



FILTRATION IN PERFECTION

Innovative technology for the highest demands and highest quality.



Quality. Innovation. Service.

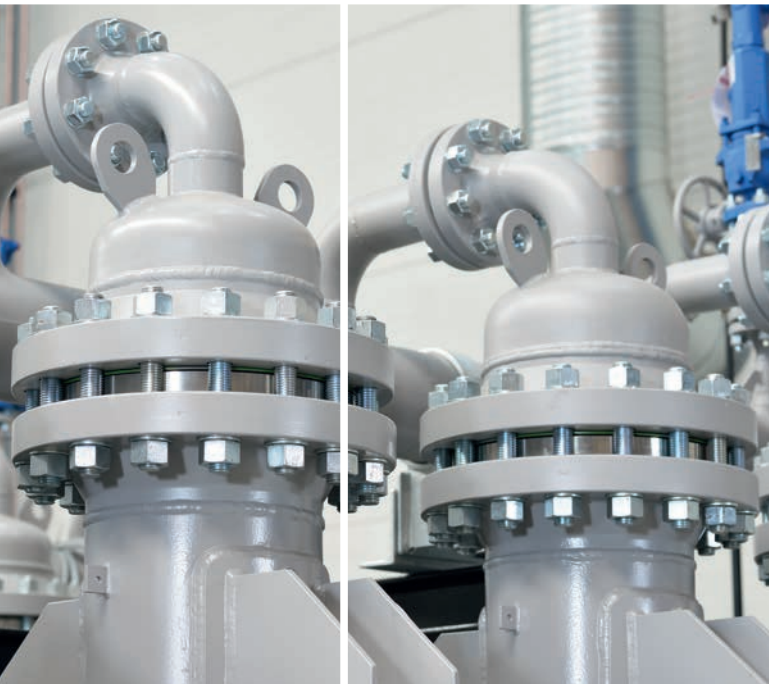
We are your contact for the world of filtration.

FAUDI does business globally in the filtration and separation technology sector and is your address of choice when it comes to trouble-free system operation. Our decades of experience in the planning and manufacture of filtration plants for the process industry ensure sustainable system availability for our customers.

We offer filtration solutions for a broad range of applications. Our products and services help you to comply with legal regulations, improve performance and at the same time reduce your operating costs. This is because at FAUDI, when we talk about quality, we go far beyond the

categories of long service life and trouble-free operation: "Total cost of ownership" (TCO) is an important measure our engineers apply for their development work. From planning and manufacturing to turnkey installation and commissioning, FAUDI is your competent partner.

Moreover, we are also your contact for engineering and pipeline planning as well as monitoring and control. Get in touch with us. We will gladly advise you personally.



Part of a strong network

FAUDI and the Watz Group.

As part of the Watz Group, we are one of four businesses which together offer our customers full-service support, including consultancy, development, production, assembly and commissioning as well as maintenance, repairs and conversions. With their many years of experience, the companies Watz Hydraulik, Watz-Service GmbH, HydroService Zylinderbau and FAUDI GmbH which comprise the Group are strong business partners. The Bosch Group is of the same opinion and has awarded FAUDI the **Bosch Global Supplier Award**.

WATZ
UNTERNEHMENSGRUPPE

WATZ HYDRAULIK / **WATZ** SERVICE
FAUDI FILTRATIONSTECHNOLOGIE
HYDROSERVICE ZYLINDERBAU



Doing business globally

Innovative engineering made in Germany.

The solutions FAUDI provides are diverse. And so are the areas of application. This is why enterprises from a wide range of sectors rely on FAUDI in their daily business. We operate worldwide in the following branches of industry:



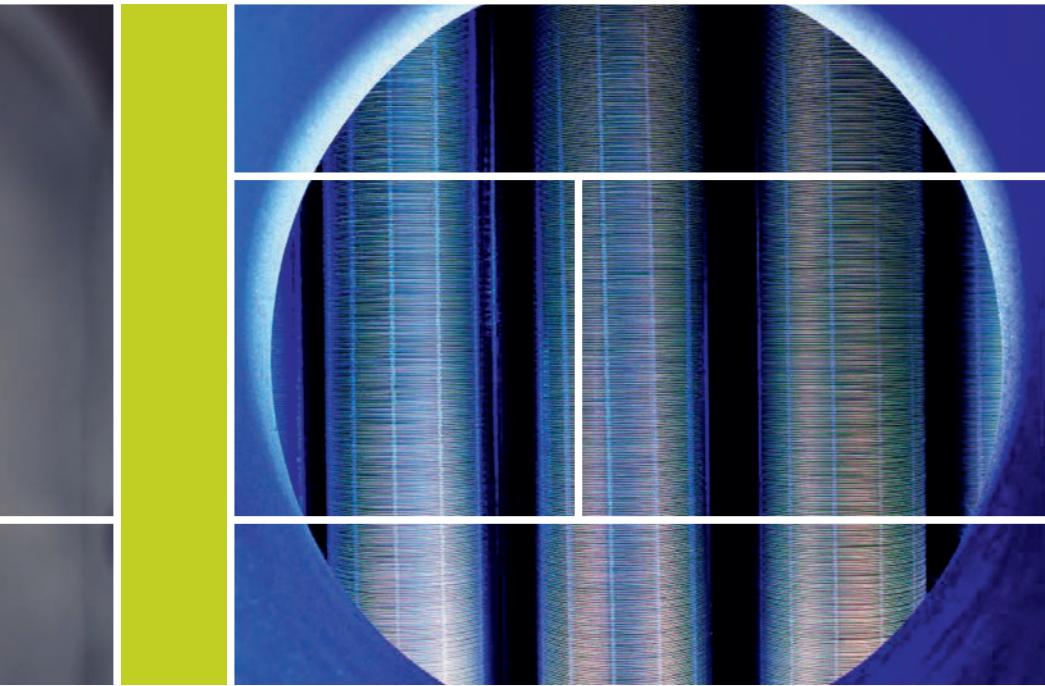
Chemical & petrochemical industry

- Ammonia & fertilizer
- LNG filtration
- Fine chemicals
- Amine filtration
- Gas treatment/dehydration
- Gas sweetening
- Process water
- Paints & resins
- Solvents



Refineries/oil & gas

- Filtration of hydrocarbons
- Hydrocracking & hydrotreating
- Catalyst protection
- Process water
- Amine filtration
- LNG/LPG cleaning
- Injection water
- Fuel gas
- Shale oil & shale gas



Energy production

- Cooling water
- Condensate filtration
- Heat transfer fluids
- Filter separators
- Fuel gas
- Syngas



Steel industry

- Process water
- Cooling water
- Spray nozzle protection
- Rolling oil
- Burner gas



Water treatment

- Seawater
- River water
- Process water
- Geothermics
- Demineralized water
- Brackish water
- Effluent
- Agriculture/irrigation



Paper industry

- River water
- Process water
- Membrane system protection
- Additives

An overview of filtration technology

Types of filtration, application areas, separation limits

To provide you with a quick overview of FAUDI's expertise, we have summarized the most important categories of information here.

