



Tetra Pak® Services

Membrane filtration solutions.

 **Tetra Pak®**
PROTECTS WHAT'S GOOD

Offer

Tetra Pak is known as a leading supplier of membrane filtration solutions to the global dairy and food industries.



What we offer.

Complete portfolio

We offer a complete portfolio of membrane filtration technologies, including spiral-wound, ceramic, and plate & frame, and can supply everything from stand-alone units to end-to-end solutions.

Innovation

Our experts have decades of experience in membrane filtration and are focused on constantly developing new applications of separation technologies and pushing the performance of processes.

Sustainable technology

We continually work to develop new, innovative solutions that meet our customers' needs for high environmental performance coupled with respect for nature and for people.

Applications

We offer an unmatched range of membrane filtration solutions for selecting and tailoring valuable milk, whey, and plantbased components, which add value to customers' products and optimize their processing economy. Water is an important part of any food production.

Our water recovery solutions help ensure our customers' businesses against water issues and create a more sustainable company profile.

After-sales service

A fundamental part of our business is to provide easy access for our customers to expert knowledge, new insight, profitable solutions, as well as a wide range of replacement membranes and maintenance services.

A team of experienced service technicians ensure smooth running operation on site, assisting customers with membrane replacement, operator training, plant performance, plant audits, and optimization.



After sales service.

We offer a very wide range of polymer and ceramic membranes from all leading manufacturers.

Always 10,000 membranes in stock

Due to our high level of activity and large-scale membrane purchase we are able to offer extremely favourable prices and outstanding logistics to all our customers.

We offer a very wide range of polymer and ceramic membranes from all leading manufacturers:

- Alfa Laval
- Dupont
- Suez
- Hydranautics
- Koch
- Pall Exekia
- Parker
- Synder Filtration

... and others

Accessibility is key

Tetra Pak Filtration Solutions is known as a leading supplier of membrane filtration technology to the global dairy industry, offering a very broad range of polymer and ceramic membranes.

Unmatched logistics

Our delivery time is ultra-short. In fact, most membrane types are kept in stock and are often dispatched the day they are ordered.

At your service – everywhere

- Supply and replacement of membranes from our own stock: spiral-wound, ceramic, hollow fibre/tubular, plate & frame
- Supply of Tetra Pak's Membrane Installation Tool/MIT
- Test and application technology for new products
- Upgrades to existing filtration systems for higher sustainability
- Rental pilot plants
- Membrane filtration experts
- Local support from Tetra Pak companies all over the world
- Local service engineers
- Extensive membrane filtration knowledge base
- Plant audits and optimization
- Identification of issues such as system performance, membrane performance, and automation

Membrane installation tool.

Easy loading of spiral-wound
membranes.





Application

Do you always need an extra hand with membrane installation? Tetra Pak's easy-to-use tool supports the membrane elements and ensures that they are aligned correctly with seals: the anti-scoping device (ATD) or the energy-saving ATD (ESA).

Highlights

- Improved work environment for employees responsible for maintaining your filtration system
- Substantial time savings, as the installation can be carried out correctly the first time
- The tool is easy to adapt to different makes of membrane housings.

Spiral-wound membrane leak detection kit.

Application

Tetra Pak® Membrane Scope is a first-of-its-kind diagnostic tool that provides visual confirmation as to the source of poor permeate quality/product loss in UF, NF, and RO spiral-wound dairy filtration systems.

Highlights

- Greatly reduces diagnostic time
- May be deployed in UF, NF, and RO systems
- Clear, visual results (recordable in both video and photo format)
- Performed during production mode
- Safe/easy operation

Working principle

The scope utilizes a waterproof recording video inspection camera and a 20-meter-long probe to visually identify the source of failure.





NOTICE



Performance assessment.

Membrane filtration systems.

**Valuable service for customers
with a system performance focus**

Our performance assessment provides you with a clear view on how to optimize and increase the throughput of your membrane filtration system. Our specialists in UF, NF, MF and RO systems will thoroughly review and analyze your filtration system.

Benefits

- Gain insight on system performance
- Advice on improvement areas and actions
- Optimized maintenance routines
- Higher utilisation and increased profitability

The performance assessment
is conducted in three steps:

