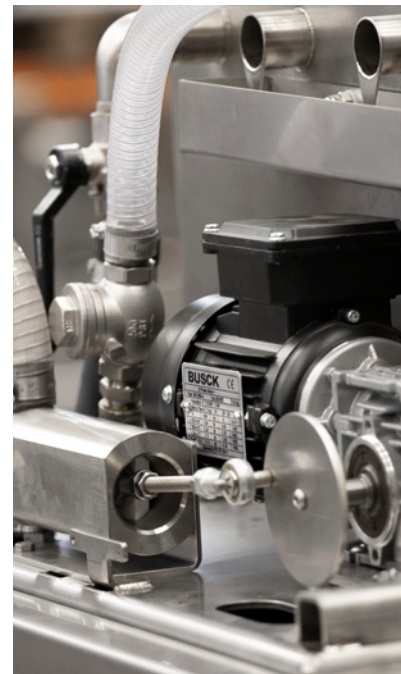


# FILTER SYSTEMS AND WATER TREATMENT

With the environment in mind

- Bandfilter
- Compact bandfilter
- Magnetic separator
- Filter housing
- Oil separator
- Masterclean
- Mobile filter unit
- Machine connections
- Piston pump
- Coolant saver
- Filter paper



# One-stop-shop for industrial filtration and cleaning systems

## Design – Develop – Deliver

At Filco we take great pride in controlling the entire process of designing, manufacturing, installing and servicing your industrial cleaning solution. Our dedicated employees and loyal subcontractors constitute a comprehensive and competent organization focused solely on customer satisfaction. Our own R&D and production facilities deliver the solutions you need, and our service organization keep them up and running. Around the world and around the clock.

## We get your job done

In addition to manufacturing our own standard and custom solutions we also have our own production of filters, and we carry all other necessary parts and accessories in stock. Our in-house experts are always standing by to assist you, whenever you need help.

## We've got you covered

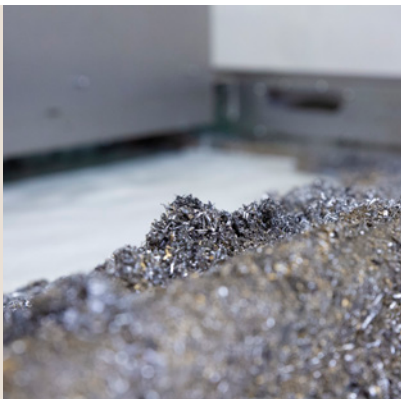
Our service organization is spread out both nationally and internationally. No matter where you are, and where you need us, we are never far away. Our broad expertise extends across industries, borders and technologies including magnet cleaning systems and other advanced solutions.



# CONTENT

## Why to invest? 7

Read about why Filtration benefits both budget and environment in a modern production.



## Bandfilter UF 8

Filco's high quality bandfilters are produced in stainless steel. They are mainly being used for filtration of non-explosive fluids for filtering of lubricants, oils and process fluids from cleaning systems and CNC-machines.



## Bandfilter TM 10

High quality bandfilter designed for large volumes and heavy-duty contamination. Its with a belt-conveyor which is transporting the filter cake and is available for volumes up to 3.000 L/min



## Bandfilter TMP 12

Bandfilter in polypropylene, developed for applications with highly corrosive fluids like salt water and acids. Based on the TM design used for the stainless steel filters.



## Bandfilter TME 14

High quality band filter designed for large volumes and heavy-duty contamination, it is made for coarse filtration and is with an endless-band system.



## Compact bandfilter 16

Bandfilter for filtering most thin liquids. Our compact bandfilter which is developed for mounting on production equipment and CNC machines in the metal industry.



## Magnetic separator 18

Easy to integrate into existing equipment and is mainly used for mounting on a bandfilter. This magnetic separator comes with a very powerful magnet and a large surface area which makes it extremely effective in removing the magnetic particles.



## Filter housing 20

We offer a wide-range of filter housings in stainless steel for both filterbags- and cartridges.



## Oil separator 22

Innovative high-quality oil separator constructed in stainless steel. The oil separator is designed with a four-chamber labyrinth system which ensures efficient separation of the oils.



## Masterclean 24

Reduce your operating costs significantly, extend the life of your tools and protect the environment with a central filtration system from us.



## Mobile filter unit 28

Our Mobile Filter Unit can be easily moved to and between the individual machines in a production, as it is mobile and easy to connect and operate.



## Connection 30

This is an essential part of the centralized filtration system, because why invest in a world class filtration system if you're not managing to transport all contaminants polluting the process fluid to the filtration unit.



## Piston pump 32

Our specially developed piston pump with stainless steel housing and gear motor ensures a gentle treatment of the fluids to ensure optimal separation of free oils.



## Coolant saver 34

Our coolant saver is manufactured and developed for continuous removal of small quantities of fluids from containers and tanks.



## Filter paper 36

We have a large stock of filter paper for direct delivery 24 hours a day. No challenges with downtime as a customer and no need for a large internal stock.



# PRECISION CLEANING

## What we do

We design, develop and deliver liquid cleaning and filtration equipment and services for demanding tasks and industries. Our experienced experts will make sure that your filtration system is installed and implemented effectively, and our extensive service and accessories programme will keep it up and running. Our filtration systems will also help you reduce operating costs and improve both your working environment and environmental profile of your company.

## How we do it

Our wide range of industry leading standard solutions will cover most demands within most industries. However, our extensive experience allows us to modify existing equipment and design custom solutions for any special task you might have. Filco is founded on customer focus, and our solid aim is to add value to your business through sustainable and user friendly solutions.

## Where we come from

Filco was founded by Steffen Myrvoll who has 30 years of experience in industrial filtration equipment and solutions. The fundamental purpose of the company is to be a one-stop-shop for precision cleaning equipment. Not only do we design and deliver both standard and custom solutions. We also provide global installation and maintenance and keep all vital parts and accessories in stock to ensure quick delivery and minimum down time for our customers.

## Filtration benefits both budget and environment

A proper and well-designed filtration system will remove dirt and residue from your lubricants and process fluids allowing them to be recycled over and over without damaging tools and other production equipment. This results in a number of both economic and safety related advantages.

Filtering and recycling your lubricants and process fluids will obviously reduce costs for new fluids as well as for disposal. It also reduces costs for maintenance and replacing tools and other production equipment which is subject to wear and tear when it comes into contact with fluids containing eg. metal chips, magnetic particles and graphite.

Filtration systems are also available to remove oil and grease from water preventing bacterial growth and for removing dust, hair, paint, resins and other hard particles.

The filtration system is a closed circuit system which only adds to the advantages mentioned above. Safety and working environment are dramatically improved as workers are no longer required to constantly handle and refill fluids manually. This also reduces man hours for manual refilling of fluids. Furthermore filtrating fluids will contribute positively to the environmental profile of your business.

A filtration system is suitable for most industries using lubricants, process fluids and precision cleaning equipment. From tool shops to food and medical. At Filco we not only design and deliver customized filtration systems. We also produce our own filters including our unique plastic filters which can be used for filtrating acids and salt water.

### Filtration systems adds value to your business by:

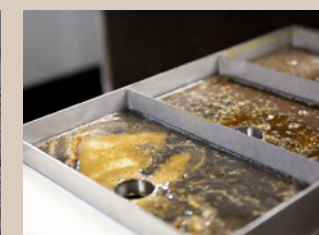
- Reducing costs for refilling and disposing of lubricants and process fluids
- Prolonging the life of tools and other equipment due to less wear and tear
- Reducing manual handling of chemicals and other dangerous fluids
- Reducing man hours for manual refilling of fluids
- Improving the overall environmental profile of your business.

To learn more feel free to contact us any time at [info@filco.dk](mailto:info@filco.dk) or +45 8750 9899



### Metal chips

The filtration systems removes metal- and plastic chips to improve lifecycle of the process water and machining tools.



### Oil and grease

Efficiently separates demulsifying oil and grease to improve lifecycle of the process water and prevent bacterial growth.



### Magnetic particles and graphite

The filtration systems can be equipped with magnetic separator to remove graphite, iron oxides and other magnetic particles from the process water.



### General contamination

Dust, hair, paint, resins and other hard particles etc. can be removed in our filtration systems which can filtrate down to 5 micron.