TYPES OF FILTRATION

We offer a versatile spectrum of filtration solutions and methods for separating mixtures of substances:

- Surface filtration
- Microfiltration
- Pressure filtration
- Precoat filtration
- Dynamic filtration
- Depth filtration
- Vacuum filtration
- Layer filtration
- Membrane filtration

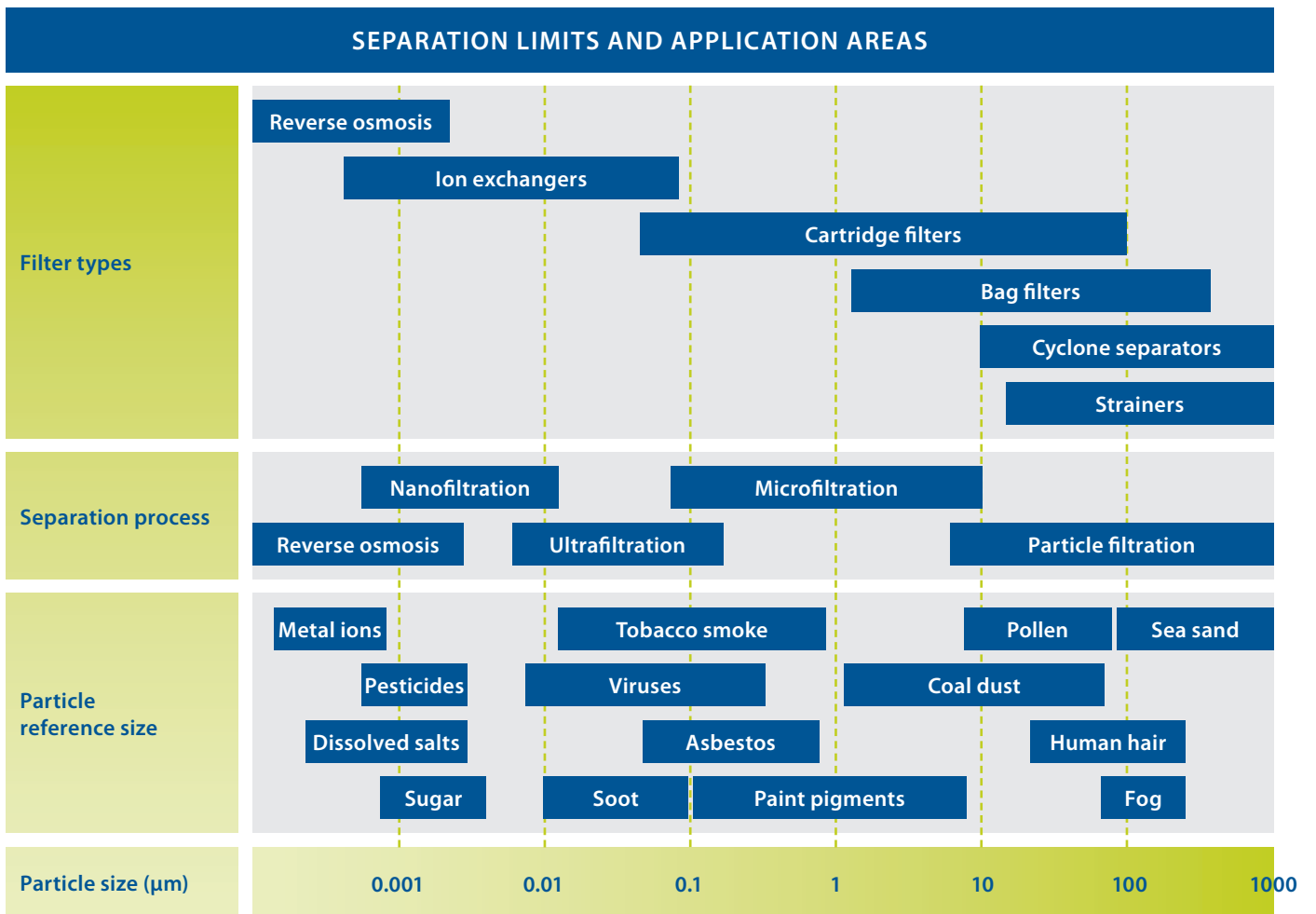
GENERAL AREAS OF APPLICATION

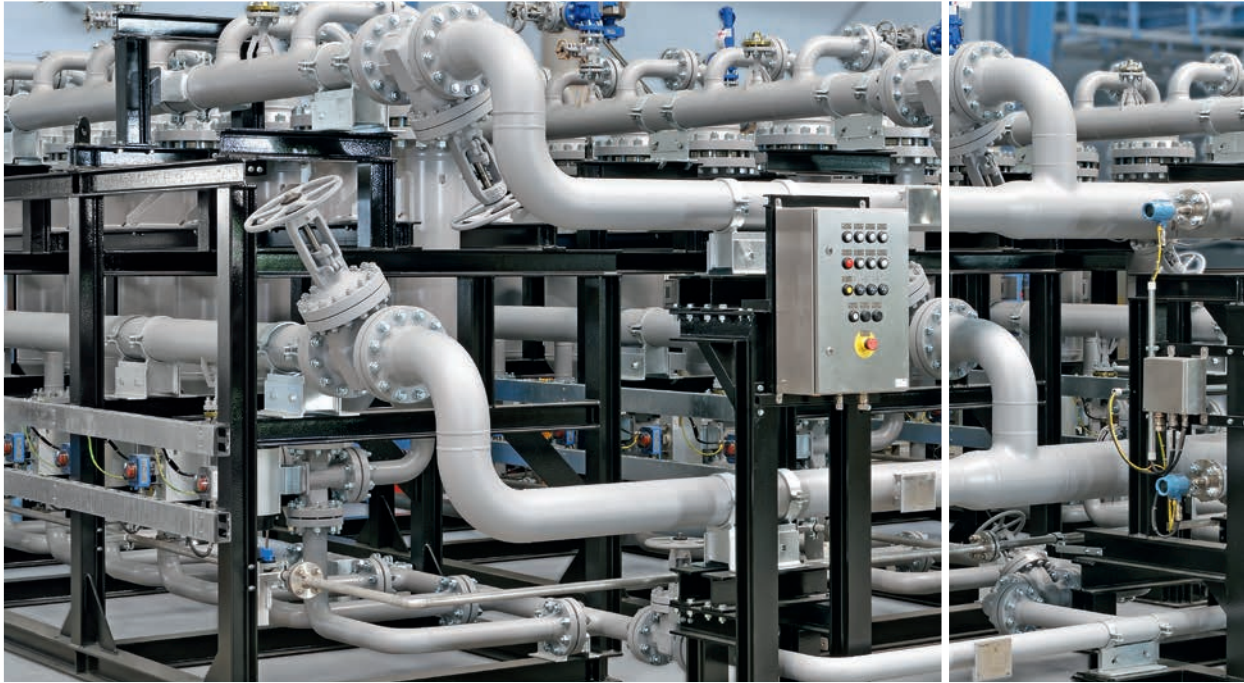
We provide filtration solutions and separation processes for the following areas of application:

- Filtration of solids from liquids and gases
- Separation of gases from liquids
- Separation of liquids from gases
- Separation of liquid phases with different densities, viscosities and surface tensions

SEPARATION LIMITS

This chart shows typical filter application areas and separation limits to help you make an initial selection concerning a filter system:





