



TFEA



Side entry, circular spigot



Top entry, circular spigot



Tested to VDI 6022



Side entry, rectangular spigot

## TFEA

### FILTER EXTRACT AIR CASING FOR HIGH HYGIENIC REQUIREMENTS FOR INSTALLATION IN CEILINGS

Ceiling diffuser for extract air applications

- Use in medicine, biology, pharmacy and sensitive areas of technology
- Various diffusers to ideally meet individual requirements
- Compact design, suitable for connection to commercially available cleanroom ceiling systems
- Integrated filter holder, connection option horizontal (round, square) or vertical (round)
- For cleanroom classes 5 - 8 according to EN ISO 14644-1
- Meets the hygiene requirements of VDI 6022
- Leakage class: EN 1886 L1, EN 15727 class D

## General information



## Application

- Ceiling diffuser for extract air applications
- Inclusion of filter elements for the separation of suspended matter such as aerosols, toxic dusts, viruses, bacteria from the extract air

#### **Special features**

- Compact construction
- Easy to use
- High operational reliability

#### **Classification**

Hygiene tested to VDI 6022

#### **Nominal sizes**

- 400, 500, 600, 625, 680 [mm]

#### **Variants**

- SC: Side entry, circular spigot
- TC: Top entry, circular spigot
- SR: Side entry, rectangular spigot

#### **Construction**

SPC: Steel, powder-coated, RAL 9010 (pure white)

#### **Air terminal devices**

- ADLQ: Ceiling diffuser
- DLQ: Ceiling diffuser
- LF: Ceiling diffuser
- FD: Ceiling swirl diffuser
- TDF: Ceiling swirl diffuser
- VDWF: Ceiling swirl diffuser

#### **Copy of Useful additions**

- Mini pleat filter plates MFP and MFPCR
- Suitable filter elements to be ordered separately

#### **Standards and guidelines**

Hygiene conformity: VDI 6022, VDI 3803, DIN 1946 Part 4,ÖNORM H 6021 and ÖNORM H 6020, SWKI VA 104-01 andSWKI 99-3 and EN 16798 Leakage class: EN 1886 L1, EN 15727 class D

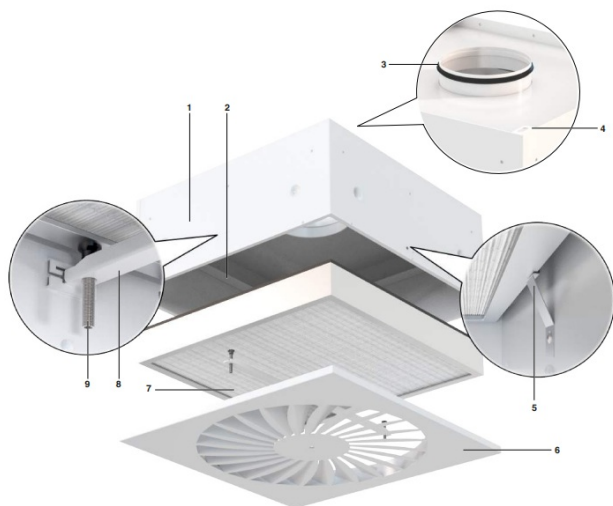
#### **Commissioning**

- Installation of filter elements with flat profile gasket and endless foamed half-round gasket
- The filter element is pressed on by means of 2 easy-tooperate clamping screws

#### **Maintenance**

- Diffusers with central fixing can be easily removed for filter changes and cleaning.

## **TECHNICAL INFORMATION**



- 1 Casing
- 2 Filter mount
- 3 Spigot with lip seal
- 4 Suspension
- 5 Holding spring
- 6 Air diffuser
- 7 Filter element
- 8 Holding traverse
- 9 Clamping screws

This specification text describes the general properties of the product. Texts for variants can be generated with our Easy Product Finder design programme

#### Specification text

Ceiling diffuser TFEA for extract air applications, e.g. in cleanrooms or sensitive areas of extract air filtration. Use as extract air housing without filter or with filter elements to separate particles such as aerosols, dusts, viruses and bacteria from the extract air. Casing with side entry or top entry spigot. Ceiling diffusers TFEA with circular spigots are fitted with lip seals as standard. The filter elements are pressed on by means of a crossbar with 2 fastening points. Enclosure suspension on the upper part of the enclosure. Installation in standard ceiling systems by adapting the dimensions of the housing flange. Can be combined with air diffusers of different designs. For holding Mini-Pleat filter plates with flat profile or continuous seal. Leakage class L1 according to DIN EN 1886; leakage class D according to DIN EN 15727; hygiene conformity according to VDI 6022.

#### Special features

- Compact construction
- Easy to use
- High operational reliability
- Easy cleaning

#### Materials and surfaces

- Housing made of sheet steel, powder-coated, RAL 9010 (pure white)
- Sheet steel diffusers, powder-coated, RAL 9010 (pure white), types DLQ(A), FD, TDF, VDWF, LF

#### Constructions

- SPC: Steel, powder-coated, RAL 9010 (pure white)

### 1 Type

**TFEA** Filter extract air casing

### 2 Variant

**SC** Side entry, circular spigot

**TC** Top entry, circular spigot

**SR** Side entry, rectangular spigot

### 3 Material

**SPC** Steel, powder-coated, RAL 9010 (pure white)

### 4 Type of ceiling

No entry: standard

**CC** Clip-in tile ceiling

### 5 Position of air diffuser

**ED** external

**ID** Internal

### 6 Air diffuser

No entry: none

External diffuser (ED)

**DLQ, ADLQ**

External or internal diffuser (ED, ID)

**LF, VDWF, TDF, FD**

### 7 Nominal size [mm]

Without diffuser, DLQ, ADLQ, LF, TDF, FD

**400** (not with SR)

**500, 600, 625, 680**

VDWF × 16

**400 × 16**

VDWF × 24

**500 × 24, 600 × 24, 625 × 24, 680 × 24**

VDWF × 48

**625 × 48**

VDWF × 54

**680 × 54**

### 8 Spigot size [mm]

For SC, TC: Diameter

For SR: width × height

### 9 Flange width [mm]

No entry: Standard

**10 - 55**

**Order example: TFEA- SC-SPC-CC-ID-VDWF/400×16-158-15**

Order example: TFEA-SR-SPC-ED-VDWF/625×24-460×100-10

TFEA – SC – SPC – CC – ID – VDWF / 400 × 16 – 158 – 15

1 2 3 4 5 6 7 8 9