# BANDFILTER UF

Our high quality bandfilters are produced in stainless steel. They are mainly used for filtration of lubricants, oils and process fluids from cleaning systems and CNC-machines.

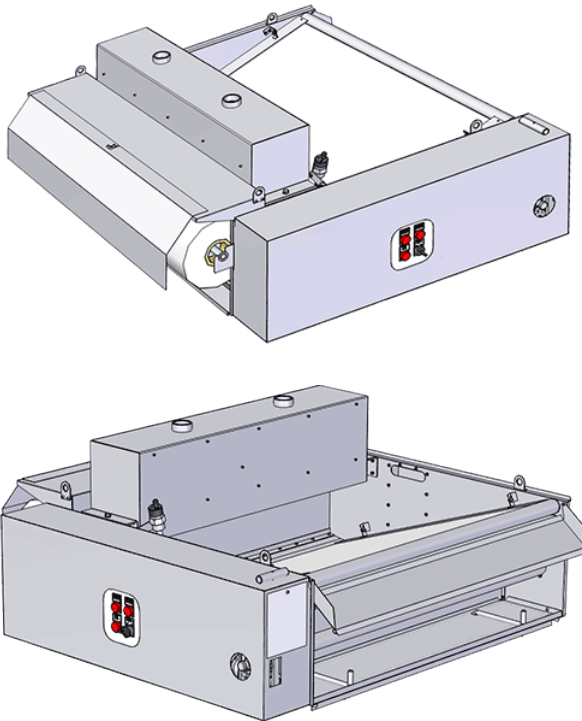
The bandfilters are produced in different sizes depending on customer needs and can filtrate up to 600 liters pr. minute. The bandfilters are using filtration paper which can be aquired in different types depending on the application. The bandfilters can be used separately as stand-alone-units or a build-in unit for larger filtration systems.

Applications:

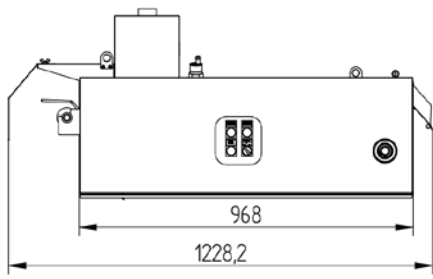
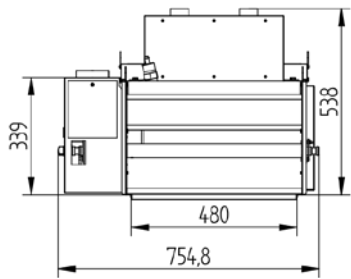
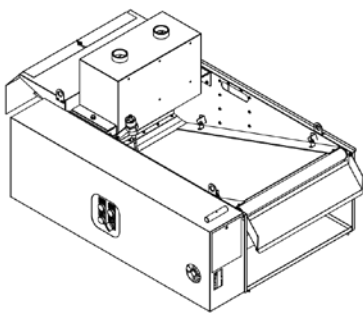
- Refrigerants and lubricants
- Process fluid
- Oil
- Water treatment
- Sewage

Extra options:

- Filter paper
- Stainless steel frame
- Polypropylene and stainless steel containers
- Stainless steel tank
- Construction in AISI 316



DRAWING:  
UF 500



- ✓ **100% stainless steel construction**  
Produced with a stainless steel frame.
- ✓ **Frequency-regulated**  
The frequency-regulated gear motor ensures gentle and slow movement of the filter paper which improves filtration significantly.
- ✓ **Analog control panel**  
The bandfilter includes a simple control panel including alarm lamps to provide information about filter paper status etc.
- ✓ **Hydrostatic bandfilter**  
The bandfilter works with the hydrostatic principle which means it's efficient and consumes the filter paper optimally. This reduces the operation cost and results in better filtration.
- ✓ **Level sensor**  
The level sensor ensures precise use of filter paper. No hysteresis.
- ✓ **CE - European machine directive**  
The bandfilter is produced in Denmark in accordance with the European machine directive.
- ✓ **Paper sensors**  
The bandfilter has built-in sensors for low paper and full paper.

MODEL	UF 250	UF 500	UF 700	UF 1000	UF 2000
Length	965 mm	965 mm	965 mm	965 mm	1965 mm
Width	450 mm	700 mm	900 mm	1200 mm	1200 mm
Inlet height (cascade)	538 mm	538 mm	538 mm	538 mm	657 mm
Flow capacity	100 L/min	150 L/min	250 L/min	350 L/min	600 L/min
Electrical connection	1x230V – 50 Hz	1x230V – 50 Hz	1x230V – 50 Hz	1x230V – 50 Hz	1x230V – 50 Hz
Control voltage	24V	24V	24V	24V	24V
Safety classification	IP54	IP54	IP54	IP54	IP54



# BANDFILTER TM

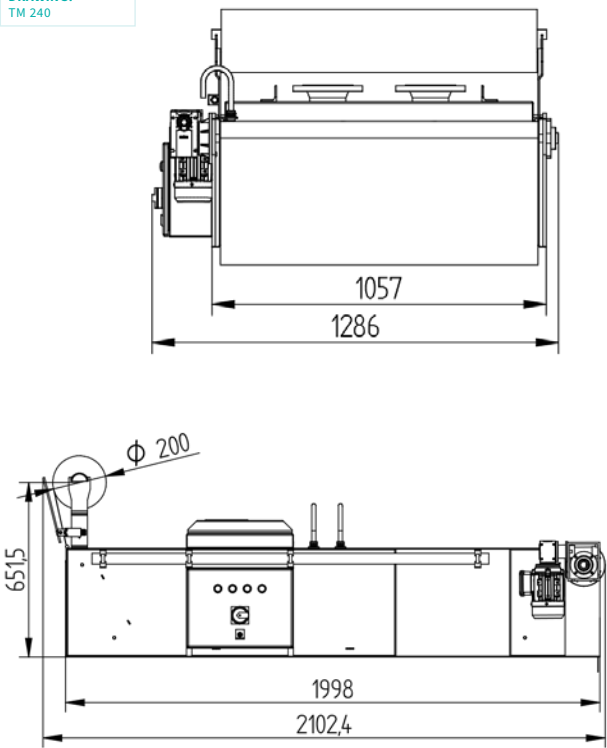
High quality bandfilter designed for large volumes and heavy-duty contamination. It's with a belt-conveyor which is conveying forward the filter paper and is available for volumes up to 3.000 L/min



- Extra options:
- Filter paper
  - Stainless steel support frame
  - Polypropylene- or stainless steel containers
  - Tank units
  - Available in AISI 316

MODEL	TM 40	TM 80	TM 140	TM 180	TM 240	TM 360	TM 550
Flow capacity	216 L/min	450 L/min	750 L/min	1000 L/min	1500 L/min	2000 L/min	3000 L/min
Protection grade	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Control voltage	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Electric connection	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz
Paper width	500 mm	1000 mm	1000mm	1000 mm	1000 mm	1500 mm	1500 mm
Filter area	0,4 m²	0,8 m²	1,4 m²	1,8 m²	2,4 m²	3,6 m²	5,5 m²