The whole world of filtration

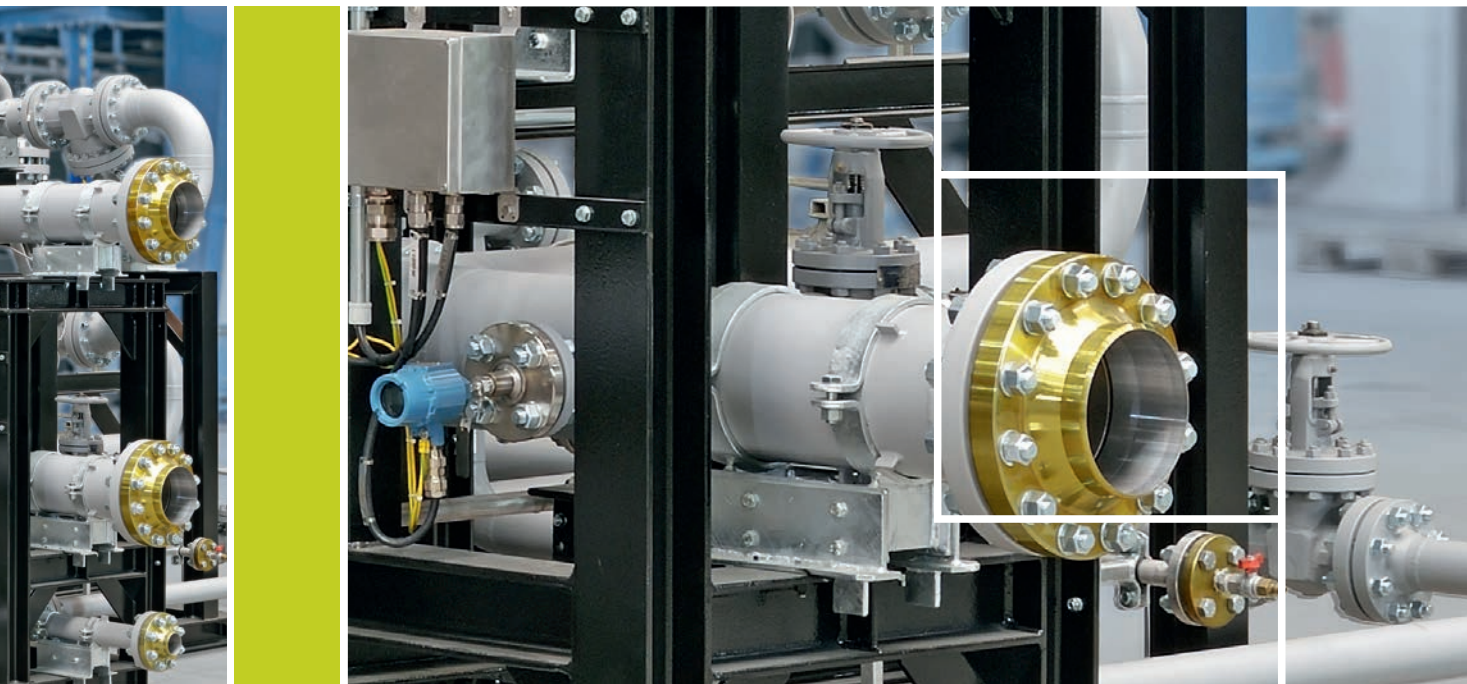
An overview of our products.

FAUDI offers filter technologies for widely diverse applications. We have summarized the entire spectrum of solutions we offer including an extensive range of accessories for you here.



Precoat filters

The largest German automobile manufacturer has relied on the quality of FAUDI precoat filters for many years.



Sieve filters

- Pipeline protection sieves
- Strainers
- Sieve basket filters
- Sieve cylinder filters

Cartridge filters

- Cartridge filters
- Precoat filters

Automatic filters

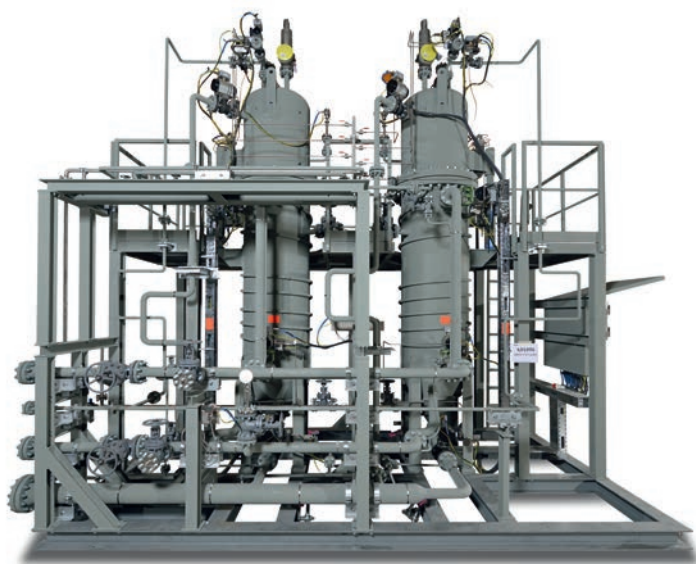
- Fully automatic backflush filter
- Module filter systems
- Jet-pulse filters
- Slot-type filters

Separators

- Gas separators
- Coalescers
- Demister separators
- Filter separators

Bed filters

- Activated charcoal adsorbers
- Layer filters



Cartridge filters
Automatic cartridge filter package
in a modular design

Pipeline protection sieve
Safety filters in pipelines,
temporary or permanent.



Sieve filters

Pipeline protection sieves (S7)

APPLICATION AREAS

Pipeline protection sieves are used as start-up sieves during commissioning operations to protect pumps and compressors as well as measuring and control systems. In the permanent production process, they serve as a “safety filter” for long-term plant protection. They are installed with two seals between a pair of flanges and the large filter surface area offers a long service life with less pressure loss.

We are able to complement our standard sizes as needed with specially made products tailored to your use case, for example, with custom dimensions, adaptations to suit the shape of seals or flanges and with other levels of filtration fineness.

Properties

- For installation between flanges (to DIN EN/ASME)
- Made of stainless steel
- Flow direction from inside towards the outside
- Horizontal or vertical mounting orientation possible

Filtration capacity

This is dependent on the filter size and the filter medium.

Filtration capacities from **15 m³/h to 2,500 m³/h** are possible.

Data and facts

- Filtration fineness: 250 µm – 5000 µm
- Fluids: Liquids and gases
- Filter material: Perforated conical steel sheet with/without wire mesh of stainless steel

Your advantages at a glance

- Low pressure loss due to large filtration surface area
- Compact, robust design
- Completely welded, no brazed connections

Sieve filters

T strainers and Y strainers (S8 and S9)

APPLICATION AREAS

T and Y strainers are economical alternatives when it comes to the filtration of coarse contaminants and the percentage of dirt to be filtered is low. They are most commonly installed in pipelines for filtering liquid and gaseous media such as steam, air, nitrogen, natural gas, etc.

We are able to complement our standard sizes as needed with specially made products tailored to your use case, for example, with custom shapes and dimensions, other levels of filtration fineness and other materials.

