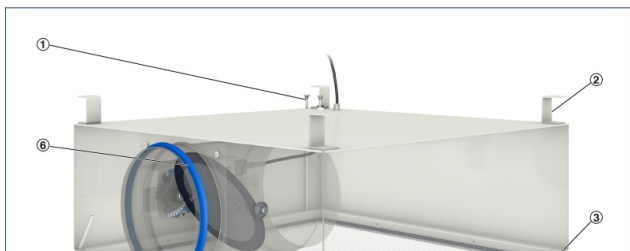
- Clamping mechanism with 2 fixing points for filter elements; 4 fixing points as an option
- Sealing integrity test facility for checking the filter function
- Pressure measurement points to monitor the differential operating pressure

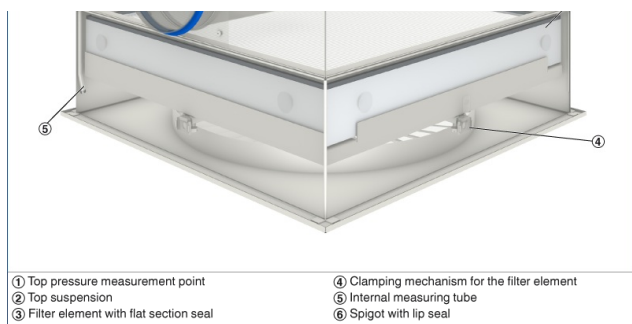
Materials and surfaces

- Casing made of either sheet steel, powder-coated RAL 9010, pure white, or of stainless steel for variants SC, TC and SR
- Diffusers made of sheet steel, powder-coated RAL 9010, pure white (types DLQ, FD, TDF, VDW, DLQLF, DLQL), of anodised aluminium sections (type ADLQ), or of stainless steel (type FDF)
- Diffuser made of sheet steel, powder-coated RAL 9010 (pure white, matt); type PCD with internal part made of PP plastic, RAL 9010 (pure white)
- Diffuser made of high-quality ABS plastic, RAL 9010 (pure white), type AIRNAMIC

INFORMATION TECHNIQUE

Schematic illustration of TFC-SCBR0





Particulate filter air terminal device type TFC for ceiling installation as final filter stage and for air distribution. Fitting of filter elements for the separation of suspended particles such as aerosols, toxic dusts, viruses and bacteria from the supply or extract air.

Casing with side entry or top entry spigot. As standard, ceiling mounted particulate filters with circular spigots are fitted with a lip seal. With optional air-tight manually adjustable shut-off damper, pneumatic or electric actuator, or volume flow limiter.

The filter elements are pressed into place by an installation subframe with two or four (optional) fixing points. As standard, the casings are equipped with a sealing integrity test facility, internal measuring tube, and pressure measurement point for monitoring the operating differential pressure. Suspension and pressure measurement points either at the side or at the top. For fitting Mini Pleat filter panels with a flat section seal or a fluid seal. Leakage test for each casing.

Special characteristics

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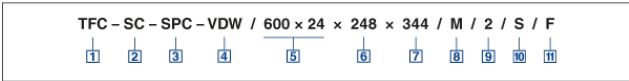
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TFC



<p>1 Type TFC Ceiling mounted particulate filter</p> <p>2 Variant SC Side entry circular spigot SC00H Side entry circular spigot, manually adjustable shut-off damper SCTN0 Side entry circular spigot, shut-off damper with pneumatic actuator SCBR0 Side entry circular spigot, shut-off damper with electric actuator 24 – 240 V AC SCVFL Side entry circular spigot, volume flow limiter</p> <p>3 Casings material SPC Steel, powder-coated RAL 9010, pure white STA Stainless steel</p> <p>4 Air terminal device No entry: none</p> <p>ADLQ DLQ FD TDF FDF DLQLF DLQL VDW PCD AIRNAMIC</p> <p>5 Nominal size [mm] ADLQ, DLQ, FD, TDF, FDF, DLQLF, DLQL</p> <p>400 500 600 625 680</p>	<p>VDW 400 x 16 500 x 24 600 x 24 625 x 24 625 x 48 680 x 24 680 x 54</p> <p>PCD 600 625</p> <p>AIRNAMIC 600 625</p> <p>6 Spigot diameter [mm] D</p> <p>7 Casing height [mm] G1</p> <p>8 Damper blade No entry: none M Damper blade for volume flow rate balancing (only for TFC-SC and TFC-TC)</p> <p>9 Fixing points 2 Installation subframe with 2 fixing points 4 Installation subframe with 4 fixing points (not for SC00H)</p> <p>10 Suspension/measurement points T Top S Side</p> <p>11 Flange width [mm] No entry: standard F 10 – 55 mm</p>
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