



Tetra Pak® Service

# 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.

## **Efficient technology**

We continually work to develop new, innovative solutions that meet our customers' needs for high 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 as well as alternative proteins, which add value to our 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 efficient and cost-effective production.

## **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 service.

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



# Service.

We offer a 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 favourable prices and outstanding logistics to all our customers.

We offer a 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 is a leading supplier of membrane filtration technology to the global dairy industry, offering a very broad range of polymer and ceramic membranes.

### **Unmatched logistics**

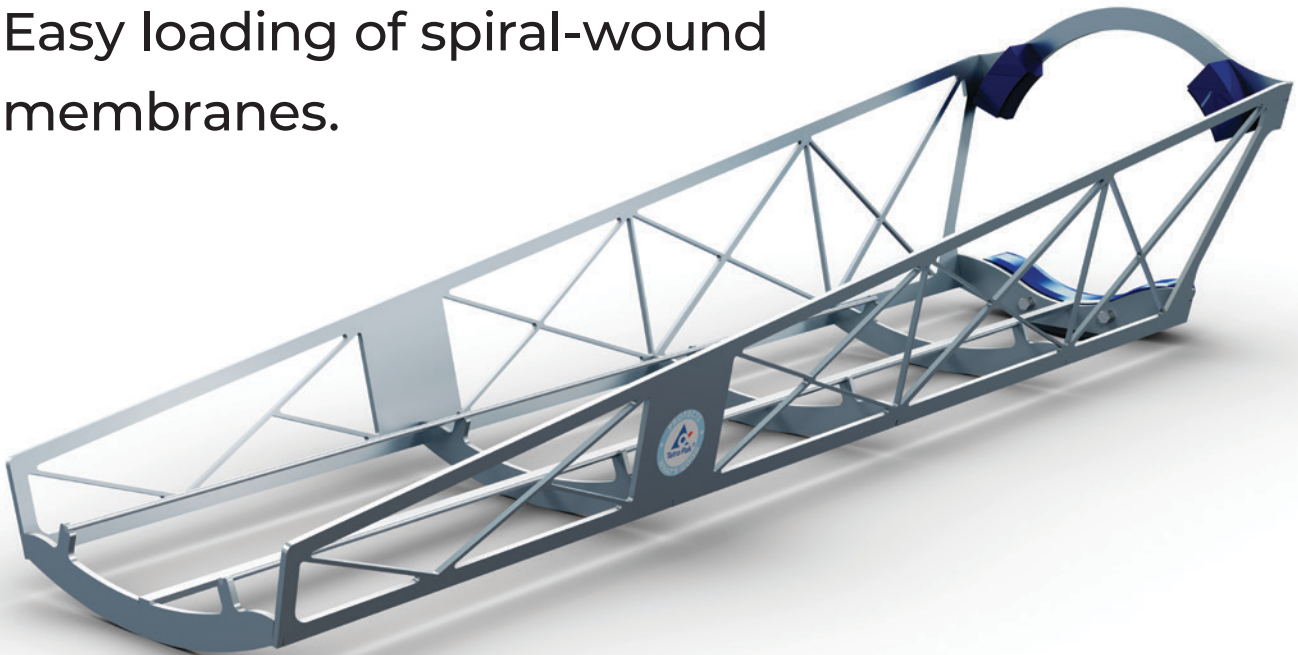
Our delivery time is ultra-short. In fact, most membrane types are kept in stock and are often dispatched the day they are ordered.

