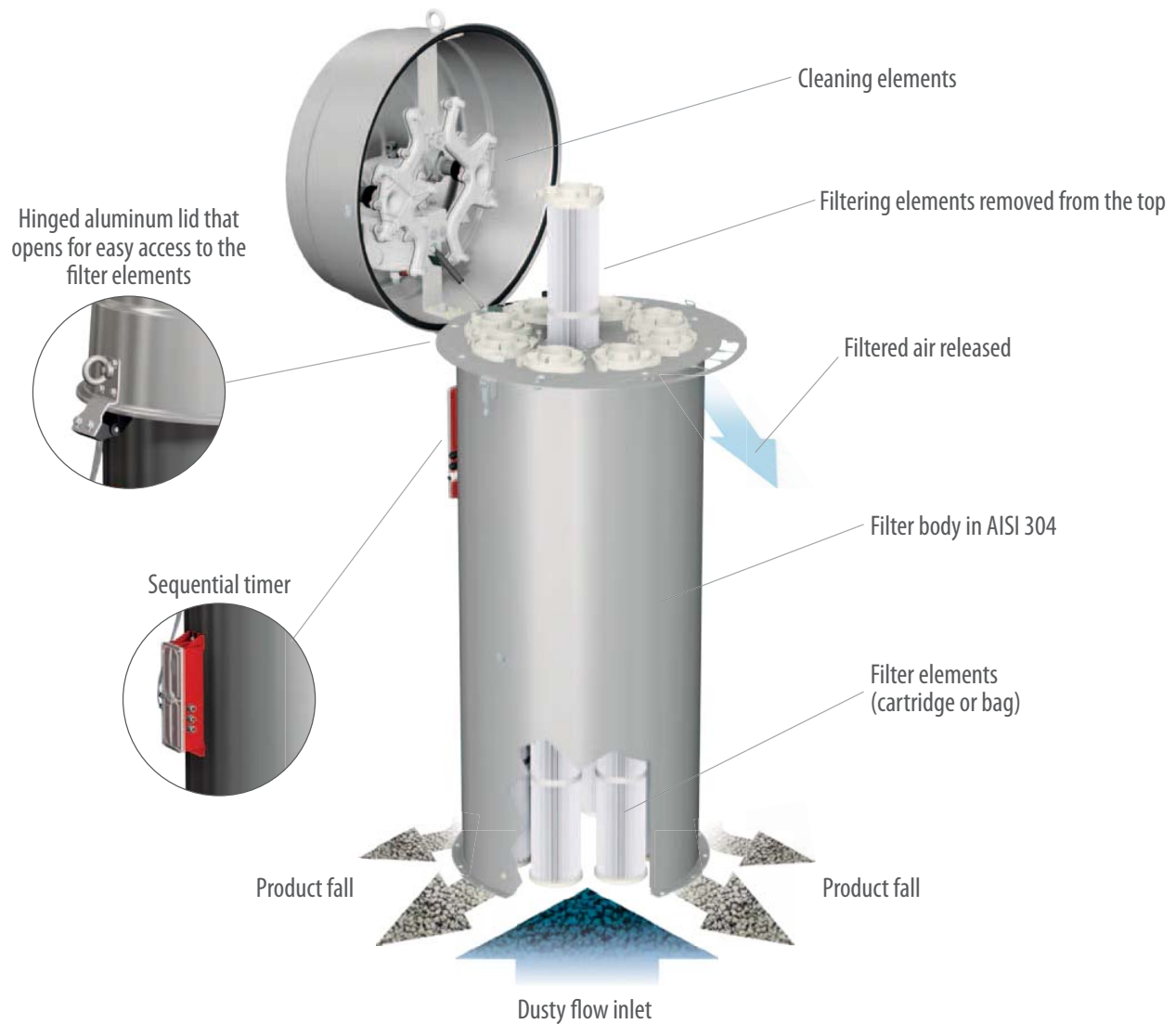


Purpose

Dust collectors separate the dust from the air in a flow of dusty air. The dust is retained on the outside of the filtering elements, while the air passes inside and is dedusted. The dust held inside the filter falls into the container below, while the clean air is released. The separation of dust from the air is never absolute: the dust collector reduce its concentration bringing it back to levels compliant with current standards.