Filtration capacity

This is dependent on the filter size and the filter medium. Filtration capacities from **50 m³/h to 7,500 m³/h for T strainers and 15 m³/h to 2,000 m³/h for Y strainers** are possible.

Data and facts

- Filtration fineness: 100 – 5000 µm
- Fluids: Liquids and gases
- Filter material: Sieve disc with/without stainless steel wire mesh (S8); sieve disc or sieve cylinder with/without stainless steel wire mesh (S9)

Your advantages at a glance

- Compact, robust design
- Manufactured with a welded design
- The shape allows integration directly in pipelines
- Low pressure loss
- Cleanable filter materials
- Horizontal or vertical mounting orientation possible
- Suitable for liquids, gases or steam



Y strainer

Efficient filtration solution for many applications.

Sieve filters

Sieve basket filter, standard and inline (S11 and S21)

APPLICATION AREAS

Sieve basket filters are used for coarse or pre-filtration of liquid, viscous and gaseous media. With our series, you will find sieve basket filters for almost all fluids and flow rates. Our sieve basket filters in a welded design are available as single or double filters with fittings, instrumentation and interconnecting pipes.

We are able to complement our standard sizes as needed with specially made products tailored to your use case, for example, with custom shapes and dimensions, other levels of filtration fineness and other materials.

Filtration capacity

This is dependent on the filter size and the filter medium. Filtration capacities from **10 m³/h to 10,000 m³/h** are possible.

Data and facts

- Filtration fineness: 50 – 5,000 µm
- Fluids: Liquids and gases
- Filter material: Sieve basket with/without stainless steel wire mesh (S11); sieve basket with/without stainless steel wire mesh (S21)

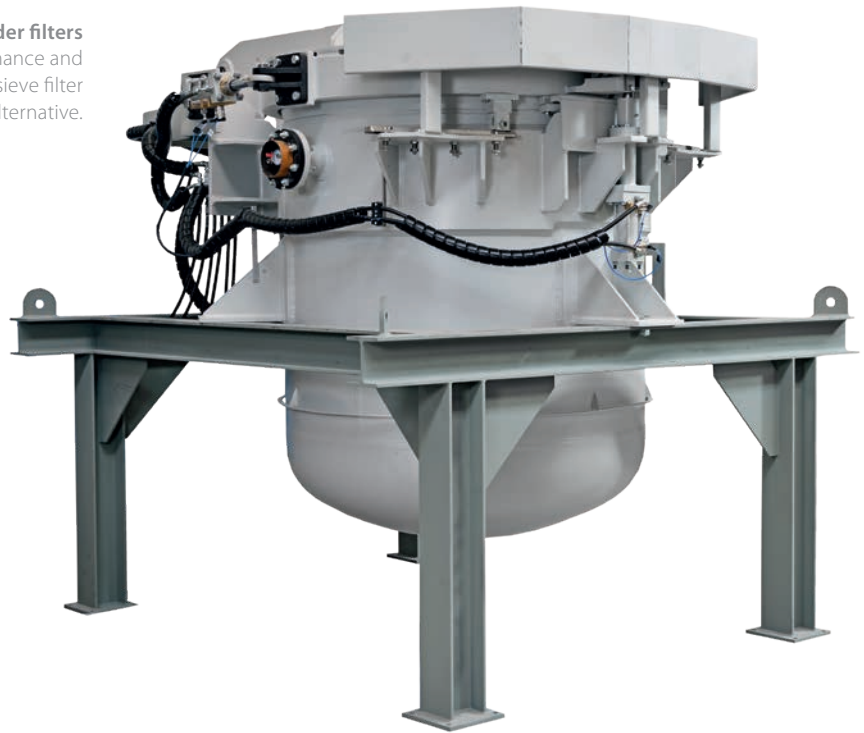
Your advantages at a glance

- Compact design
- Connections at same height in the inline version
- Robust and user friendly
- For high differential pressures
- Low pressure loss
- Cleanable filter materials
- Can be used as pressure or suction filters
- Heat tracing is possible
- Double-filter design is possible



Sieve basket filters
Compact and robust simple filter with many options.

Sieve cylinder filters
High-performance and
user-friendly sieve filter
alternative.



Sieve filters

Sieve cylinder filters, standard and inline (S13 and S26)

APPLICATION AREAS

Sieve cylinder filters are ideal for coarse and fine filtration. They offer maximal filter surface area by using sieve cylinders arranged in parallel which can be equipped with either a wire mesh or a filter bag. The fundamental concept behind the sieve cylinder filter makes it primarily suitable for filtration of low-viscosity media and gases with a higher contaminant content or lower filtration finenesses.

We are able to complement our standard sizes in welded construction as needed with specially made products tailored to your use case, for example, with custom shapes and dimensions, other levels of filtration fineness and other materials.

Filtration capacity

This is dependent on the filter size and the filter medium. Filtration capacities from **25 m³/h to 5,000 m³/h** are possible.

Data and facts

- Filtration fineness: 1 – 5000 µm
- Fluids: Low-viscosity media and gases
- Filter material: Sieve cylinder with/without wire mesh of stainless steel, filter bag

Your advantages at a glance

- Greater volumetric flow rates as compared to sieve basket filters with the same dimensions
- Connections at same height in the inline version
- Robust and user friendly
- Large filtration surface areas yield high contaminant holding capacities and long service lives
- Easy insert replacement due to low weight of the sieve cylinder
- Can also be equipped with a filter bag if desired
- Double-filter design is possible

Cartridge filters
Flexible filter system for liquid
and gaseous media.



Cartridge filters

Cartridge filters (C24, C34, C37, C39)

APPLICATION AREAS

Cartridge filters are a very common type of filter design for use in the filtration of fluids in many areas of industry. The FAUDI cartridge filter series provide a wide variety of cartridge filter versions suitable for numerous applications and filtration system solutions. Depending on the cartridge filter configuration, these filters are used for either surface filtration or depth filtration.

We are able to complement our standard sizes in welded construction as needed with specially made products tailored to your use case, for example, with custom shapes and dimensions, other levels of filtration fineness and other materials.

Filtration capacity

This is dependent on the filter size and the filter medium. Filtration capacities from **5 m³/h to 1,500 m³/h** for liquids and **50 Am³/h to 20,000 Am³/h** for gases are possible.

Data and facts

- Filtration fineness: 0.3 µm – 100 µm (C34, C37, C39)
1 µm – 100 µm (C24)
- Fluids: Aqueous media, hydrocarbons, amines, glycols and gases
- Filter material: Filter cartridges, smooth, wounded or pleated, of cellulose, PP, PA, PES, cotton, fibre glass, stainless steel (C34, C37, C39); filter cartridges with/without stainless steel wire mesh, sintered or ceramic cartridges (C24)

Your advantages at a glance

- Robust and user friendly
- High quality and high contaminant holding capacities
- Inline version with connections at same height possible
- For use as pressure or suction filters
- Double-filter version is possible
- Cleanable filter cartridge versions available

Cartridge filters

Precoat filters (AS, AST, ASG)

APPLICATION AREAS

Precoat filter with wet discharge, Type AS

Conventional precoat filtration with wet discharge; the sludge treatment takes place in secondary filters.

Precoat filter with dry discharge, Type AST

Advantages include the low space requirements, no secondary sludge treatment is necessary, dry filter cake discharge as well as a wear-free cartridge.