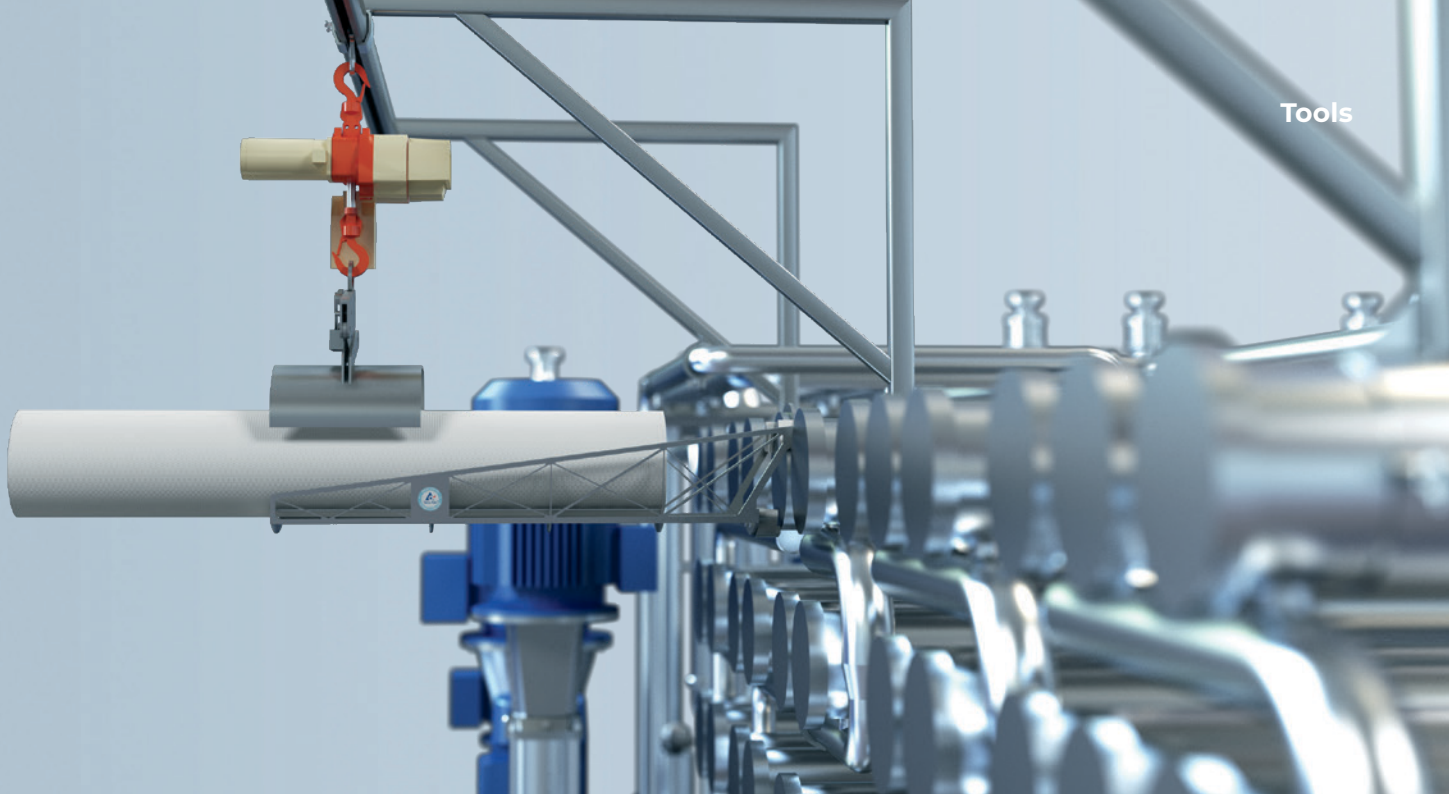
### **At your service – everywhere**

- Supply and replacement of membranes from our own stock: spiral-wound, ceramic, plate & frame
- Supply of Tetra Pak's Membrane Installation Tool
- Supply of Tetra Pak's Membrane Lifting System
- 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 lifting system and installation tool.

Easy loading of spiral-wound  
membranes.





### Application

The certified membrane lifting system improves the working environment significantly for employees who install and replace membranes. The system is easy to install on 8" membrane housings. The system is designed to install and replace wet as well as dry membranes with a max. weight of 16 kg/35 pounds. Tetra Pak's easy-to-use Membrane Installation Tool supports the membranes and ensures that they are aligned correctly with seals: the anti-scoping device (ATD) or the energy-saving ATD (ESA).

### Highlights

- Certified for and easy to install on membrane filtration systems
- Substantial time savings, as membrane installation and replacements are carried out fast and easy
- Reduces physical workload on employees
- One lifting system can be used for more than one filtration system
- The system 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
- Can 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.







