

LP Kolding meets challenges in hygienically design of skyr tanks

LP Kolding has great experience in process optimization within the production of dairy products by delivering tanks to the industry.



By Mogens Feld-Andreasen, Manager at LP Kolding

LP Kolding (LPK) has more the 50 years of experience within construction and delivery of stainless steel tanks - both atmospheric tanks and pressurized tanks for the food Industry. Last year at this time we could tell, that we had just developed a new washing cabin, based om CIP technology (Cleaning In Place) to a German costumer. The cabin was specially designed to clean transportable tanks for food products. The

development was done in collaboration with a German specialist in CIP plants and in close contact with the costumer.

The cleaning cabin provides a full automatic wash both inside and outside of tanks or containers in a volume from 10 to about 2,500 litres. The washing cycle per tank varies from 3 to 5 minutes.

It is possible to run the wash with different detergents, and the cabin is delivered as a complete CE marked unit with the necessary safety precautions.

Skyr tanks in hygienically design

Latest news this year — apart from business as usual, meaning delivering tanks to all over the world— we have designed and manufactured six 34 m3 fermenter tanks and three 28m3 buffer tanks for producing Skyr.

Because of the very high content of protein as well as the high viscosity, we were very much challenged on the hygienically design on the agitators and the inside construction of the tanks. During the CIP of the tanks any shadow would immediately be revealed, which means

that we also need to design CIP from the bottom of the tanks. No dead legs must occur, and all nozzle must be designed to be flush with the inside surface.

During the past year we have also had many other exiting projects, e.g design and delivering a complete plant for broth to Russia through our German customer, delivering horizontal tanks with agitators for oat milk in hygienically design to Sweden, three 60 m3 storage tanks with agitators for fish industry in Norway.

LP Kolding – the steel tanks

Apart from the skyr tanks LP Kolding primary business is construction and delivery of tanks in stainless steel. Pressurized tanks are custom made with a PED approval in accordance with 2014/68/EU, which makes them meet current EU safety standards for function, material design, manufacturing process and current tests.

LP Kolding has special skills within the manufacture of pressure tanks such as: Fermenters, mixer tanks, graft containers, process tanks, tube heat exchangers, sterilized tanks, tanks for compressed-air as well as vacuum tanks and boilers.

We clarify the requirements for the processing tank as regards design, number of valves, agitator, cooling-/heating jacket as well as various applications and measuring equipment. In addition, we clarify the requirements to strength, insulation and sheeting depending on the placing of the tank and we also handle the final installation and subsequent the documentation.

Complete systems made as units at LP Kolding include: Pasteurizing units, mixer units, fermentation systems, evaporators, powder pumps, drying chambers as well as churns and pressure filters, all turnkey units ready for installation at the dairy or wherever they are needed.





Skyr tank. The solid consistency of skyr imposes completely different requirements on the agitator than the skimmed milk. The agitator must touch the mass well so that it is completely uniform.

LP Kolding – the company

As sub-supplier LP Kolding has manufactured processing plants and tanks for most of the world. We offer:

Customized standard solutions both directly to the customer or as sub-supplier to larger Engineering companies. We are specialists within design, planning, construction, documentation and installation of tanks and processing plants made of stainless steel. The company typically co-operates with the customer from the idea has been presented until the desired plant has been constructed, installed and is ready for use.

Our business is based on specially constructed solutions dedicated to the customer and the co-operation is built on the good dialogue focused on the best solution for the customer.

The know-how of the company LP Kolding is founded on its 26 well educated employees, who have the necessary skills ranging from knowledge about design and construction to technical handling of materials during manufacturing and installation.



stainless
steel
solutions

Design and manufacturing of stainless steel tanks

More than 50 years of experience

Advice from idea to finished product

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