Electroplating precoat filter, Type ASG

Cleaning of electroplating baths (acid baths), treatment of salt solutions, electrochemical processing and the treatment of other aggressive media.

The dimensioning of precoat filter systems is tailored to your use case, for example, with custom shapes and dimensions as well as other materials and customer specifications.

Filtration capacity

This is dependent on the filter size and the filter medium. The modular design makes it possible to adapt the filtration capacity to suit individual needs. Filtration capacities from **5 m³/h to 500 m³/h** are possible.

Data and facts

- With filter aid
- Filtration fineness: 1 µm – 10 µm
- Fluids: Aqueous media, amines, acid baths, emulsions
- Filter material: Filter cartridges with/without wire mesh of stainless steel or PA

Your advantages at a glance

- Robust and user friendly
- Highest possible filtration qualities
- High contaminant holding capacities
- Especially economical for large volumetric flow rates
- Compact design

Precoat filters

With a filtration capacity of 15,000 l/min and a filtration fineness of 3 µm, in use by the largest automotive supplier worldwide.



Automatic filters

Fully automatic backflush filters (F30)

APPLICATION AREAS

The fully automatic backflush filter has proven itself in numerous industrial applications as a process-reliable, high-performance and largely maintenance-free backflush filter system. Employing the concept of fully automatic backflushing of the filter cartridges, the filter cleans itself during the ongoing filtration process with no interruption of operation.

The exceptionally reliable technology and construction of the FAUDI fully automatic backflush filters has also proven itself in the most demanding conditions found in numerous offshore installations.

We are able to complement our standard sizes in welded construction as needed with project-specific products using the ideal materials, coatings and controls – all tailored to your use case or the customer specifications, standards and norms required.

Filtration capacity

This is dependent on the filter size and the filter medium. The modular design makes it possible to adapt the filtration capacity to suit individual needs. Filtration capacities from **25 m³/h to 12,000 m³/h** are possible.

Data and facts

- Filtration fineness: 25 µm – 3,000 µm
- Fluids: Cooling water, emulsions and seawater
- Filter material: Slotted tube or wire mesh cartridges of stainless steel, duplex or super-duplex stainless steel

Your advantages at a glance

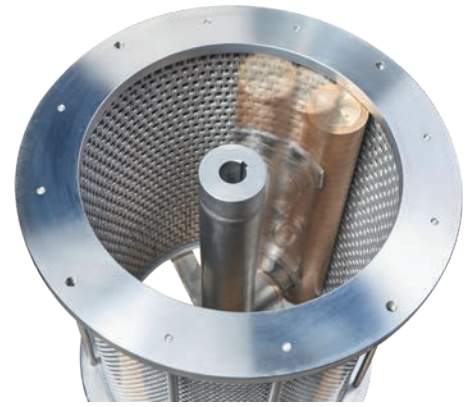
- No interruption of filtering during backflushing
- High quality, low maintenance and wear
- Robust and functional design
- Various control versions
- Operationally ready units or skids



Fully automatic backflush filter

Suitable for high flow rates and proven under the most difficult conditions.

Fully automatic sectional backflush filters
Backflushing/cleaning with no residues.



Automatic filters

Fully automatic sectional backflush filters (F32)

APPLICATION AREAS

The fully automatic backflush filter with sectional cleaning complements our proven and process-reliable backflush filter series for filtration fineness requirements down to 5 µm.

This innovative filter system combines performance, highly efficient backflushing technology and a maintenance-friendly spare parts concept in a separate FAUDI backflush filter series.

We are able to complement our standard sizes in welded construction as needed with project-specific products using the ideal materials, coatings and controls – all tailored to your use case or the customer specifications, standards and norms required.

Filtration capacity

This is dependent on the filter size and the filter medium. The modular design makes it possible to adapt the filtration capacity to suit individual needs. Filtration capacities from **100 m³/h to 430 m³/h** are possible.

Data and facts

- Filtration fineness: 5 µm – 100 µm
- Fluids: Aqueous media, amines, emulsions, hydrocarbons/oils
- Filter material: Slotted tube or wire mesh cartridges of stainless steel, duplex or super-duplex stainless steel

Your advantages at a glance

- No interruption of filtering during backflushing
- High contaminant holding capacities
- Residue-free cleaning of the entire filter surface area with a minimal backflush volume
- Low-wear and maintenance-friendly spare parts concept
- Modern PLC control and/or remote monitoring
- Operationally ready units or skids

Module filters
Robust and reliable
with low operating and
maintenance costs.



Automatic filters

Module filters with internal medium backflushing (F29)

APPLICATION AREAS

The fully automatic backflush filter has proven itself in numerous industrial applications as a process-reliable high-performance and largely maintenance-free backflush filter system. Employing the concept of fully automatic backflushing of the filter cartridges, the filter cleans itself during the ongoing filtration process with no interruption of operation. A portion of the volumetric flow that has already been filtered is used for backflushing.

The dimensioning of module filter systems is tailored to your use case, for example, with custom shapes and dimensions as well as other materials and customer specifications.

Filtration capacity

This is dependent on the filter size and the filter medium. The modular design makes it possible to adapt the filtration capacity to suit individual needs. Filtration capacities from **15 m³/h to 500 m³/h** are possible.

Data and facts

- Filtration fineness: 20 µm – 100 µm
- Fluids: Diesel oils, gas oil, LCO, VGO, HVGGO, naphtha, amines (MDEA), acidic water
- Filter material: Slotted tube, wire mesh or multi layer wire mesh cartridges of stainless steel
- Control: Connection to existing control systems of the customer, separate operating/control panel, EX protection

Your advantages at a glance

- Increased cost-effectiveness in fuel production processes
- Enables production of lighter fuels meeting increased environmental protection requirements
- Fully automatic, continuous production process thanks to fully automatic backflushing for regeneration/cleaning of the filter elements
- Optimal combination of longevity, high contaminant holding capacity and minimized backflushing losses
- Unsurpassed flexibility with respect to flow rate, contaminant amount and changing future requirements thanks to its modular design
- Backflushing is independent of the existing operating pressure
- Durable and low in maintenance

Automatic filters

Module filters with external medium backflushing (F28)

Data and facts

- Filtration fineness: 20 µm – 100 µm
- Fluids: Diesel oils, gas oil, LCO, VGO, HVGO, naphtha, amines (MDEA), acidic water
- Filter material: Slotted tube, wire mesh or multi layer mesh cartridges of stainless steel
- Control: Connection to existing control systems of the customer, separate operating/control panel, EX protection

Your advantages at a glance

- Increased cost-effectiveness in fuel production processes
- Enables production of lighter fuels meeting increased environmental protection requirements
- Fully automatic, continuous production process thanks to fully automatic backflushing for regeneration/cleaning of the filter elements
- Optimal combination of longevity, high contaminant holding capacity and minimized backflushing losses
- Unsurpassed flexibility with respect to flow rate, contaminant amount and changing future requirements thanks to its modular design
- Backflushing is independent of the existing operating pressure
- Durable and low in maintenance

APPLICATION AREAS

The fully automatic backflush filter has proven itself in numerous industrial applications as a process-reliable, high-performance and largely maintenance-free backflush filter system. Employing the concept of fully automatic backflushing of the filter cartridges, the filter cleans itself during the ongoing filtration process with no interruption of operation. An additional (external) flushing medium is used for backflushing.