# 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**

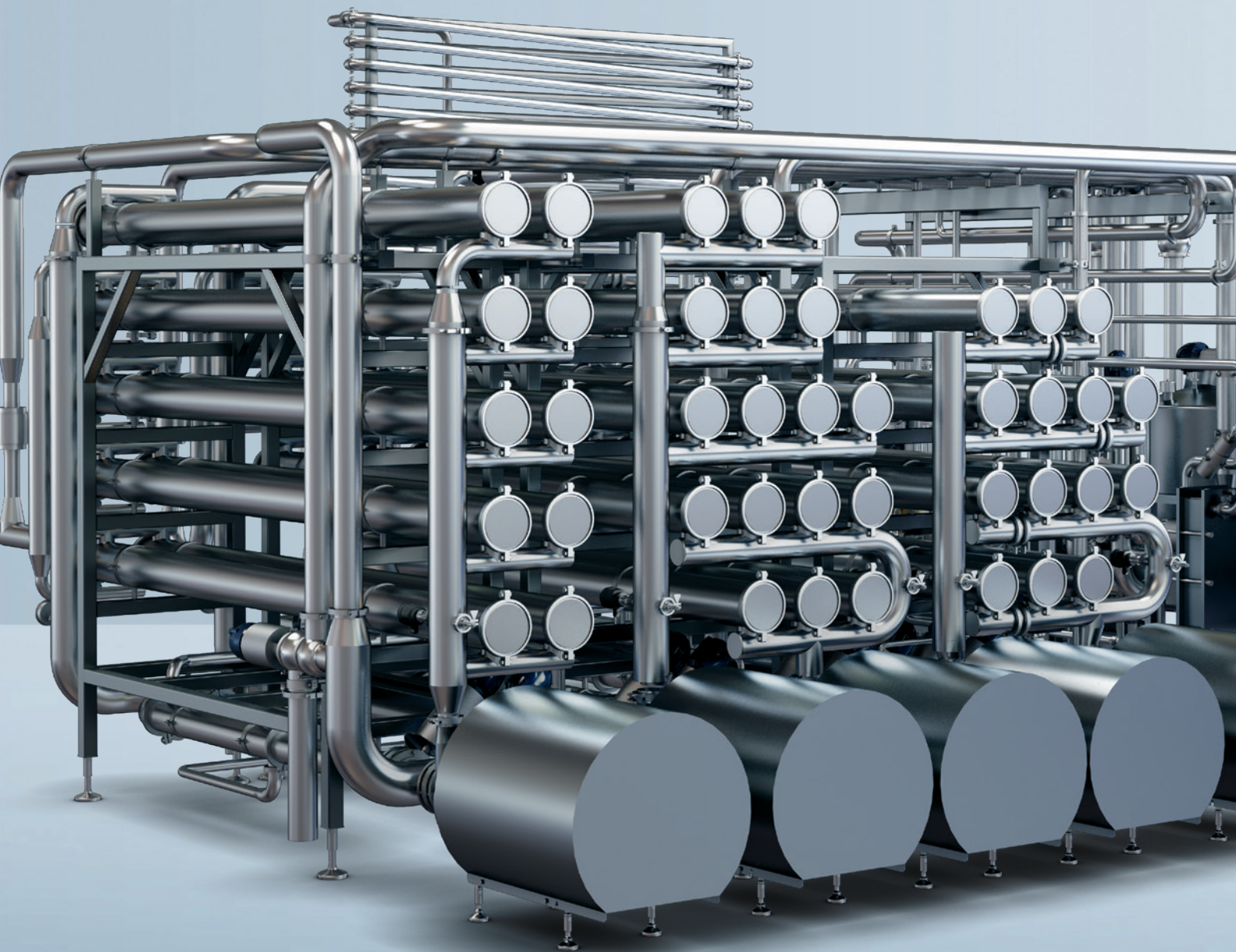
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**2. On-site assessment**

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

**3. Assessment report**

Performance



# Water recovery and savings assessment.

## **Efficient food production**

Do you need a safer water supply for your dairy or food production? Tetra Pak 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

### **Caustic recovery**

Cleaning of processing equipment requires large volumes of caustic. After a CIP (cleaning in place), the caustic 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 caustic, Tetra Pak has developed a separation method which regenerates up to 90% of spent caustic.

An aerial photograph showing a two-lane asphalt road with yellow center and edge lines. The road curves through a dense, lush green forest of evergreen trees. To the right of the road, the forest meets a calm, light blue lake. The shoreline is rocky and sparsely vegetated. The overall scene is serene and natural.

**Notes.**



A series of 18 horizontal dotted lines for writing, arranged in a vertical column on the right side of the page.