DRAWING:  
TM 240



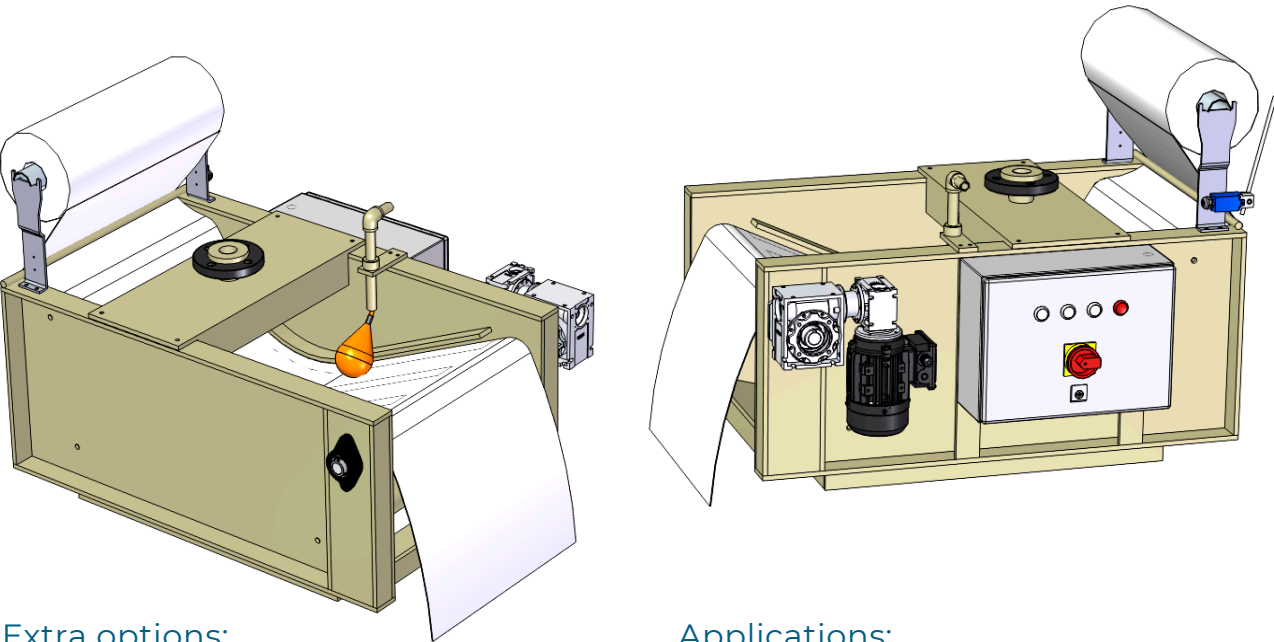
- ✓ **100% stainless steel construction**  
Produced with a stainless steel frame and cabinet and band conveyor.
- ✓ **Frequency-regulated conveyor**  
The frequency-regulated gear motor ensures gentle and slow movement of band conveyor which improves filtration significantly.
- ✓ **Level sensor**  
The level sensor ensures ensures precise use of the filter paper.
- ✓ **Heavy duty unit**  
This is our bandfilter designed for filtration of large volumes and heavy-duty contamination.
- ✓ **Unique construction**  
This bandfilter is designed with a conical deep-bed construction which makes it able to handle high volumes in a small area.
- ✓ **Analog control panel**  
The bandfilter has a simple control panel including alarm lamps to provide information about filter paper status etc.
- ✓ **Paper sensor**  
The bandfilter has a built-in sensor for low paper.
- ✓ **E - European machine directive**  
The bandfilter is produced in Denmark in accordance with the European machine directive.



# BANDFILTER TMP

It's developed for application with highly corrosive fluids like salt water and acids and is based on the TM design used for the stainless steel filters.

The bandfilter is made in polypropylene on all surfaces in contact with the fluid and is using filter paper for efficient filtration.



Extra options:

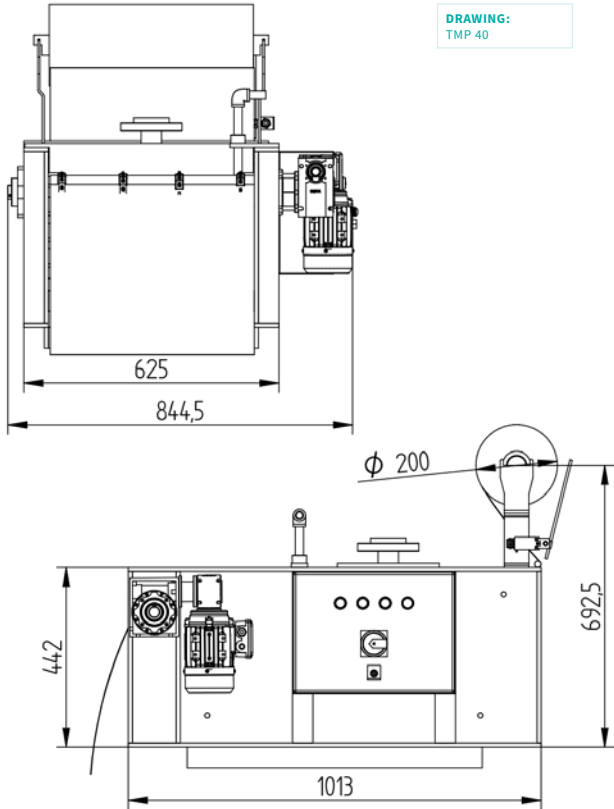
- Filter paper
- Stainless steel support frame
- Polypropylene containers
- Tank units

Applications:

- Salt water
- Highly corrosive substances
- Acids

MODEL	TMP 40	TMP 80	TMP 140	TMP 180	TMP 240	TMP 360	TMP 550
Flow capacity	216 L/min	450 L/min	750 L/min	1000 L/min	1500 L/min	2000 L/min	3000 L/min
Protection grade	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Control voltage	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Electric connection	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz
Paper width	500 mm	1000 mm	1000 mm	1000 mm	1000 mm	1500 mm	1500 mm
Filter area	0,4 m²	0,8 m²	1,4 m²	1,8 m²	2,4 m²	3,6 m²	5,5 m²

- ✓ **Polypropylene construction**  
Its designed for highly corrosive fluids and only a few parts like gear motor, filter paper holder and electrical cabinet are not polypropylene.
- ✓ **Frequency-regulated conveyer**  
The frequency-regulated gear motor ensures gentle and slow movement of band conveyor, which improves filtration significantly.
- ✓ **Level sensor**  
The level sensor ensures ensures precise use of the filter paper during filtration.
- ✓ **Unique construction**  
This bandfilter is designed with a conical deep-bed construction which makes it able to handle high volumes in a small area.
- ✓ **Analog control panel**  
The bandfilter has a simple control panel including alarm lamps to provide information about filter paper status etc.
- ✓ **Paper sensor**  
The bandfilter has a built-in sensor for low paper.
- ✓ **E - European machine directive**  
The bandfilter is produced in Denmark in accordance with the European machine directive.





# BANDFILTER TME

High quality endless bandfilter designed for large volumes and heavy-duty contamination, it is made for coarse filtration and is with an endless-band system which is consuming no filter paper.

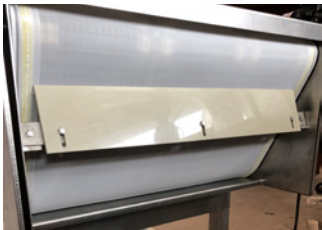
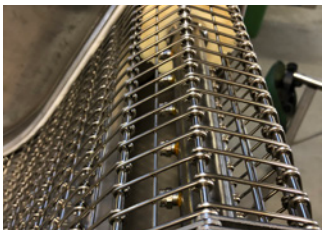


This means the bandfilter is not using filter paper for the filtration process, but instead an endless band which is cleaned by either using a brush or high pressure air.

Extra options:

- Stainless steel support frame
- Tank units
- Available in AISI 316

MODEL	TME 140	TME 180	TME 240	TME 360	TME 550
Flow capacity	500 ltr./min	1000 L/min	1500 L/min	2000 L/min	3000 L/min
Protection grade	IP54	IP54	IP54	IP54	IP54
Control voltage	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Electric connection	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz	3x400V + N + PE 50 Hz
Band width	1000 mm	1000 mm	1000 mm	1500 mm	1500 mm
Filter area	1,4 m²	1,8 m²	2,4 m²	3,6 m²	5,5 m²



- ✓ **Unique construction**  
This bandfilter is designed with a conical deep-bed construction which makes it able to handle high volumes in a small area.
- ✓ **Endless bandfilter**  
Its not using any form of filter paper which means there is no consumables during operation.
- ✓ **Self-cleaning**  
The bandfilter keeps cleaning the endless band with either brushes, high pressure air and/or liquid depending on application.
- ✓ **Level sensor**  
The level sensor ensures ensures precise use of the filter band during filtration.
- ✓ **100% stainless steel construction**  
Produced with a stainless steel frame and cabinet and band conveyor.
- ✓ **Heavy duty unit**  
This is our bandfilter designed for filtration of large volumes and heavy-duty contamination.
- ✓ **Analog control panel**  
The bandfilter is including a simple control panel including alarm lamps.
- ✓ **Designed for filtration**  
The bandfilter is able to filtrate process fluids down to 100 microns depending on fineness of the endless band.



# COMPACT BANDFILTER KF

Bandfilter for filtering most thin liquids. Our compact bandfilter which is developed for mounting on production equipment and CNC machines in the metal industry.