The dimensioning of module filter systems is tailored to your use case, for example, with custom shapes and dimensions as well as other materials and customer specifications.

Filtration capacity

This is dependent on the filter size and the filter medium. The modular design makes it possible to adapt the filtration capacity to suit individual needs. Filtration capacities from **15 m³/h to 500 m³/h** are possible.



Module filters
Fully automatic operation
without continuous
operating personnel
presence.

Module filters

Innovative and unique filter system with outstanding filtration properties.



Automatic filters

Module filters with gas-assisted internal medium backflushing (F27)

APPLICATION AREAS

Employing the concept of fully automatic backflushing of the filter cartridges, the predominantly maintenance-free module filter cleans itself during the ongoing filtration process with no interruption of operation. A portion of the volumetric flow that has already been filtered is used for backflushing. Before cleaning, an inert gas (e.g. nitrogen) is used to build up a pressure reserve in the module that is to be cleaned. The subsequent cleaning by means of flow reversal then takes place with the pressure created using the inert gas.

The dimensioning of module filter systems is tailored to your use case, for example, with custom shapes and dimensions as well as other materials and customer specifications.

Filtration capacity

This is dependent on the filter size and the filter medium. The modular design makes it possible to adapt the filtration capacity to suit individual needs. Filtration capacities from **5 m³/h to 500 m³/h** are possible.

Data and facts

- Filtration fineness: 3 µm – 50 µm
- Fluids: Diesel oils, gas oil, LCO, VGO, HVGO, naphtha, amines (MDEA), acidic water
- Filter material: Slotted tube, wire mesh, multi layer wire mesh or sintered metallic cartridges of stainless steel
- Control: Connection to existing control systems of the customer, separate operating/control panel, EX protection

Your advantages at a glance

- High cleaning efficiency
- Fully automatic, continuous production process thanks to fully automatic backflushing for regeneration/cleaning of the filter elements
- Optimal combination of longevity, high contaminant holding capacity and minimized backflushing losses
- Unsurpassed flexibility with respect to flow rate, contaminant amount and changing future requirements thanks to its modular design
- Backflushing is independent of the existing operating pressure
- Durable and low in maintenance

Automatic filters

Jet pulse filters (F35)

APPLICATION AREAS

Jet pulse filters belong to the group of regenerable cartridge filters. The manner of cleaning used for these filters is that of jet-pulsed pressure cleaning. Cleaning in jet-pulse filter systems is accomplished using an intense compressed-air or inert-gas pressure impulse which reverses the flow direction abruptly in the individual filter cartridges or banks of cartridges thereby causing the filter cake to be released.

The flow through the filter media (e.g. hoses or cartridges) moves from the outside inwards during the filtration phase; a supporting frame provides the element with the necessary stability. Depending on the contaminant or dust load, the cleaning takes place by means of a pressure impulse, typically controlled by the measurement of the filter's differential pressure.

The dimensioning of the jet pulse filter systems is governed by the project specifics and is thus matched to your use case, for example with custom shapes and dimensions as well as materials and customer specifications.

Filtration capacity

This is dependent on the filter size and the filter medium. The design of the series makes it possible to adapt the filtration capacity to suit individual needs. Filtration capacities from **50 Am³/h to 1,000 Am³/h** are possible.

Data and facts

- Filtration fineness: 0.5 µm – 100 µm
- Fluids: Process gases, syngas, hexanes, nitrogen
- Filter material: Filter hoses, filter wire mesh, sintered metallic cartridges

Your advantages at a glance

- Exceptional cleaning performance in the filter elements due to the capacity for individual back blowing of the filter elements.
- Pulse timing either electrical or pneumatic
- Design for high process temperatures available
- Robust design
- Minimal filter differential pressure



Jet pulse filter
Efficient pressure pulse cleaning
using air or inert gas.

Slot-type filters

Slot-type filters with mechanical cleaning (T84, T87)

APPLICATION AREAS

For FAUDI slot-type filters, extreme conditions in the filtration of liquids coupled with automatic cleaning are no problem. Our slot-type filter series offer solutions for highly viscous media, for high pressures or temperatures as well as for CIP requirements. Employing the concept of mechanical cleaning of the insert, the filter cleans itself during the ongoing filtration process with no interruption of operation.

We are able to complement our standard sizes in welded construction as needed with project-specific products using the ideal materials, cover sealing systems and controls – all tailored to your use case or the customer specifications, standards and norms required.

Filtration capacity

This is dependent on the filter size and the filter medium. Filtration capacities from **25 m³/h to 600 m³/h** are possible.

Data and facts

- Filtration fineness: 30 µm – 5,000 µm
- Fluids: Oils, water, chemicals, paints and varnishes, juices, rapeseed oil, whey, deep-frying oil
- Filter material: Slotted tube or perforated sheet of stainless steel

Your advantages at a glance

- Select from manual, semi or fully automatic cleaning
- No interruption of filtering during cleaning
- Robust and functional design
- Easy operation and maintenance
- Available optionally with a heating jacket or heating coil



Slot-type filters

Robust filter system for aqueous to highly viscous media.

Slot-type filters
Good filter finenesses even with high contamination concentrations.



Slot-type filters

Slot-type filters with mechanical cleaning and flushing (T88)

APPLICATION AREAS

For FAUDI slot-type filters with flushing, extreme conditions in the filtration of liquids coupled with automatic cleaning are no problem. Employing the concept of mechanical cleaning of the insert by means of brushing and nozzles, the filter cleans itself during the ongoing filtration process with no interruption of operation.

We are able to complement our standard sizes in welded construction as needed with project-specific products using the ideal materials, cover sealing systems and controls – all tailored to your use case or the customer specifications, standards and norms required.

Filtration capacity

This is dependent on the filter size and the filter medium. Filtration capacities from **5 m³/h to 150 m³/h** are possible.

Data and facts

- Filtration fineness: 10 µm – 5,000 µm
- Fluids: Effluent, waste oil, slurry, fermentation residues
- Filter material: Slotted tube or perforated steel sheet with/without wire mesh of stainless steel

Your advantages at a glance

- Select from semi or fully automatic cleaning
- No interruption of filtering during cleaning
- Robust and functional design
- Easy operation and minimized maintenance
- Available optionally with a heating jacket or heating coil

Separators

Centrifugal gas separators (P54)

APPLICATION AREAS

The centrifugal gas separator is installed in volumetric measuring systems to prevent measuring errors due to gas and air inclusions in the liquid media to be measured.

Use in transfer handling facilities ensures that downstream volumetric meters will provide measurements with reliable tolerances.

We are able to complement our standard sizes in welded construction as needed with project-specific products using adapted dimensions and materials – all tailored to your use case.

Throughput capacity

This is dependent on the filter size. Throughput capacities up to max. **20,000 l/min** per individual device are possible.

Data and facts

- Filtration fineness: Separation technology
- Fluids: Liquids up to 20 mPa·s @20°C
- Separation with automatic deaerator

Your advantages at a glance

- Certified to MI005, WELMEC 8.8, OIML R 117-1
- Guaranteed gas separation performance
- Robust and maintenance-free design
- Versions available for loading and unloading processes



Centrifugal gas separator

Maintenance-free design with guaranteed separation performance.

