Crossflow Filtration Systems
Dealing with the highly sensitive and delicate cultural asset wine needs a great responsibility. Our goal is to treat your product as gentle as possible, to ensure its naturalness and quality.

Tradition oblige

Only from longstanding experience associated with openness to new ideas and passion quality grows.
Since 1975 employees of Romfil are dealing with the use of membranes. 1983 already this technology was tested for clarifying wine. 1988 the triumph of the Crossflow filtration started by the production of the first serial-filters. 1998 Romfil was founded among the vineyards of Wolfsheim.

In collaboration with customers and oenologists of renowned institutions worldwide we develop and improve our systems constantly. This culminates that Romfil Crossflow Filtration by now belongs to the most gentle filtration methods for wine at all.

"Economically, as well as sensory the purchase of our Romfil Crossflow filter was the best operationally decision for years."
“The Romfil Crossflow Filtration“

The liquid stream which flows parallel to the surface of a porous membrane prevents with the Crossflow Filtration (dynamic filtration) that the filter surface area gets blocked. This is optimized by a careful and efficient backflushing with filtrate during filtration.

A mixture of the product with so-called filter aids does no longer happen. Because of this time and money is saved. In addition, the filtration losses decrease when compared to conventional methods immensely.
Possible applications

ROMFIL Filter Systems are also used in other areas. Here are some examples:

- Process water
- Destillates
- Iced tea
- Vinegar
- Stream water
- Fruit juice
- Fruit wine
- Met
- Mineral water
- Pharmaceutical products
- Liquors (cognac)
- Sweetener solutions
- Drinking water

The material

Our filters are subject to stringent restrictions and quality requirements. Already in production we pay attention to absolutely clean work. We only use high quality stainless steel and raw material for the production of our plants. Also the modules used by us have been specially developed and manufactured for our purposes. All this will guarantee safety and a reliable, efficient operation with our filters.

Benefits for your product

Due to the consistent further development of the Crossflow technique we are able to provide our most gentle Crossflow filtration so far.

CO₂ Protection
- Through optimal inflow of the tubes and modules as well as the special design of the connecting adapter virtually no CO₂ is removed from the wine. Its natural concentration remains practically constant.

No temperature increase
- Through the combination of frequency-controlled feed pumps and recirculating pumps at low speed, we avoid the entry of unnecessary energy.

Minimal residual amount
- The particularly elaborated design of our filters allows a minimum residual amount and almost waste-free operation. Thus you will nearly not lose a valuable product.

No loss of color or flavor
- A specially developed membrane-fiber for wine in our modules ensures that the natural color and flavor in the wine is not damaged or removed.

Stability / fermentation
- The ROMFIL Crossflow Filtration ensures an early microbiological stabilization. Once filtered, no secondary fermentation takes place with proper storage.

Your benefits

Through the close collaboration with our customers worldwide, we can access with a very large and versatile experience capability. A continuous perfecting of systems and processes is the result of this cooperation.

Not a second time
- With our filtration technology one filtration is completely sufficient to ensure a perfect result. There is no pre-treatment necessary. Further filter aids are not required. One pass suffices.

No additional staff
- Due to the widely automated process, you save personnel costs.

Hardly monitoring
- You only need a minimal staff monitoring, thanks to our sophisticated safety devices.

Final filter
- With our filters, you also achieve a significant extension of the standing time of the final filter.

No waste disposal costs
- The disposal of filter materials and filter aids is no longer required.
The advantages of our filters

Easy operation

Thanks to simplest operation via a touch-sensitive screen, which is intuitive to use, you save time and money. Individual scopes for design and clearness ease the handling of your filter.

Safety

Our safety devices are designed that you can use your filter preferably barrier-free and without unnecessary loss of product. Through well conceived valve shut-off concepts, whether automatically or manually controlled, as well as probes and warning signals, we achieve maximum user comfort with practice-oriented safety.

High processing quality

Thanks to high standards from our suppliers and their materials, but also to our own work, we are able to provide you a nearly perfect product. We only use high quality materials which are processed in our own production with devotion and utmost precision, to give you the safety you need every day.

Compact design

Thank to the sophisticated compact design our filters are space-saving and readily mobile. Our filters fit also in the smallest cellar. Your work space can be optimally used and the filters will not disturb you at your daily operations in the cellar.

Sound level

The smooth running of our filtration equipment is exemplary. In filtration mode, the noise is below 60 dB (A). You don’t need a noise protection as operator by handling with our filters. This also enables the night operation. Also a breathing protection, such as when dealing with dusty filter media (e. g. diatomaceous earth), is here not required.

Ergonomics

Our filters are designed that all connections are on one side. This saves time and labor by installing the hoses and guarantees a hose course in order.

Economics

Through advanced pump technology and conceived design we achieve a very low power consumption, which minimizes your energy costs.

