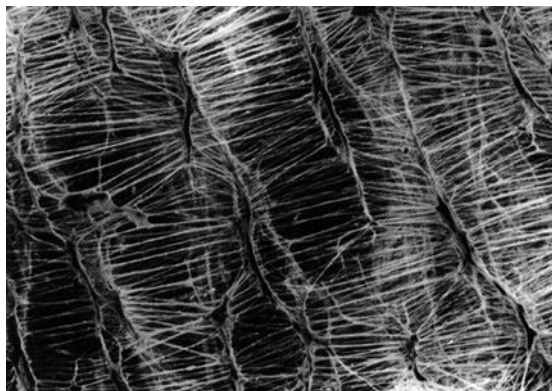


Cleaning recommendation for dust filter elements

Filter media with PTFE membrane

Ti 07/1, Ti 18/1, Ti 56/2, Ti 202 and Ti 2011



Dust filter elements with the filter media Ti 07/1, Ti 18/1, Ti 56/2, Ti 202 or Ti 2011 can be cleaned dry or wet when installed or removed.

Cleaning always depends on the individual application, therefore no guarantee can be given for a possible failure even if this cleaning recommendation is followed.

As a rule, the usual compressed air cleaning of the filter elements is sufficient when installed in the filter housing. Depending on the requirements and filter element, the compressed air cleaning is carried out with the multi-jet nozzle (MJD) or the rotating wing (RLD/RLK) during operation. The filter elements can also be cleaned with MJD or RLD/RLK in the installed state with the fan switched off.

If additional cleaning is necessary, it can be carried out dry or wet.

Careful handling is required to avoid damage to the filter element and the filter membrane (PTFE membrane). Also, during removal and installation, care must be taken to ensure that the elements are handled correctly (installation/removal instructions).

The following cleaning methods are not permitted:

- **Brushing the elements**
- **Contact with hard objects**
- **Blowing off with compressed air**
- **Cleaning with high pressure cleaner**

Dry cleaning

The dust filter elements can be cleaned dry on the membrane side (upstream side) when installed or removed, without the addition of liquids.

Before manual cleaning, the filter elements must be cleaned from the inside to the outside by means of compressed air cleaning in the installed state with the fan switched off. The coarsest impurities are removed.

Once the elements have been removed, the openings to the clean gas side must be sealed with a suitable seal. Contamination on the clean side (inside of the filter element) must be avoided.

The filter elements can be carefully cleaned with a soft brush from the outside (on the membrane side) and freed from coarse impurities. Make sure that the element bonding, the filter material (PTFE membrane) and the banderoles (banderole bonding) are not damaged.

Cleaning with a vacuum cleaner may only be carried out carefully without touching or damaging the surface of the element. The elements must not be brushed off.

The filter elements must not be blown off from the outside with compressed air, neither in the installed nor in the removed condition. The filter medium or filter element could be damaged and impurities could get onto the clean side. The filter elements must not be knocked against other objects.

Wet cleaning

The dust filter elements can be cleaned with fresh water at low to medium discharge velocity (splash water) on the membrane side (inflow side).

Before wet cleaning, the filter elements must be cleaned from the inside to the outside by means of compressed air cleaning in the installed state with the fan switched off. The coarsest impurities are removed.

In order to avoid contamination on the clean side, with the removed element, by washing water, dirt etc., openings to the clean side must be sealed with a suitable closure.

Water-soluble residues can be dissolved in an immersion bath or a washing system at a maximum water temperature of 70 °C and a specified washing time. The filter elements must be removed for this purpose.

Commercially available detergents can support the cleaning effect. Care should be taken with detergents, alkaline detergents are not suitable for polyester media.

Wet cleaning with disinfection

After pre-cleaning with warm splash water, the filter elements must be cleaned in an immersion bath at room temperature using the disinfectants listed below.

Disinfectant for washing the filter elements (at room temperature)

Disinfectant	Concentration
Sagrotan	ready solution
Antifect FF	2 % solution
Indicin plus	2 % solution
Makrobac forte	2 % solution
Eltra detergent	7 g/l
Hydrogen peroxide	1 % solution

Drying (after wet cleaning)

The cleaned elements must be dried before use!

Possible drying methods:

- Drying in convection oven approx. 18 hours at 90 – 100 °C
- Air drying in a ventilated room for approx. 10 days at room temperature (approx. 20 °C).

Filter elements may be air-dried when installed with the door open. However, the fan must be switched off.

Inspection before reassembly

- **All elements must be checked for damage.**
- **Check gaskets for tight fit, damage and tightness.**
- **Check banderoles. Are these damaged or are no longer connected with the filter medium?**
The elements must then be completely replaced.
- **Check the conductivity of the elements with the filter media Ti 07/1 and Ti 2011.**
- **Faulty elements must be replaced.**
- **When reinstalling the filter elements, the clean side (inner side of the filter element) must be free of any impurities and liquids.**

After reassembly and before commissioning, cleaning can be carried out again using compressed air with the fan switched off.

Please note

This cleaning recommendation corresponds to our current state of knowledge! Warranty claims, which may be derived from this, are generally excluded!

Filter elements are consumables and must be replaced according to their degree of use.

Many different parameters during filtration and cleaning do not allow an exact prediction of the cleaning system and the resulting service life.

Improper cleaning has a negative effect on the service life of the elements.

Filter elements should be checked regularly for mechanical damage. Damaged elements have to be replaced. This also applies to elements where the membrane is damaged.

If the filter unit is used for different dusts, the use of two sets of filter elements is recommended to avoid cross-contamination.

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