The compact bandfilter is supplied in stainless steel for filtering process liquid, emulsion and oil for solid particles and chips. The bandfilter is made in a simple and maintenance-free construction, and is easy to mount on existing equipment. It is delivered including a machine connection with a pump for sucking up the liquid from your container and the liquid runs back into the machine via the gravitational force.

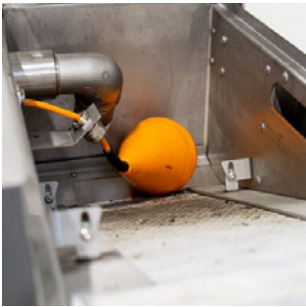
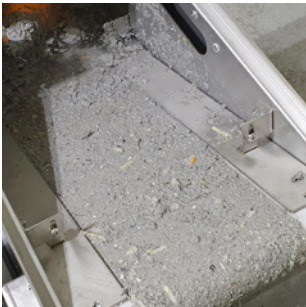
Therefore, the bandfilter must be placed either on top of your tank or on a stand next to it to ensure that the height of our bandfilter is above your edge of the tank. Supplied including electric control, level sensor, overflow duct and motor for automatic feed of the filter cloth.



Extra options:

- Can filter down to a particle size of 10 my
- Capacity up to 9 m³/h per unit
- 100% utilization of the filter medium
- Used filter media can be rolled up for easy disposal
- Filtered material is scraped off for easy disposal
- Filtered material is dried before scraping
- Parts that come into contact with the medium are made of acid-proof stainless steel
- Easy to clean
- Does not clog
- Fully automatic operation
- Large range of accessories

MODEL	KF 250	KF 500	KF 700
Flow capacity	50 L/min	100 L/min	150 L/min
Power connection	1x230V – / 400V – 50 Hz	1x230V – / 400V – 50 Hz	1x230V – / 400V – 50 Hz
Control current	24V	24V	24V
Degree of protection	IP54	IP54	IP54



- ✓ **Made of 100% stainless steel**  
Bandfilter produced with stainless steel cabinet, dirt tray and paper guide for industry.
- ✓ **Utilization of the entire paper**  
Bandfilter is designed with a focus on low operating costs and therefore we always utilize the entire filter cloth with the unique construction.
- ✓ **CE Machinery Directive**  
The bandfilter complies with the European Machinery Directive.

- ✓ **Hydrostatic bandfilter**  
The construction of the bandfilter is static which ensure efficient filtering of the process fluid and fixed low operating costs.
- ✓ **Automatic feeding of filter paper**  
Bandfilter comes with level sensor for automatic feed of filter paper as needed.
- ✓ **Overflow**  
Built-in overflow duct in the filter tray in case of possible overfilling of bandfilter.



# MAGNETIC SEPARATOR

Compact magnetic separator that is easy to integrate into existing equipment and can be used for mounting directly on a bandfilter.

This magnetic separator comes with a very powerful magnet and a large surface area which makes it extremely effective in removing the magnetic particles.

The magnet separator can be offered on request in a special edition that can be used for acid and corrosive liquids.

It comes standard in stainless steel including manifold for distribution of liquid and dirt tray ready for installation.

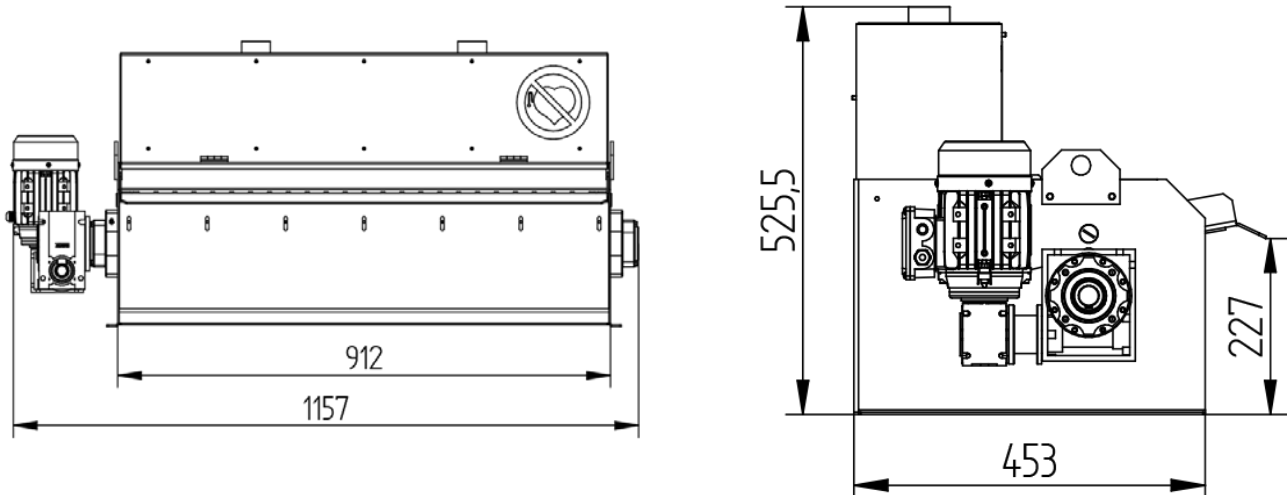
Applications:

- Lubricants
- Process fluids
- Oil
- Waste water treatment



MODEL	MS-100	MS-200	MS-300	MS-400	MS-500	MS-600	MS-700	MS-800
Coolant	100 L/min	200 L/min	300 L/min	400 L/min	500 L/min	600 L/min	700 L/min	800 L/min
Oil	80 L/min	160 L/min	240 L/min	320 L/min	400 L/min	480 L/min	560 L/min	640 L/min
Width	171 mm	276 mm	381 mm	486 mm	591 mm	696 mm	801 mm	906 mm
Weight	56 kg	71 kg	86 kg	102 kg	117 kg	133 kg	148 kg	163 kg

DRAWING:  
MS-800



- ✓ **Fluid manifold**  
Magnet separator has a manifold for even distribution of the liquid which ensures the best result.
- ✓ **Large magnetic surface**  
The design means that we have a large magnetic surface that improves filtration.
- ✓ **Stainless steel construction**  
The magnet separator is supplied in stainless steel which makes it unique and at the same time we can easily adapt it to work with acid.
- ✓ **CE - European machine directive**  
The magnetic separator is produced in Denmark in accordance with the European machine directive.



# FILTER HOUSING

We offer a wide-range of filter housings in stanless steel for both filterbags- and cartridges.

The filter housings are constructed following general industrial standards, and can be offered including filtration pumps. The main part of our filter housings are used in cleaning- and filtration systems for treating process fluids.



NO.	NAME	DESCRIPTION	MATERIAL	FILTER
1000066	Filco P04	Filter housing with manometer	AISI 304/316	Bag – Ø100×380 mm
1000067	Filco P01	Filter housing with manometer	AISI 304/316	Bag – Ø180×430 mm
1000068	Filco P02	Filter housing with manometer	AISI 304/316	Bag – Ø180×810 mm



- ✓

**100% stainless steel construction**  
Made in stainless steel and is being manufactured in both grade: 304 and 316.
- ✓

**Extra options**  
We offer a wide-range of extra options, like pumps differential pressure-meters, magnets etc.
- ✓

**CE - European machine directive**  
The filter housings are manufactured in accordance with the European machine directive.
- ✓

**Manometer**  
All filter housings can be delivered with manometers for measuring pressure inside the filter housing.
- ✓

**Industrial standards**  
The filter housings are produced in accordance with general industrial standards, which means filterbags- and cartridges are available worldwide.



# OIL SEPARATOR

Innovative high-quality oil separator constructed in stainless steel. The oil separator is designed with a two or four-chamber labyrinth system which ensures efficient separation of the oils.

This gives the process fluid optimal conditions for separation of the oils which are removed from the tank units using a highly-efficient suction head. This ensures that the process fluids are always free of unwanted oils which can affect operation and process fluid life-cycle.

