

Automatic backwash filter

Microflotation

Cake filtration

Precoat filtration

Filter housings

Filter elements

Filterbags



Lenzing Technik

Filtration and Separation



About us

Lenzing Technik: Filtration and Separation

30 years experience in liquid filtration, continuous improvement, high vertical integration due to diverse manufacturing groups in house and stringent quality standards made us an international market leader in many industrial sectors.

Our applications:

Besides a large number of applications for solid-liquid filtration in various industrial sectors we are offering systems specially designed and optimized for specific processes:

- **Pulp and paper industry:**
Cost efficient filtration of large mass flows with low particle concentration. Preparation of process water and treatment of waste water.
- **Man made fiber and film:**
Long-time market leadership in filtration of high viscose spinning and film casting solutions with automatic backwash filters.
- **Electronics and photovoltaic:**
Automatic and manual filter systems for microfiltration of cooling water for wafer manufacturing.
- **Steel industry:**
Economical automatic systems for filtration of cooling water circuits with high amount of cinder.
- **Galvanic/Surface treatment:**
Automatic filter systems for efficient maintenance of galvanic baths as well as cleaning and degreasing baths.
- **Water preparation:**
Economic systems for automatic microfiltration of river water, seawater and waste water.
- **Electric power plants:**
Micro-filtering backwash filters replace large and costly sand filters in preparation of boiler feed water and cooling tower makeup water.
- **Chemicals/paints and varnishes:**
Filtration of chemicals, paints and varnishes prior to filling.

Our systems are filtering following fluids:

- **Spinning solutions**
(Viscose, acrylic, polyimide, cellulose acetate, spandex, aramide, PVA)
- **High viscose fluids:**
(Resins, varnishes, foodstuff, glues, petrochemical products)
- **Chemicals:**
(Acids, lyes, solvents)
- **Water:**
(Industrial process water, river water, seawater, drinking water, DI-water, circulation water, waste water)
- **Drinks and foodstuff:**
(Juices, wine, beer)
- **Oils**
(Mineral oil, synthetic oil, hydraulic oil, lube oil, gear oil)

Our competences:

Own engineering and design department

In-house manufacturing department with up to date machining centers

In-house automation department

Piping and apparatus manufacturing in all materials of construction

Orientation trial and analyses in our own laboratory

Piloting and customer specific analyses

Turn key systems



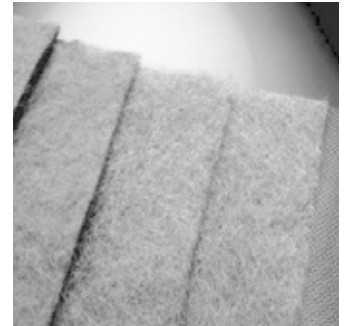
Product overview

Filtration from the market leader

Automatic backwash filter

For high and medium viscose media (AKF, KKF, RKF)

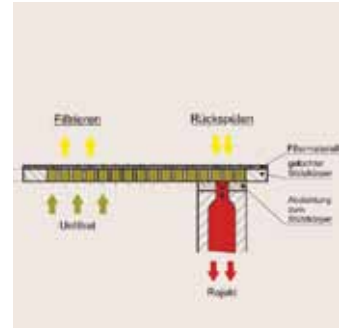
- Highest viscosity (up to 200.000 cP)
- Filter fineness up to 3 µm absolute with stainless steelfleece
- High filtration efficiency at high flow rates
- Filter material service life up to two years and 80.000 backwashes
- Practically no operation expenses



Automatic backwash filter

For fine and micro filtration (RWF)

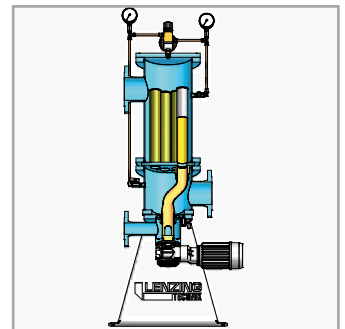
- Filter fineness up to 3 µm absolute with stainless steel fleece
- Filter fineness of 1 µm in special applications
- Throughput up to 700 m³/h
- High solid content at lowest reject quantity (patented)
- Low investment costs
- Practically unlimited filter material service life
- Practically no operation expenses



Automatic backwash filter

For cooling and processing water (KRF)

- Filter fineness up to 50 µm
- High throughput up to 10.000 m³/h
- For low solid content and high quantity of water
- Low investment costs
- Practically no operation expenses



Automatic backwash filter

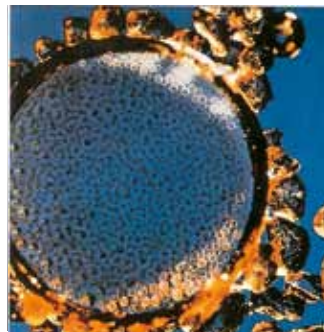
For microfiltration (RFF)

- Filter fineness up to 1 µm absolute (0,2 µm nominal)
- Throughput up to 60 m³/h in one skid / unlimited due to modular design
- Efficient backwash due to opening of pores (patented system)
- Practically no operation expenses



Microflotation

- Very homogeneous distribution of micro bubbles (90% between 20 and 50 μm)
- Most times no chemicals needed
- Lowest energy costs due to lower saturation pressure
- Pre-treatment before biological wastewater plants
- Effective dirt discharge in circulation systems



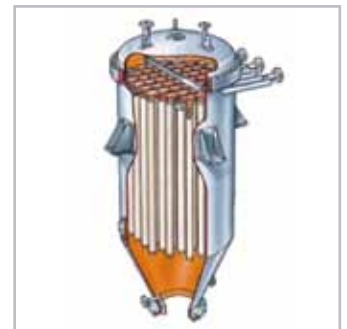
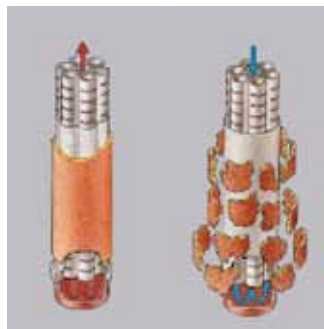
Cake filtration (PKF)

- Filter fineness up to 1 μm
- Throughput up to 300 m^3/h in one apparatus
- Solid content up to 10% possible
- For suspensions difficultly filterable
- Filtration with integrated cake washing and / or drying
- Fully automatic with efficient, patented cake discharge



Precoat filtration (PKF)

- Separation down to submicron-range
- Throughput up to 300 m^3/h in one apparatus
- Suitable for slimy solids with a tendency to blocking
- Dry cake or slurry discharge
- Closed system (no vapors)
- Fully automatic with efficient, patented cake discharge



Filter cartridges / filter vessels

- Big stock of cartridges and vessels
- Overall application guidance
- Cost-efficient filtration
- FDA certified
- High chemical resistance possible





Filtration and Separation

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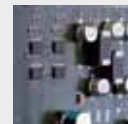


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