

Tetra Lactenso™ Aseptic

For maximum UHT dairy production

– Tetra Alsafe®



Safe & available

The point of an aseptic buffer tank is to give you flexibility, so you can keep your production running longer, with less product loss and greater efficiency.

Ambient production

After UHT treatment, the idea is to transfer your dairy product to one or more aseptic filling machines. And this is where it becomes important to understand the realities of modern dairy production.

Dairy processing equipment, like all machinery, needs regular cleaning and maintenance. The problem is, shutting down one machine sometimes means stopping the entire line. This not only has a very negative effect on throughput, but may result in considerable product losses due to impaired quality during a standstill, particularly for products that cannot be recirculated.

Efficiency and flexibility

The best way to keep production up and running is to install an aseptic tank between your UHT unit and your filling machine. An aseptic tank lets you continue your UHT treatment while cleaning your filling machine, or conversely, continue filling while cleaning your UHT unit. Or you can hold one product while producing and filling another. And the number of interruptions can be greatly reduced.

This is why an aseptic tank is absolutely the best solution for maximum production flexibility. This is the equation for improving your efficiency.

No impact

If you are producing aseptic dairy products, an aseptic buffer tank should prevent any impact on the asepticity of your product, and keep the chain unbroken. An aseptic tank should transfer your product and also prevent impact on the quality by making it unnecessary to recirculate.

In fact, the aseptic tank should have absolutely no impact of any kind on your product. What goes out of your tank to your filling machines must have precisely the same quality, flavour, nutrition and asepticity as what came into your tank from your UHT treatment.

The long run

Your aseptic tank should also have a long operating time. It should be designed to be possible to clean thoroughly and get back up and running quickly.

A tank designed and built for efficiency and easy cleaning also minimizes the consumption of energy, water and detergent. Combined with the long, efficient operating times and reduced product losses, this adds up to sustainability – in terms of the environment and of your business.

Enabling you to get it all

Tetra Alsafe is the aseptic tank that lets you get it all:

- Fully aseptic
- Extremely short pre-sterilization time
- Consistent product quality
- Up to 122 hours of operating time!
- No need for recirculation
- Outstanding production flexibility
- Reduced product losses
- Designed for absolute vacuum – no implosion risk
- Low energy consumption
- Easy, efficient operation with 10-15% greater throughput
- Operator-friendly touch-screen controls
- Fast, easy cleaning
- Sizes from 3,500 up to 50,000 litres

We guarantee it

Tetra Alsafe is a result of Tetra Pak's long experience and expertise in ambient dairy production, as well as extensive testing, to assure uncompromising food safety, product quality and production efficiency.

Moreover, our strong environmental commitment drives our development of sustainable solutions.

For ambient dairy production, all of these factors are combined in production solutions we call Tetra Lactenso Aseptic. It's not just talk. Every solution we deliver is backed by a validated performance guarantee!

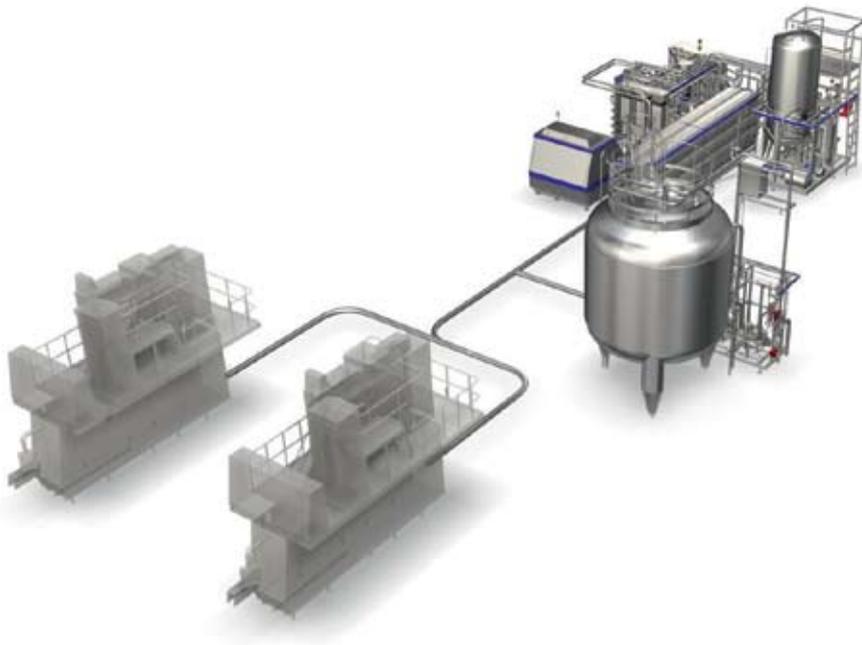


Any way you configure it

Complete Tetra Lactenso Aseptic solutions – or the addition of a Tetra Alsafe aseptic tank – may be configured in a variety of ways, depending on your production needs and requirements. On this spread you will find some examples of the most common configurations. Please feel free to consult your Tetra Pak representative to find out how Tetra Alsafe can enable you to get much more out of your aseptic dairy production.