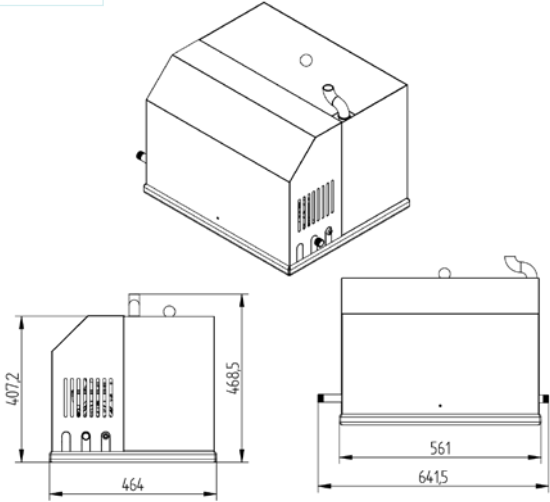


Applications:

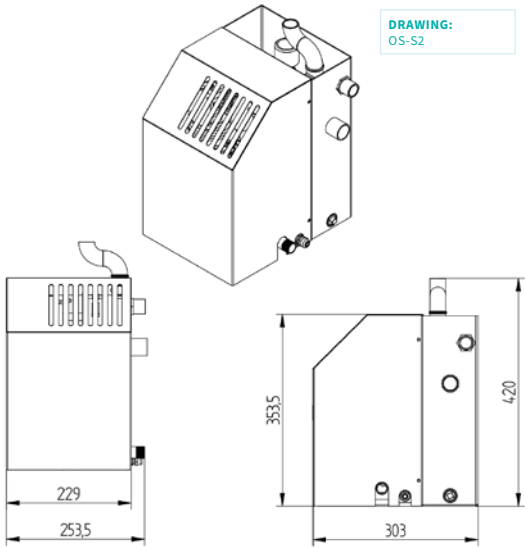
- Tank units from washing systems
- Machining centers
- Process fluid tanks
- Waste water treatment

MODEL	OS-S2	OS-Q2
Flow capacity	120 L/h	120 L/h
Separation chambers	2	4
Electrical connection	3x400V + PE 50 Hz	3x400V + PE 50 Hz
Length	305 mm	500 mm
Width	260 mm	600 mm
Height	400 mm	470 mm
Weight	7 kg	20 kg

DRAWING:  
OS-Q2



DRAWING:  
OS-S2



- ✓ **Continuous draining of surface oils**  
The oil separator ensures continuous draining of oils around-the-clock.
- ✓ **CE – European machine directive**  
The oil separator is manufactured according to the European machine directive.
- ✓ **Flexible solution**  
Compact and flexible solution which can be used stationary and as a mobile unit.
- ✓ **Unique piston pump**  
The specially developed piston pump with stainless steel housing ensures efficient flow.
- ✓ **Including suction head**  
The oil separator includes a suction head ready for installation into tank units where its floating at the surface creating suction that causes a natural flow to the suction head.
- ✓ **Chamber system**  
The oil separator has a two or four-chamber labyrinth system, which ensures efficient separation of oils.
- ✓ **Extends the lifecycle of process fluids**  
Efficient separation of oils extends the lifecycle of the process fluids and lowers costs.





# MASTERCLEAN

Reduce your operating costs significantly, extend the life of your tools and protect the environment with a central filtration system from us.

Our tailor-made central filtration systems for efficient filtration of lubricants and process fluids made at our factory in Denmark. Its available either as a part- or full flow system constructed in powerful stainless steel with bandfilter, oil separator, pumps, level control, automatic dosing and control panel.

This is a complete solution with user-friendly control including monitoring and alarms as well as the possibility of SMS warning and a wide range of extra options.

### Applications:

- Lubricants
- Waste water
- Process fluids
- Cleaning fluids
- Oil

### Extra options:

- Cooling units
- Magnetic separator
- Automatic dosing systems
- Snail conveyor for dirt
- Filter housings
- Filter paper
- Insulated tank unit



MODEL	MC 2000	MC 3000	MC 4500	MC 8000	MC 10000	MC 12000	MC 14000
Tank volume	2000 l	3000 l	4500 l	8000 l	10.000 l	12.000 l	14.000 l
Bandfilter	UF 1000	UF 1000	UF 1000	UF 2000	UF 2000	UF 2000	UF 2000
Oil separator	OS-Q2	OS-Q2	OS-Q2	OS-Q2	OS-Q2	OS-Q2	OS-Q2
Connection	3x400V-50 Hz	3x400V-50 Hz	3x400V-50 Hz	3x400V-50 Hz	3x400V-50 Hz	3x400V-50 Hz	3x400V-50 Hz
Labyrinth system	—	—	—	Yes	Yes	Yes	Yes



- ✓
**100% stainless steel construction**
The filtration systems are produced in stainless steel grade: AISI 304

✓
**Bandfilter**
A hydrostatic bandfilter used for filtration of contaminants, particles and chips from the lubricants is standard.

✓
**Reduce operation cost significantly**
A centralized filtration systems can reduce cost of up to 5.300 euro pr. year on each connected CNC-machine.

✓
**Oil separator**
Our innovative oil separator with four-chamber system is build into the filtration system.

✓
**Monitoring and control**
The centralized filtration systems is delivered with complete monitoring systems including alarms and possibility for SMS-service.
- ✓
**Higher overall efficiency**
The reduced manpower needed for maintaining the CNC-machines, and more production hours pr. machine improves efficiency in the whole production.

✓
**Made according to your needs**
The centralized filtration systems are always produced according to your specific needs as a customer.

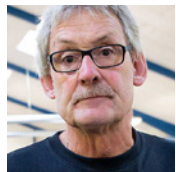
✓
**Effective continuous filtration**
The filtration systems ensures continuous filtering of the process fluids during production.

✓
**Automatic waterfilling**
The filtration system is automatically controlling the water level using a level sensor and magnetic valves.

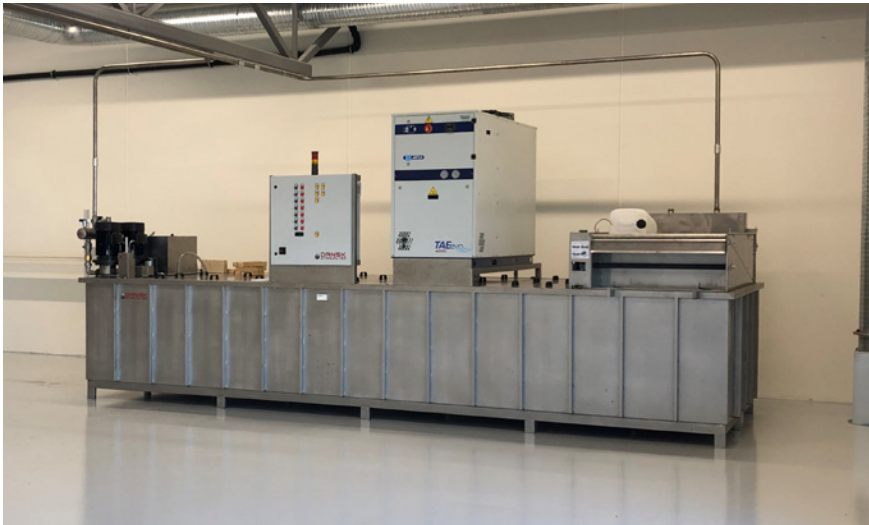


# MASTERCLEAN

Experience the Masterclean central filtration systems in the pictures below, where you can find two installations of the filtration system in operation at some of our many satisfied customers.



