



# CUTTING-EDGE MEMBRANE FILTRATION

TETRA PAK FILTRATION SOLUTIONS







Membrane filtration solutions

# CONSTANTLY PUSHING PERFORMANCE

Tetra Pak Filtration Solutions is a world-leading hub for liquid separation solutions to the global food industry. We offer an unmatched range of filtration solutions for value-added dairy and plant-based products and optimized process economy. Cooperating with customers, universities, and other business partners, we constantly push the performance of our solutions.

## COMPLETE PORTFOLIO

Tetra Pak is known as a leading supplier of membrane filtration solutions to the global dairy and food industries. Our membrane filtration systems operate efficiently in a great number of processing plants throughout the world.

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 complete processing facilities.

We always put together the best possible team to service our customers. Our expert staff is 100 % dedicated to finding the optimum solutions that create maximum value and the greatest competitive advantage for our customers.

## 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.

Through our commitment to understanding customer needs and to innovation, we help our customers adding value to their business.

## 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.

With a strong commitment to developing and implementing environmentally sound processing solutions, Tetra Pak is the ideal partner for customers focusing on sustainable use of natural resources and reduction of the environmental impact of their production facilities.

## APPLICATIONS

We offer an unmatched range of membrane filtration solutions for selecting and tailoring valuable milk, whey, and plant-based components, which add value to customers' products and optimize their processing economy.

Water is an important part of any food production. Accessibility to water and local legislative requirements can influence customers' day-to-day business. Our water recovery solutions help ensure our customers' businesses against water issues and create a more sustainable company profile.

The potential applications of membrane filtration are thus virtually unlimited, for instance:

- Concentration of milk for white cheese and fermented products for higher yield and more flexible production
- Concentration, demineralization, and fractionation of whey and milk for high-value milk and whey-based ingredients such as MPC, MPI, WPC, and WPI
- Tetra Pak Bactocatch solution for bacteria and spore removal from milk for extended shelf life
- Bacteria and spore removal from cheese milk and whey for better cheese and powder quality as well as reduced product loss
- Protein and casein standardization for cheese milk, milk powder, liquid milk, and yoghurt for maximized utilization of cheese making equipment and increased yield
- Lactose reduced/free dairy products with taste, sweet-

ness, and composition very similar to natural milk

- Standardization, concentration, protein fractionation, and clarification of plant-based products within grains, nuts, seeds, rice, soya and other legumes, as well as juices
- Reduction of bitterness in plant-based proteins
- White water recovery
- Recovery of evaporator condensate
- Polishing of permeates for reuse
- Assessments and solutions for water recovery and water savings.

## TESTING TOGETHER WITH CUSTOMERS

Testing is carried out in Tetra Pak Filtration Solutions' test center in Aarhus, Denmark, or in one of Tetra Pak's other test centers around the world – as well as together with customers at their sites, using Tetra Pak's rental pilot plants.

Our test centers include lab scale units and pilot plants. Test and development can be carried out on all types of filtration systems; spiral-wound, plate & frame, ceramic, and tubular systems. Almost any application can be tested.

We can help you develop new products, make product samples to be used in consumer tests, and test altered process parameters on existing filtration systems.

With our experience in running tests together with customers, we use the results to precisely dimension efficient full-scale solutions.

The pilot plants can be rented and are also sold as stand-alone solutions, as they can produce products just as large-scale membrane filtration systems.

## 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.

Our unique 24/7 hotline team serves customers all over the world; in addition, Tetra Pak's local network ensures closeness to customers in most parts of the world.

Working closely together, we ensure the best customer experience, be it in connection with complete line solutions or stand-alone membrane filtration systems.

We offer a wide range of polymer and ceramic membranes from all leading manufacturers, at the best price and shortest delivery time in the market, direct from our own warehouse.

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.

We look forward to cooperating with you.

**Tetra Pak is the world's leading food processing and packaging solutions company. Working closely with customers and suppliers, we provide safe, innovative, and environmentally sound products that each day meet the needs of hundreds of millions of people around the world.**



Our food scientists and process engineers design customer-specific solutions that meet the growing consumer demands for plant-based products.

**Tetra Pak**  
**Tetra Pak Filtration Solutions**

Bergsøesvej 17	12255 Ensign Ave North
8600 Silkeborg	Champlin, Minnesota 55316
Denmark	U.S.A.
<a href="mailto:filtration.info@tetrapak.com">filtration.info@tetrapak.com</a>	<a href="mailto:info.fe@tetrapak.com">info.fe@tetrapak.com</a>
Phone: +45 8720 0840	Phone: +1 763 421-2721