

# ASD dust filter unit DFU 911 and DFU 911S

A dust filter unit DFU 911 can be installed in the sampling pipe tube network for using an aspirating smoke detector (ASD) in applications subject to dust or dirt. This significantly extends the service life of the smoke sensors, air flow sensors and fans used in the ASD and results in enhanced resistance to false alarms. A filter monitoring function in the ASD can be activated to indicate the optimal time to replace the filter element after a defined, application-specific filter service life has elapsed.

## Quick and simple installation

The dust filter unit is mounted directly on the wall. The distance from the wall to the connecting pipes of the filter is defined using the ASD and the wall mounting clips.

## Long service life

Proven technology in a compact design – the new dust filter unit DFU 911 incorporates the proven filter technology of the DFU 535 filter family, but with a simplified design. The incredibly effective lamella filter technology guarantees good air distribution across the entire surface of the filter in the DFU 911 dust filter unit.

## A perfect match for all Securiton ASD types

The size of the new DFU 911 dust filter unit means it is optimally designed for use with the Securiton ASDs. Two filter units fit perfectly with the contact spacing of a two-channel ASD 535. With the simple housing colour in the style of Securiton devices, its affiliation with the device family is immediately apparent.

## Tool-free maintenance in three simple steps

Tools are not required for maintenance of the DFU 911 dust filter unit. The simple design allows for maintenance to be carried out rapidly.

## DFU 911S

The new DFU 911S dust filter unit is equipped with a special protective flap. Additional monitoring is made as to whether a filter cartridge is inserted or not. If the filter cartridge is missing, an air flow fault is triggered on the ASD. This is a fast and effective way of determining whether the filter cartridge was deliberately removed or accidentally not inserted. While the filter cartridge is being replaced, the flap also prevents dirt from entering the sampling pipe.



Standard DFU 911 dust filter unit



DFU 911S dust filter unit with integrated protective flap



## Instructions for replacing the filter cartridge

Nothing could be quicker and easier!

- 1 Open the two metal clips



- 2 Remove the housing cover



- 3 Replace the RFC 911 filter element



The filter can be put back into operation after attaching the housing cover and closing the metal clips.

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## Functions

The DFU 911 dust filter unit uses a filter material that has been specially developed for use in aspirating smoke detectors. One of the features of this filter material is that it filters out dust particles while allowing smoke particles to pass through unfiltered. Typically, in terms of particle size the dividing line where dust and smoke particles meet is around 1 µm. The graphic shows the filter characteristics of the DFU 911 dust filter unit.

## Typical areas of application

DFU 911: Warehouses, hollow ceilings, hollow floors, public buildings, cable tunnels, power supply tunnels, switch cabinets, transformers, wind turbines etc.

## DFU 911S:

Installations where monitoring the presence of a filter cartridge is required, such as agricultural applications, production companies, recycling plants, timber processing plants etc.

## Technical data



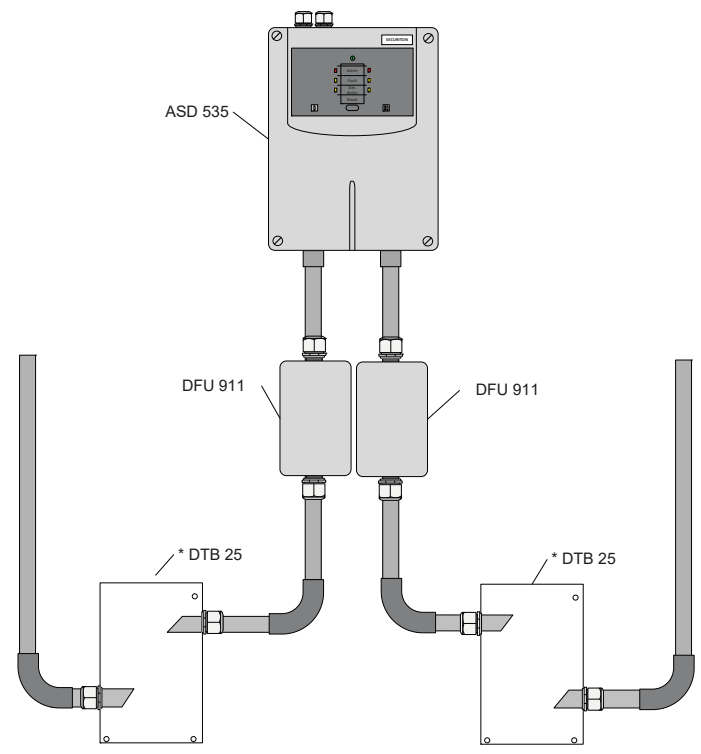
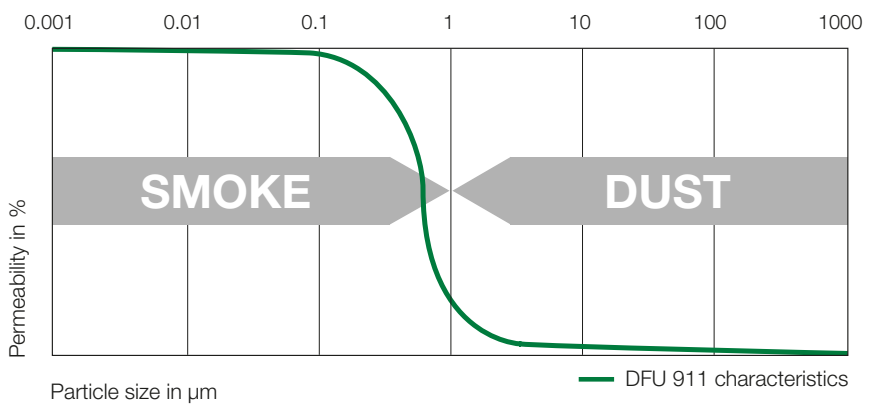
**DFU 911**  
Dust filter unit  
Article no. 11-2300030-01-xx

**DFU 911S**  
Monitored dust filter unit (with protective flap)  
Article no. 11-2300103-01-xx



**RFC 911**  
RFC 911 replacement filter element  
Article no. 11-2300031-01-xx

**RFC 911VE20**  
RFC 911 replacement filter element (20 pcs.)  
Article no. 11-2300031-02-xx



\*The DTB 25 dust trap box is intended for use in heavily contaminated areas.