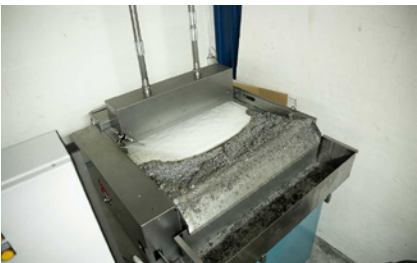
**ALSTED METAL**  
Per Alsted Christensen  
Owner



*The central filtration system for filtering the lubricant.*



*We provide you with a turnkey solution including installation work such as piping.*



*Hydrostatic bandfilter for filtering particles and metal chips from the lubricant.*



**BRANDT METAL INDUSTRY**  
Johnny Brandt  
Owner



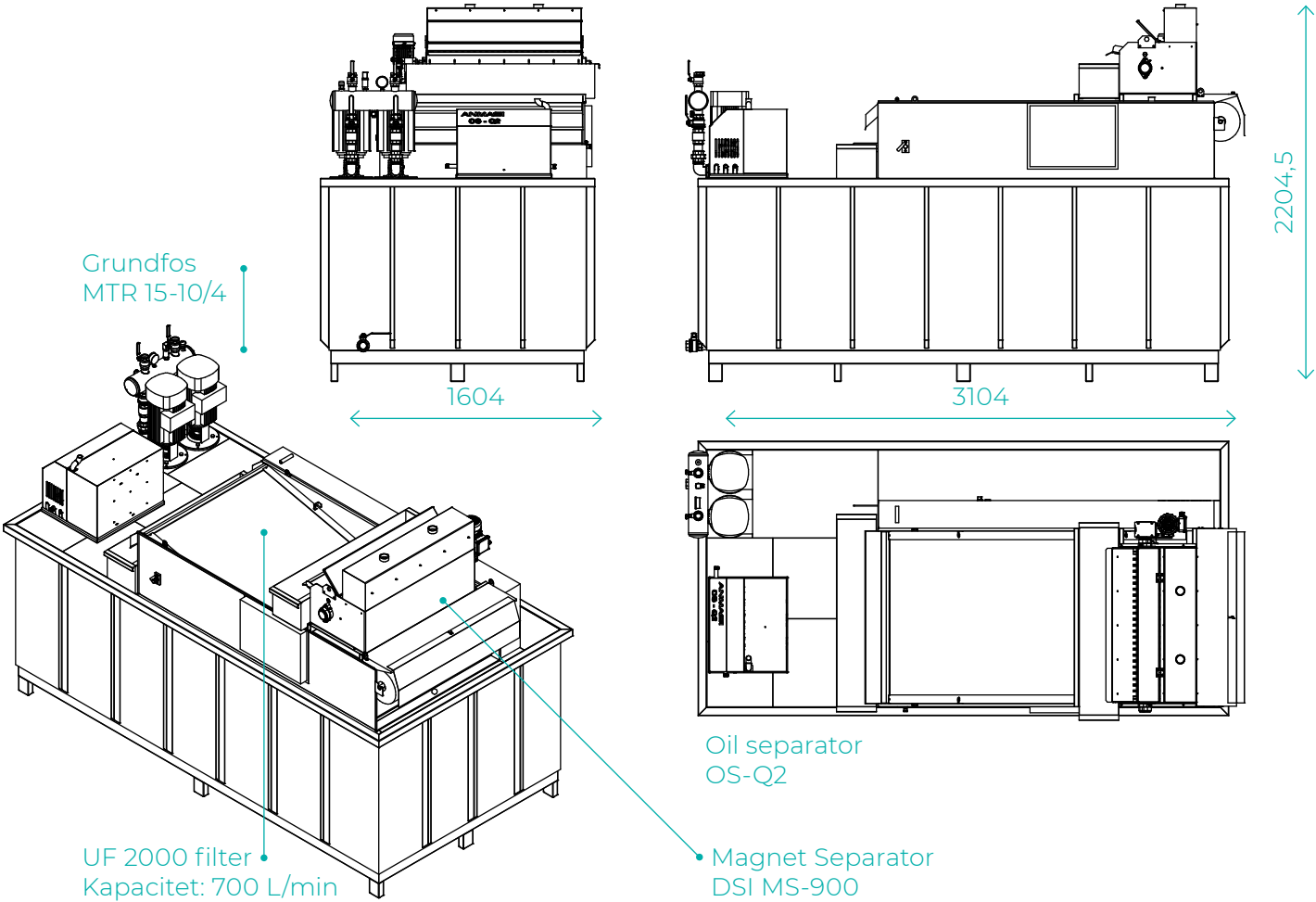
*The turning department at Brandt Metal Industry with the central filtration system.*



*The central filtration system for filtering the lubricant.*



*Picture of our high-end external machine connection for ensuring efficient exchange and filtering.*

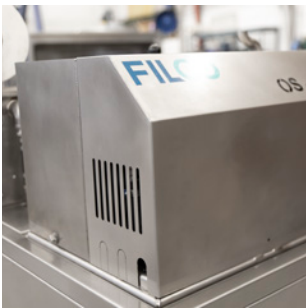
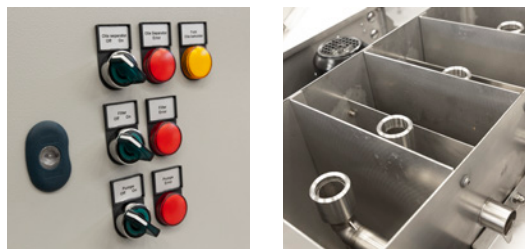




# MOBILE FILTER UNIT

Our Mobile Filter Unit can be easily moved to and between the individual machines in a production, as it is mobile and easy to connect and operate. With the Mobile Filter Unit we separate waste oil and particles from process fluids such as coolants and other fluids.

With our Mobile Filter Unit filtration goes easy, mobile and efficient. The Mobile Filter Unit consists of a compact filter, as well as an oil separator, which can filter both particles and oils from process fluids in one operation. The filter contains many of the functions included in a central system - united in a smaller and mobile version.



## Extra options:

- Filter down to a particle size of 10 microns
- Capacity up to 9 m<sup>3</sup> / h per unit
- 100% utilization of the filter medium
- Roll-up of used filter media, thereby easy to dispose of
- Filtered material is scraped off and is thus lightweight
- Filtered material is dried before scraping
- Parts that come in contact with the medium are made of acid-proof stainless steel

MODEL	MOBILE FILTER UNIT
Flow capacity	50 L/min
Separation chambers	4
Electrical connection	3x400V + N + PE – 50 Hz
Length	1080 mm
Width	685 mm
Height	1605 mm
Degree of protection	IP54
Control current	24V

## ✓ Filtration and separation made mobile

### ✓ CE – European machine directive

The Mobile Filter Unit is manufactured according to the European machine directive.

### ✓ Extended emulsion durability

Due to our efficient compact filter, we extend the durability of the emulsion, by removing unwanted particles.

### ✓ Plug and play

Easy to adjust and connect to different machines.

### ✓ Continuous draining of surface oils

The oil separator ensures continuous draining of oils around-the-clock.

### ✓ Extends the lifecycle of process fluids

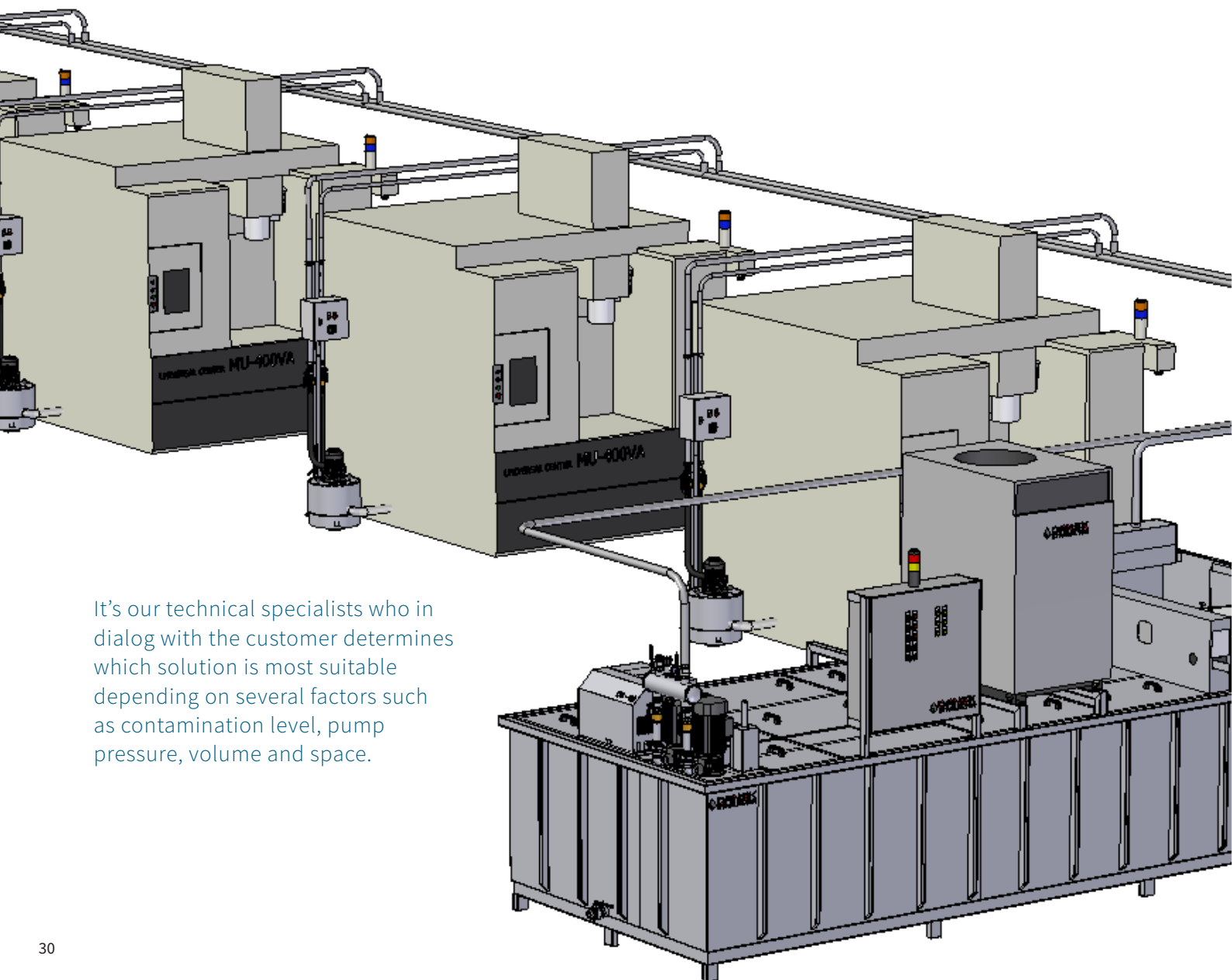
Efficient separation of oils and unwanted particles extends the lifecycle of the process fluids and lowers costs.