COMMON APPLICATIONS



Fabric filter element

PREMIUM POLYESTER



"THERMAL BONDED TNT MATERIAL

- Emission <1 mg / Nm³
NB: Obtainable after application analysis
(minimum product particle size / filtration rate / can velocity)
- Antistatic treatment available
- Lifetime: up to 20,000 operating hours
- Cleanable by water wash
- Classification: **M** according to BGIA test
- Weight: 260 g / m²
- Air permeability: 280 m³ / m² h (200Pa)
- Low pressure drops: <700 Pa (70 mm H₂O)
- Low melting point heat-bonded synthetic fibers (Fig. 1)
- Homogeneous surface (Fig. 2) which increases the mechanical resistance

NB: The commercial cartridges available on the market are produced with stitch-welded fabrics (Fig.3-4) which reduce the real filtering surface by up to 35% (Fig.5) *

POLYESTER SKYFILTER®



THERMAL BONDED TNT MATERIAL

- Emission <20 mg / Nm³
NB: Obtainable after application analysis
(minimum product particle size / filtration rate / can velocity)
- Lifetime: up to 30,000 operating hours
- Cleanable by water wash
- Classification: **L** according to BGIA test
- Weight: 250 g / m²
- Air permeability: 3400 m³ / m² h (200Pa)
- Low pressure drops: <700 Pa (70 mm H₂O)
- Less cleaning cycles required
- Low melting point heat-bonded synthetic fibers (Fig. 1)
- Homogeneous surface (Fig. 2) which increases the mechanical resistance

NB: The commercial cartridges available on the market are produced with stitch-welded fabrics (Fig.3-4) which reduce the real filtering surface by up to 35% (Fig.5)

NEEDED FELT



POLYESTER NEEDLE FELT MATERIAL

- Emission <5 mg / Nm³
NB: Obtainable only with specific types of tissues and after application analysis
(minimum product particle size / filtration rate / rate of ascent)
- Different surface treatments available
(antistatic / teflon coating / heat-sealed membrane)
- Cleanable by water wash
- Classification: L or M according to BGIA test
- Weight: 450 g / m² or higher
- Antistaticity obtained with stainless steel fibers (Fig. 5)
- Can be installed on galvanized carbon steel cages or, on request, in stainless steel

TNT USED BY MIX PRODUCED BY FREUDENBERG

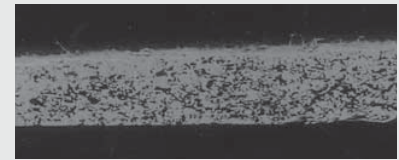
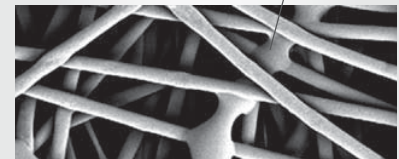


Fig.01 ————— Standard 1.000 µm



Fig.02 (smooth surface)



Zoom heat sealing

FABRICS NOT MIX

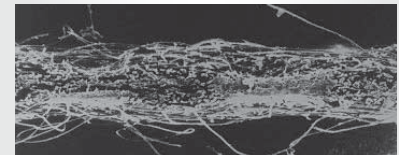
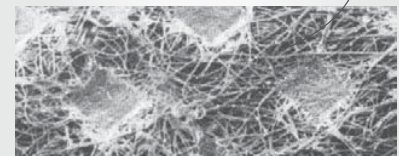


Fig.03 ————— Standard 1.000 µm



Fig.04 (spot welded surface)



Zoom spot welding

ANTISTATIC FABRIC

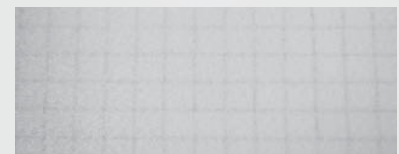


Fig.05