Andrzej Holanowski
– part of the Tetra Pak team

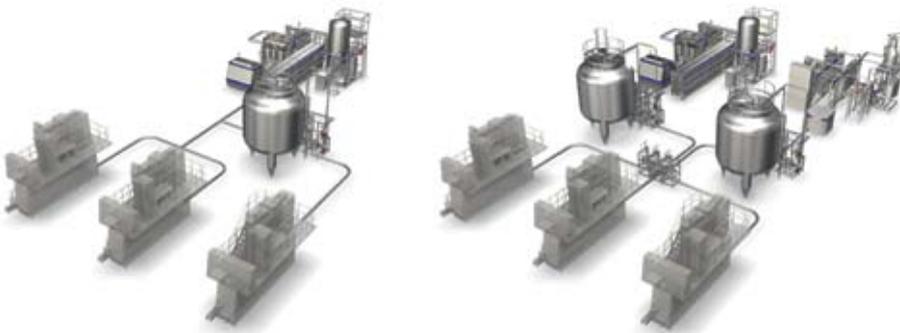




Adding a Tetra Alsafe aseptic tank in the line between the UHT unit and the filling machine is the most basic configuration. The tank lets you maintain product quality even in products not suitable for recirculation, e.g. heat-sensitive dairy products.

Moreover, it gives you great flexibility. Need to clean your UHT unit? Fill your aseptic tank, then clean your UHT unit while continuing to run your filling machine. When cleaning your filling machine, you can go on running your UHT unit, filling your aseptic tank. And when you finally need to clean your tank, just run directly from your UHT unit to your filling machine. It's all covered – and without product losses!

If you have a wide capacity range, with two or more filling machines, a Tetra Alsafe aseptic tank enables you to achieve maximum production efficiency.



Here we see how Tetra Alsafe can be used when packing two different products at the same time, one directly from the UHT treatment and one via the aseptic tank. This arrangement also enables non-stop production.

This configuration is designed to give you the maximum efficiency and flexibility in your production planning, particularly if you have a large dairy with more than one UHT unit, more than one aseptic tank and more than one filling machine.

In this configuration, any unit can be shut down for cleaning while another is running. You can run any processing to any tank to any filling machine. In other words, it enables you to be up and running 24/7.

The UHT treatment units shown here are Tetra Therm Aseptic Flex and Tetra Therm Aseptic VTIS. Tetra Pak is the only supplier offering all UHT treatment technologies – and is thus uniquely qualified to offer objective advice on what type of UHT treatment would best suit your products and production requirements.

Like Tetra Alsafe, UHT treatment units are included in Tetra Lactenso Aseptic production solutions, with validated performance guarantees.

Tetra Pak also supplies a comprehensive range of aseptic filling machines, as well as technical support packages to assure long-term, trouble-free operation.

A closer look

What makes Tetra Alsafe unique among aseptic buffer tanks? Let's look at a few of the design aspects that translate directly into added value for your products and production.

Robust, implosion-proof construction

Tetra Alsafe has a unique tank construction, designed for absolute vacuum pressure, which completely eliminates the risk of implosion. With Tetra Alsafe, it cannot happen. We guarantee it.

Steam from the top

Most aseptic tanks take in steam from the bottom of the tank. Tetra Alsafe is the only one that takes it from the top – a design that has been thoroughly investigated, scientifically proven, empirically tested and validated.

Unique valve cluster design

The pre-mounted valve clusters are designed without condensate pockets, i.e. no cold spots. The seals are designed to prevent fouling. And there is a steam barrier on the valve clusters to prevent loss of asepticity.

Simplified base

Because the Tetra Alsafe tank stands on three legs rather than four, only one load cell is required. This not only simplifies the design, but helps to prevent inaccurate input to the load sensors.

Useful options

Tetra Alsafe is available with a range of useful options:

- Separate inlet and outlet for even better product rotation
- Inlets from several UHT units
- Choice of agitators to assure safe, secure agitation for any dairy product
- Cooling at the bottom of the tank for ESL (extended shelf life) products
- Special configurations and sizes to meet just about any line requirements.

More dairy output from less input

Tetra Lactenso Aseptic production solutions are all about enabling you to achieve more output from less input. They are based on three principles:

- Efficient, reliable, low-cost production
- Consistent, uncompromising product quality and safety
- Sustainable use of resources, including minimized product losses, to ultimately support the sustainability of your business.

And they are backed by validated performance guarantees – whether you are adding a Tetra Alsafe aseptic buffer tank to an existing line or going for an entire Tetra Lactenso Aseptic solution.

We make it our motto

The Tetra Pak motto – PROTECTS WHAT'S GOOD – is about ensuring the solutions we deliver will enable our customers to protect product quality and safety, to protect production efficiency and profitability, and to do so in a way that helps to protect the environment. It's all part of the equation that can help to protect the long-term profitability of your dairy business.