# MACHINE CONNECTIONS

Return stations are an essential part of the centralized filtration system, because why invest in a world class filtration system if you're not managing to transport all contaminants polluting the process fluid to the filtration system?

That's why its very important to consider the type of machine connection when installing a filtration system, because this part is just as important as the filtration system itself, and the installation must be carried out by trained professionals to avoid issues with the efficiency.



It's our technical specialists who in dialog with the customer determines which solution is most suitable depending on several factors such as contamination level, pump pressure, volume and space.

We manufacture and install two types of machine connections, which is used depending on customer application and economy. The first type is our high-end external connection with frequency-regulated pump, stainless steel self-cleaning return tank and level sensor.

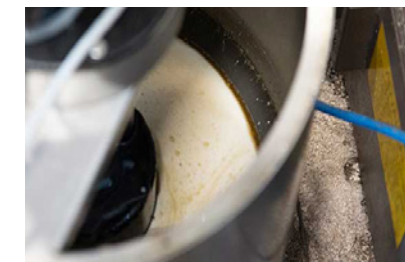
The second type is our economic integrated connection, which is placed in a small container directly inside the machine.



*This is our high-end external machine connection which is necessary for some applications like when your working with aluminum chips.*



*Integrated connection  
CNC-Machine*



*Integrated connection  
Cleaning system*

The machine connections are designed for our central filtration systems but can be easily implemented for other similar systems from other manufactures.

We have been doing this at several customers over the years for different reasons such as a change in the application.

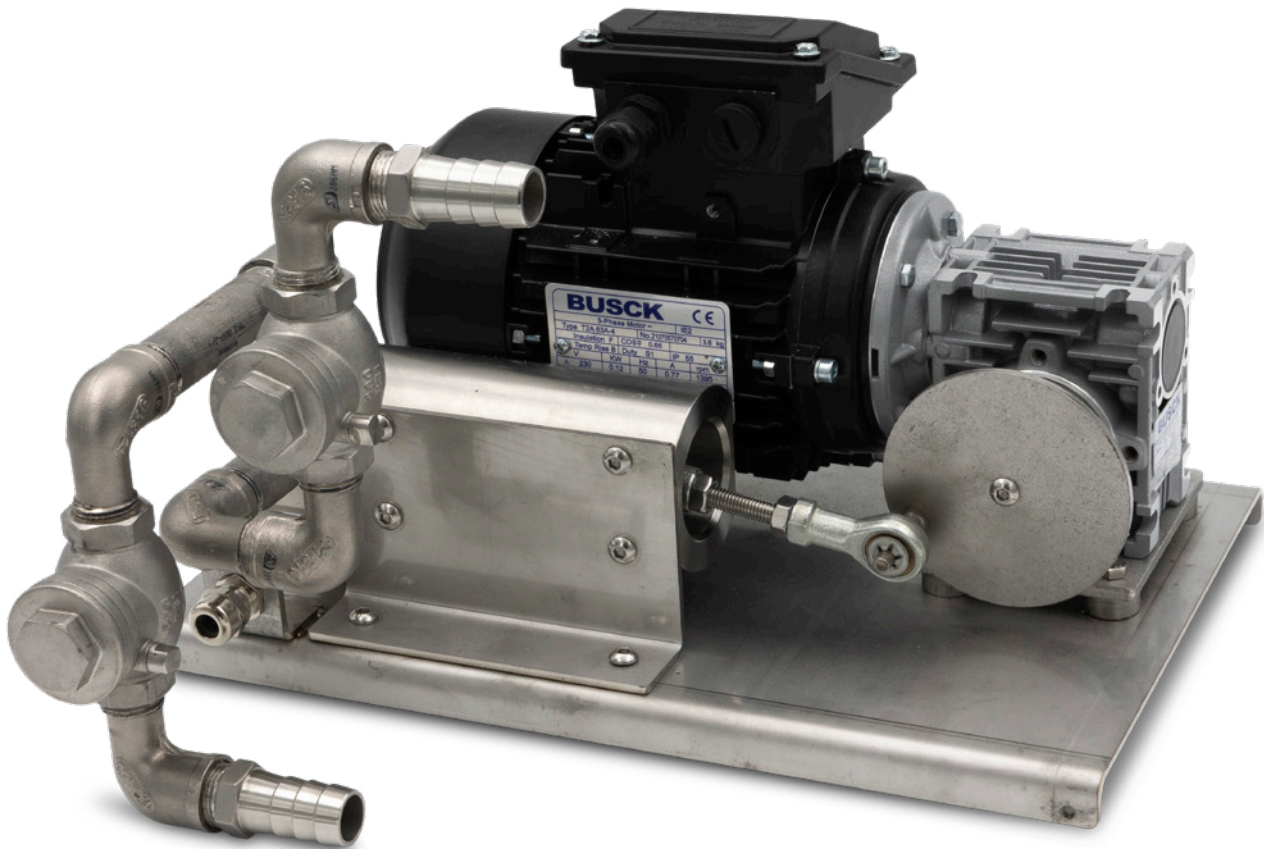




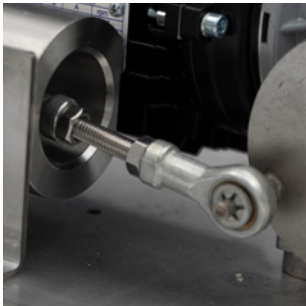
# PISTON PUMP

Our specially developed piston pump with stainless steel housing and gear motor ensures a gentle treatment of the fluids to ensure optimal separation of free oils.

The piston pump is self-priming and slow running, which means that the liquid is not whipped around. It can handle viscous and high-viscosity materials. The piston pump is capable of dry running and can maintain a vacuum under various conditions.