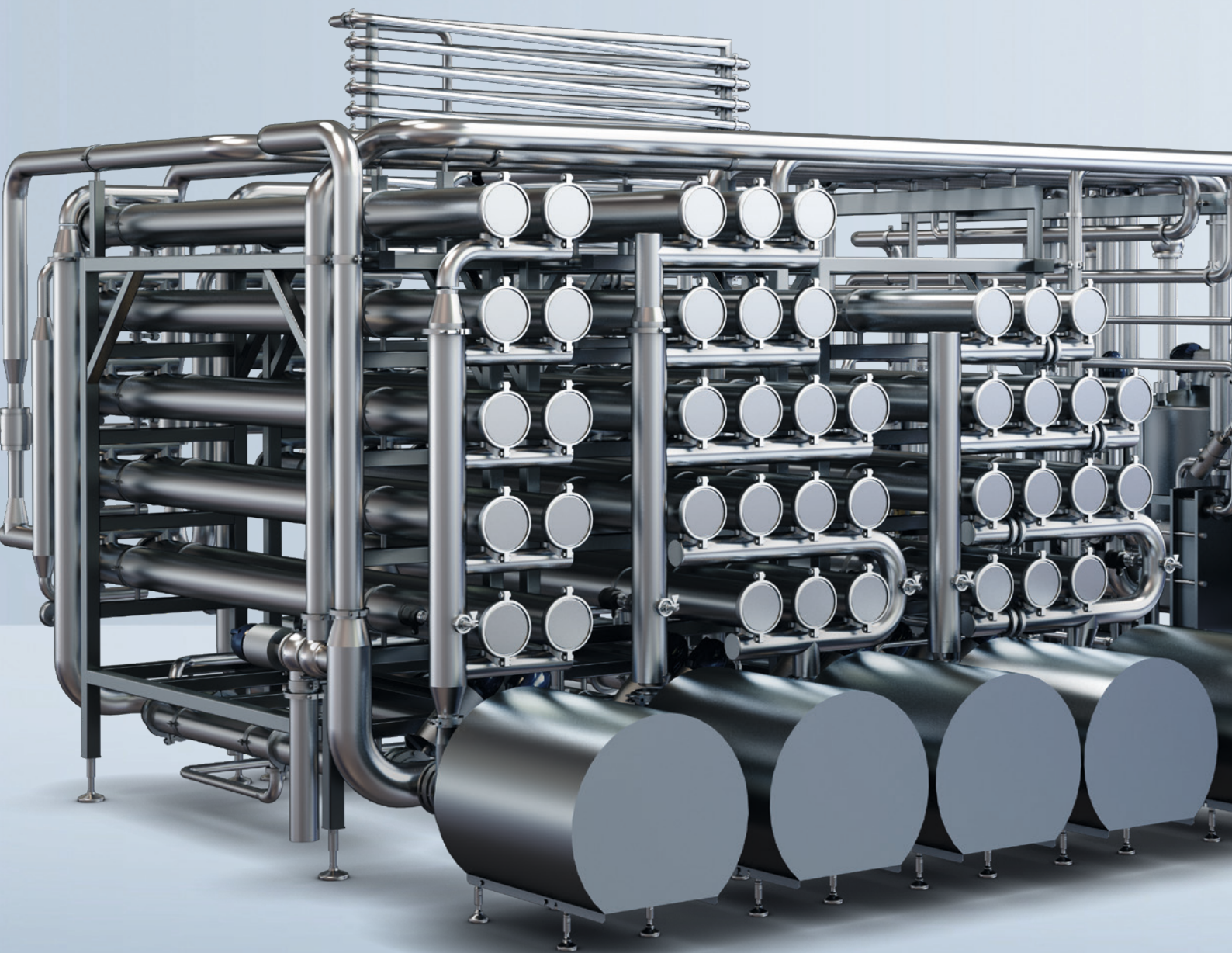
1. Data collection

2. On-site assessment

- General plant/line inspection and check
 - Production efficiency
 - CIP
-

3. Assessment report

Performance



Water recovery and savings assessment.

Sustainable food production

Do you need a safer and sustainable water supply for your dairy or food production? Tetra Pak's Water Competence Center can help you recover the water in raw materials and in the various production steps and use it again, benefitting both your bottom line and the environment.

Significant potential

Water can be part of various side streams in food production.

Significant volumes of side streams with high amounts of water can come from:

- Evaporators
- Concentration of liquid products
- Washing and rinsing of products
- Cleaning
- Improper design of water treatment solutions
- Existing practices and general handling of water



Expert assessment

An assessment will be tailored to your specific needs and include most of the following topics:

- Initial screening on site and alignment on current situation and issues
- Assessment of existing practices and available materials
- On-site assessment
- Alignment with local legislation
- Suggestions for improvements
- Testing of relevant applications

CIP recovery

Cleaning of processing equipment requires large volumes of lye. After a CIP (cleaning in place), the lye contains dissolved and suspended matter, making it unsuitable for direct use in a new CIP sequence.

As an alternative to dumping large quantities of spent lye, Tetra Pak has developed a separation method which regenerates 70% to 90% of spent lye.

An aerial photograph showing a two-lane asphalt road that curves through a dense, lush green forest. The road runs parallel to a calm, light blue lake. The forest is composed of many tall, thin evergreen trees. The lighting is bright, suggesting a sunny day. The word "Notes." is overlaid in white text in the upper left quadrant of the image.

Notes.