Intelligent cleaning

Our filters clean itself during filtration, by backwashing with the product. If required, the system can also be flushed with water, without that it is getting in contact with the product.
Oncoming flow

Through our specially optimized piping design, the wine is best spared. Turbulences which affect the CO₂ concentration negatively will be minimized and the filtration process remains largely stress-free for the wine.

Visual inspection

Through the transparent bows and module housings you can always control your product also optically. Additionally the membrane integrity can be monitored. With the aid of an integrity test, any damages can be localized exactly. Through the transparent filtrate side of the modules you can watch the cleaning reaction.

Temperature

Thanks to sophisticated pump technology, the required power is optimally exploited and not delivered to your product. This ensures that there is virtually no heating treatment of your product.

Complete emptying

Our filters are designed to drain completely on a level surface and the residual amount remains very small, for example 2.5 liters at our smallest filter. The residual amounts can be absorbed completely and reused. The emptying of lees- and clear-side allows an optimal separation of the lots.

Filtration dynamics

The adjustable filtration dynamic allows you to adjust our filters individually to your product. So you can find a balance between conservation and power, especially with wines which are difficult to filter.

Mobility

Our filtration systems are mounted on very rugged wheels. The weight of the plant is kept as low as possible to allow rapid movements of the filter and to give you maximum flexibility.

Maintainability

The pumps are installed so that a change of mechanical seals or bearings is particularly simple and can be done quickly. By this you save time and money.

Detergents

Through the intelligent self-cleaning of the filter during the filtration operation, the requirement of detergents is extremely low. Only for very dirty filters or long-term preservations detergents specially customized for your system need to be used. This provides maximum cleaning power at special protection of investment and modules.
Options

You as customer can choose from numerous prepared equipment options. Thus, you can furnish your filter as you need it for your operation. Here we present a selection.

**SMS option:**

With this option you will receive a notification (SMS) message with the status of the filter on a previously adjusted mobile phone.

**Option Vario:**

With this option, your filter decreeds of a controller for an external supply pump. Thus you have the ability to operate the filter either directly from the tank or through a supply pump. Hereby, the semi-automatic filter is fit with a 5.7” color touch panel to ensure a simple and quick operation.

**Optional module shutdown:**

In order to achieve a very low residual amount or for filtration of small quantities we offer this option. Thereby you can reduce the number of modules manually or automatically (depending on filter model).

**Turbidity monitor option:**

Additional safety offers a turbidity monitor. It continuously measures the turbidity of the filtered product and switches off automatically, if the filter exceeds a preset limit.

**Option automatic detergent dosage:**

This greatly simplifies the purification. The system adopts the automatic dispensing of detergent in our fully automated filter and cleans the filter independent in connection with an automatic tank cleaning (CIP).

**Option fork lift pockets:**

Upon request, below the filter two forklift pockets are mounted to facilitate the safe transport of the filter with the help of a forklift.

**Tank management option:**

With our fully automated filters, you can connect several tanks to the filter by using our tank management. The filter works independently from tank to tank. Annoying shifting and connecting of the hoses is not longer required.
Automatisation and Customization

As per your requirement, in connection with the given options various degrees of automation are selectable, depending on the current filter.

Each of our filtration systems is unique. Our systems are built according to individual customer requirements on a basis system. This ensures that you get exactly what you need. Gladly we fulfill special requests. At this are almost no limits, so far your requirements will not affect the quality of the system negatively.

Benefit from our experience! From the integration of the filter into existing systems, up to full customization of your system, we advise you gladly.

Service

Reliable and professional service and perfect attendance are important to us.

You have a wish? We respond immediately.

At our company you always reach the right person. We do not use call centers and telephone operators, which holds you back with unnecessary questions and waste your time.

We have all the required wearing and spare parts in stock and can act very quickly when needed. This increases your operational safety and makes us flexible for you.

With a purchase you will have a detailed instruction for your system. Questions will be answered on the spot and implemented immediately.

You will receive a detailed documentation of your system, including instructions and problem solutions.

Test us and our equipment!
We are glad to provide a demonstration filter, so you can convince yourself calmly of the power and the advantages of our systems.
Premium workmanship, quality and a perfect service from a single source

Made in Germany

That means for us:
projecting
planning
designing
programming
and production of your system in Germany.

With ROMFIL products you are on the safe side of filtration:
In Germany developed technology, based on decades of experience, designed according to relevant regulations made by professionals and with the safety, to rely on a competent contact partner for delivery, service and customer service.
From Wolfsheim to the world

 Angola  Czech Republic  Japan  Slovenia
 Argentina  France  Kosovo  South Africa
 Armenia  Germany  Macedonia  Spain
 Australia  Great Britain  Moldawia  Switzerland
 Austria  Ghana  New Zeeland  Turkey
 Brasil  Hungary  Portugal  Ukraine
 Canada  Italy  Russia  USA
 Chile  India  Serbia
 Croatia  Israel  Slovakia
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