Coalescers

Suitable for use in many application areas involving liquid-liquid separation.



Separators

Coalescers (P45)

APPLICATION AREAS

Coalescers are also referred to as filter water separators. The separation of liquid-liquid dispersions can be accomplished with the help of coalescer elements. These dispersions are more or sometimes less unstable and can sometimes be separated under certain preconditions due to the difference in density between the phases. In addition to the density difference, viscosity and interfacial surface tension also play an important role in the separability. The process by which droplets flow together is referred to as coalescence.

This product line finds use in separation technology, whether in the separation of a liquid mist from a gas flow, of two emulsified liquids or in the stripping of gases from a liquid.

Throughput capacity

This is dependent on the filter size. Throughput capacities from **15 m³/h to 750 m³/h** are possible.

Data and facts

- Filtration fineness: 0.3 µm – 20 µm
- Fluids: Hydrocarbons (kerosene, diesel, oils), water, gas
- Filter material: Coalescer elements, cellulose pleated elements, separator elements

Your advantages at a glance

- Large separation surface areas
- Suitable for high water contents in oils/diesel fuels; especially in combination with separator elements, provides highest-level separation performance and efficiency
- Designed with 2 separation stages (filter/coalescer, coalescer/separator)
- Very great longevity of the coalescer elements, especially in combination with prefilters for the reduction of the contamination load
- Available with instrumentation and automatic drain valves

Separators

Filter separators (P45)

APPLICATION AREAS

FAUDI filter separators are used for removing solid and liquid components from process gases and natural gases. The separation of solid and liquid contaminants is accomplished through built-in components such as filter and/or coalescer elements, lamella packets, multi-cyclone packets or a combination of installed components. Particles, ultra-fine droplets and aerosols are separated.

We are able to complement our standard sizes in welded construction as needed with project-specific products using adapted dimensions and materials – all tailored to your use case.

Throughput capacity

This is dependent on the separator size. Throughput capacities from **50 Am³/h to 20,000 Am³/h** per individual device are possible.



Filter separators

Separation of solid and liquid contaminants from gas flows.

Data and facts

- Filtration fineness: down to 0.3 µm particles
- Separation performance: down to 1 µm droplets
- Fluids: Process gases, natural gases
- Filter material: Coalescer elements, pleated cellulose elements, lamella packets and cyclones

Your advantages at a glance

- Very fine separation of particles and liquid droplets
- Suitable for use under extreme temperature and pressure conditions
- Max. operating pressures of up to 200 bar
- Low pressure losses
- Sour gas design to NACE or ISO

Mesh pad separators

Suitable for use in both gaseous-liquid and liquid-liquid separation applications.



Separators

Mesh pad separators (P51)

APPLICATION AREAS

This product line finds use in separation technology, whether in the separation of a liquid mist from a gas flow, of two emulsified liquids or in the stripping of gases from a liquid. FAUDI offers an application-oriented, practical solution for these tasks in the form of the mesh pad separator. These separators offer a high level of separation performance even under elevated temperature or pressure conditions.

We are able to complement our standard sizes with in construction as needed with project-specific products using adapted dimensions and materials – all tailored to your use case.

Throughput capacity

This is dependent on the filter size. Throughput capacities from **5 m³/h to 300 m³/h** for liquids and **100 Am³/h to 10,000 Am³/h** for gases are possible.

Data and facts

- Separation performance: 3 µm to 100 µm droplet size
- Fluids: Air, process gases, liquids
- Filter material: Mesh pad packet of stainless steel, plastic or metal/plastic combinations

Your advantages at a glance

- Fine degree of separation of liquid droplets
- Suitable for use under extreme temperature and pressure conditions
- Low pressure loss
- Insensitive to contamination
- Uncomplicated installation and maintenance

Activated charcoal adsorbers
Filled with high-quality activated charcoal optimized for the respective application.



Bed filters

Activated charcoal adsorbers (P62)

APPLICATION AREAS

Activated charcoal adsorbers are used for the treatment and cleaning of both liquids and gases. The objective is the removal of undesired substances such as oils and hydrocarbons or unwanted, in part even poisonous, chemicals and heavy metals from gases or liquids. The activated charcoal adsorbers are filled with activated charcoal to accomplish this. The bed of activated charcoal is subjected to a flow from top to bottom. The best treatment qualities are dependent on the activated charcoal used, an optimal contact time, the flow rate and the depth of the bed.

We are able to complement our standard sizes in welded construction as needed with project-specific products using adapted dimensions and materials – all tailored to your use case.

Throughput capacity

This is dependent on the filter size. Throughput capacities from **5 m³/h to 100 m³/h** for liquids are possible.

Data and facts

- Filtration fineness: Separation technology
- Fluids: Liquids and gases, aqueous amine solutions, air
- Filter material: Activated charcoal

Your advantages at a glance

- Regenerable
- Low operating costs due to low differential pressure and long service life
- Operationally ready units or skids

Bed filters

Layer filters (P62)

APPLICATION AREAS

These layer filters, also referred to as dual or multi-media filters, are used to reduce the content of suspended solid matter (clouding) in seawater or process water. Suspended solids consist of small particles such as sludge, clay, grit, organic substances, algae and other microorganisms. Feed water with a high content of suspended solids can cause a significant pressure loss and impair the effectivity of downstream systems.

Filtration takes place by physically restraining contaminants in the intermediate spaces between the granules of the individual filter layers. Regeneration is accomplished by means of backflushing.

We are able to complement our standard sizes in welded construction as needed with project-specific products using adapted dimensions and materials – all tailored to your use case.

Filtration capacity

This is dependent on the filter size and the filter medium. Filtration capacities from **50 m³/h to 750 m³/h** are possible.

Data and facts

- Filtration fineness: 0.3 µm – 10 µm
- Fluids: Process and seawater
- Filter material: Technical fill material, anthracite, sand

Your advantages at a glance

- Very high filtration rates of up to 50 m³/h m²
- High contamination holding capacity (500 mg/l)
- Very low backflushing water consumption of 0.1 % to 1 %
- Exceptional filtration quality
- Long media service life
- Low space requirements
- Operationally ready units or skids



Layer filters
Backflushable filter system with single or multiple bed layers.