MODEL	SP2
Flow capacity	2 L/min
Electrical connection	1x230V / 3x400V – 50 Hz
Degree of protection	IP54

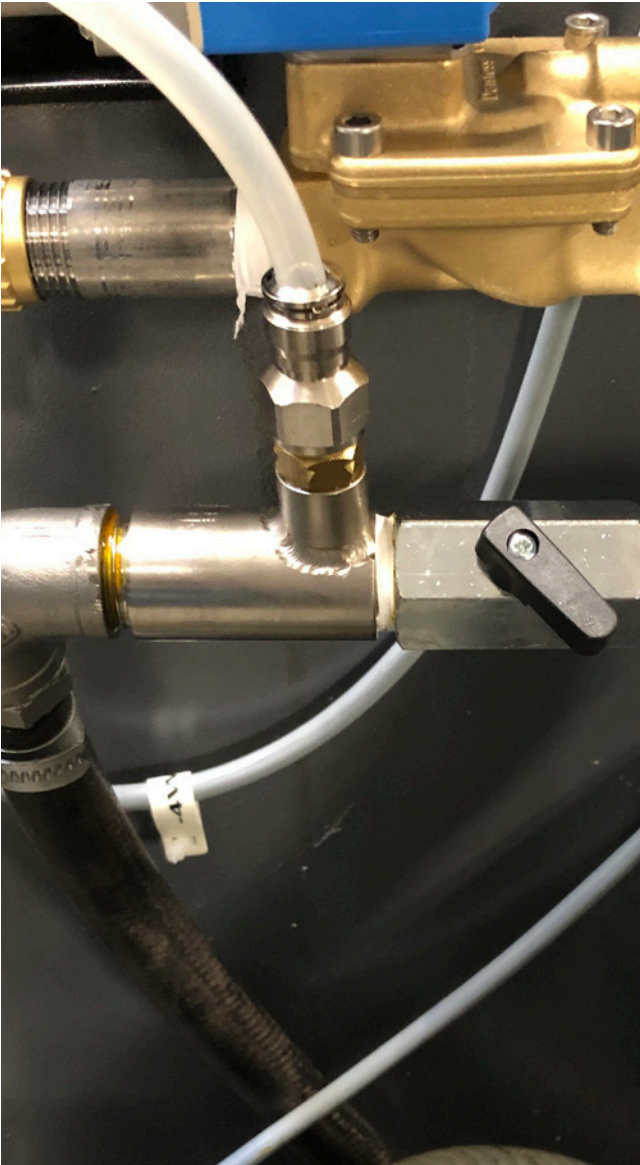


- ✓ **100% stainless steel construction**  
The piston pump is produced in stainless steel grade: AISI 304
- ✓ **CE Machinery Directive**  
The piston pump filter complies with the European Machinery Directive.
- ✓ **Unique piston pump**  
Our specially developed piston pump with stainless steel housing ensures efficient flow.
- ✓ **Self-priming**
- ✓ **Capable of dry running**



# COOLANT SAVER

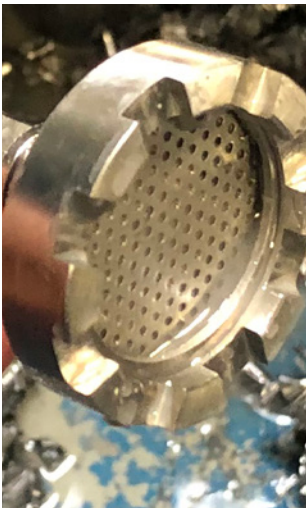
Our coolant saver is manufactured and developed for continuous removal of small quantities of fluids from containers and tanks. The coolant saver from Filco is mounted parallel to e.g. a machine's feed pump, so that the fluid feeds both the machine and the coolant saver. When the coolant passes through the coolant saver, a vacuum is created which can then suck up the liquid.



The coolant saver recycles oils and coolants and reduces waste:

- Capacity up to 20 liters per minute
- Parts that meet the medium are made of chemical-resistant materials
- Easy to clean
- Fully automatic operation
- Uses no power
- Simple and easy to install
- Inhibits bacterial growth

MODEL	AISI 304
Connection	1/2" pipe
Outlet	1/2" hose
Suction hose	8 mm PU hose
Length	139 mm
Height	120 mm
Width	30 mm



- ✓ **Effective suction**  
The injector ensures constant and reliable suction of liquids around the clock in production.
- ✓ **Flexible solution**  
Compact and flexible solution that can be easily installed in production

- ✓ **Made of 100% stainless steel**  
The injector is made of 100% stainless steel, with accessories in other materials.
- ✓ **User-friendly**  
Simple design that is easy to use and maintain in production.



# FILTER PAPER

We have a large stock of filter paper for direct delivery 24 hours a day. Thereby you will experience no challenges with downtime as a customer and have no need for a large internal stock.

All our paper types are offered in different types of material and size in a very high quality as our products are all produced by leading manufacturers at factories in Western Europe.

The filter paper we offer is designed for high flow and long lifecycle which ensures the lowest operating costs and the best degree of filtration.

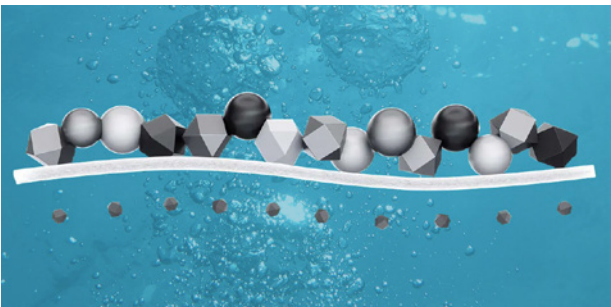
Below you can read about our different types of filter paper.



- ✓ **Always on stock**  
Filco always have a wide-range of our standard filter paper on stock.
- ✓ **High quality filter paper**  
We supply only the best filter paper, manufactured in reliable and sustainable materials.



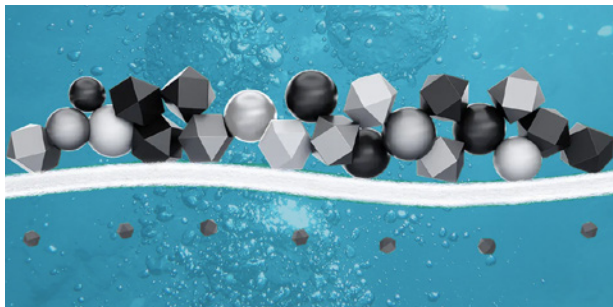
## EcoPF



Durable filter paper which is spunbonded and made with polyester fibers.

This product is available in thicknesses from 20 – 150 g/m² and is suitable for large particles and high flow.

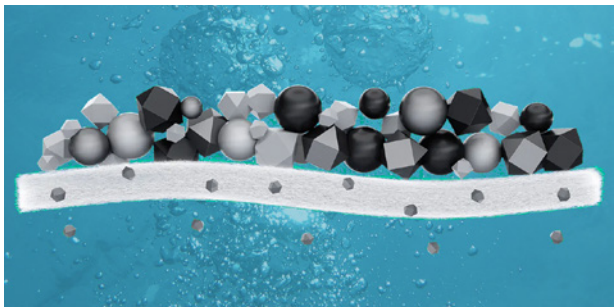
## EcoPP



Chemically bonded together in one direction. Its a filter paper with high pore volumes and several degrees of fineness. The product is not durable but has very good filtration properties compared with costs.

Available from 20 – 60 g/m² in thickness.

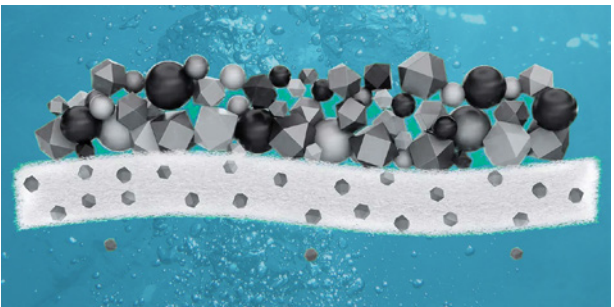
## UltraPM



Durable filter paper consisting of cross-linked polyester fibers which is needle punched and thermally bonded. Suitable for in-depth filtration and builds a good filter cake that ensures good filtration.

Available from 35 – 300 g/m² in thickness.

## UltraPJ



The best filter paper on the market where you as a customer will experience the highest performance in your filtration system. Incredibly durable filter paper consisting of hydroentangled polyester fibers mixed with microfibers. Experience the best in-depth filtration results with this type of filter paper which builds and maintains the best filter cake.

Available from 50 – 150 g/m² in thickness.



# CONTACT

## HEADQUARTER

### Filco A/S

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DK-8620, Kjellerup  
Denmark

Tel.: +45 8750 9899  
info@filco.dk  
www.filco.dk

Please contact us for more information about resellers worldwide. We have well-established sales agents all over Europe and partners in the United States, Russia, China and Canada

## PRODUCTION PLANTS

### Filco - Dansk Staalfilter Industri

Sjorslevvej 33  
DK-8620, Kjellerup

### Anmasi A/S

Thorsvej 240  
DK-7200, Grindsted

**CE** "Every machine supplied by Filco is produced in accordance with the CE – European Machine Directive"

Subject to changes and errors in the brochure.





With the  
environment  
in mind...

[filco.dk](http://filco.dk)

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