Screw presses

Sludge treatment

Screw presses (FSP)

APPLICATION AREAS

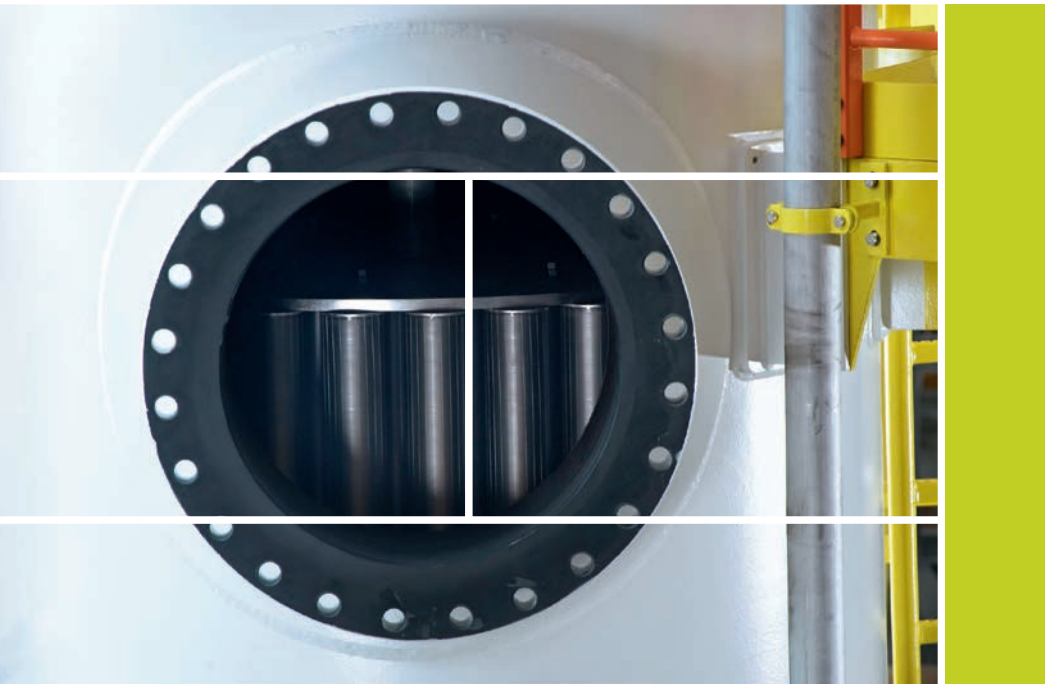
Our screw presses are an economical and ecological solution to significantly reduce the volume of your production waste products. FAUDI screw presses can be used as an ideal add-on module in combination with the briquetting presses to increase their throughput. However, they can also be used as an economical stand-alone solution or as an upgrade for all commercially available filter systems from other manufacturers. Benefit from our screw presses for resource recovery, dewatering, deoiling, etc.

Data and facts

- Attainable residual moisture: to 30 %
- Throughput capacity: up to 450 kg/h
- Depression diameter: 150 – 250 mm

Your advantages at a glance

- Avoid cost-intensive disposal of raw materials
- Separation of residual oils, emulsions and water from other raw materials
- Savings on fresh oils and emulsions
- Reduction in volume: remaining waste for disposal
- Usable as an economical stand-alone solution
- Usable in combination with FAUDI briquetting presses
- Optimal for combination with FAUDI filtration systems
- Can be combined with all commercially available filter systems from other manufacturers



FAUDI Service

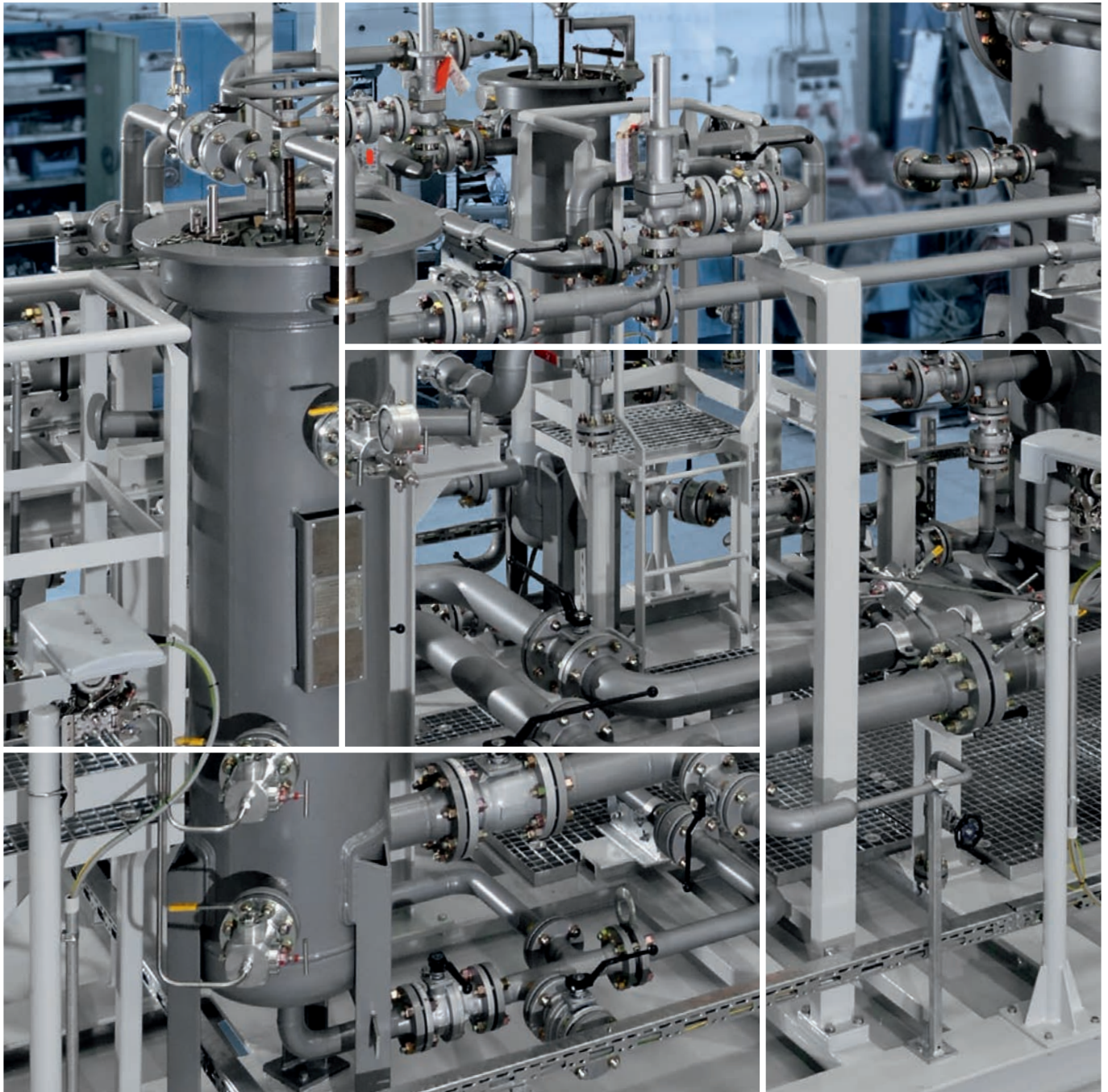
You can rely on it.

For us, service means that we are available to help you with every facet of your filtration system with competence and a focus on solutions – day by day, world-wide, over the entire service life.

In other words: You and the challenges you face in daily applications remain the centre of our attention even after your purchase. The reason is that our goal is to ensure your satisfaction with the filtration system over its entire service life. That is why we apply the same high quality standards for our services as we do for our filtration systems. You have a promise of quality that you can rely on!

Your advantages at a glance

- Competent technicians with a good knowledge of your filtration system
- An exact match for your needs as analysed
- Overall management through a competent partner
- Maintenance with original spare parts from FAUDI
- Foresight, training, damage analysis and prophylaxis
- Short-notice, flexible help and assistance in the event of problems with your filtration systems



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FAUDI FILTRATIONSTECHNOLOGIE
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