

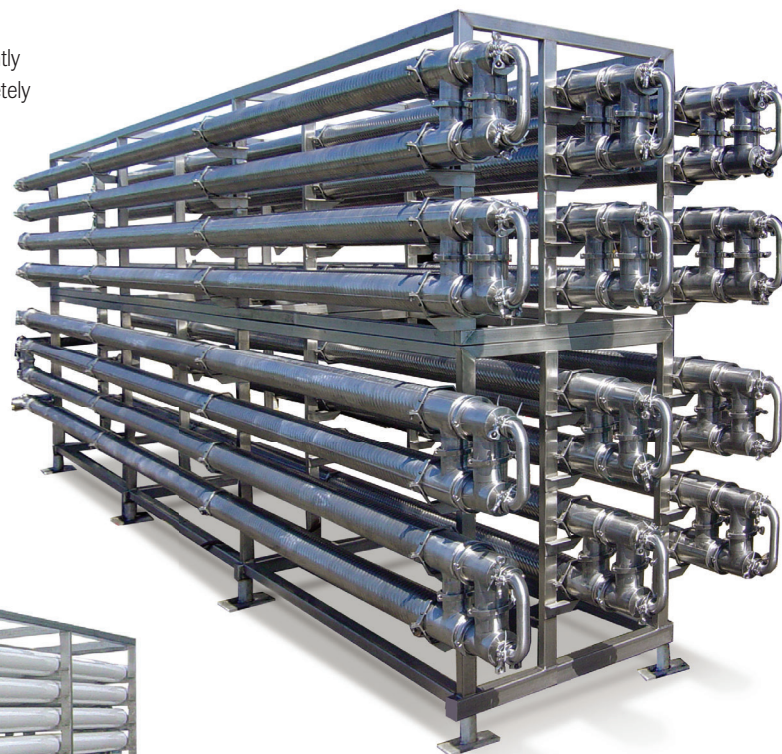
Floating Series Corrugated Tubular Heat Exchangers

Floating

The innovative design allows the tubes to freely expand and contract independently which diminishes material fatigue and failure. Thermaline's Floating Series completely eliminates failure-prone expansion bellows and rigid welds on all models.

Operational Simplicity

The product flow and heating/cooling media flow are separated in concentric lengths of sanitary tubing. The unit has no moving parts, is easy to clean, easy to inspect, and easy to maintain. Tube ends, with their sanitary clamp design, can be easily removed for QC inspections and maintenance.

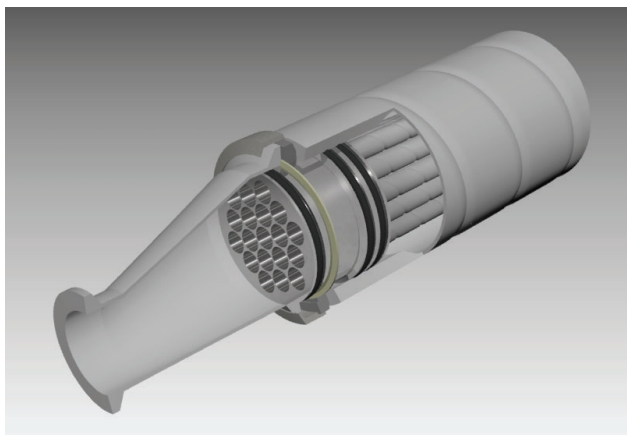
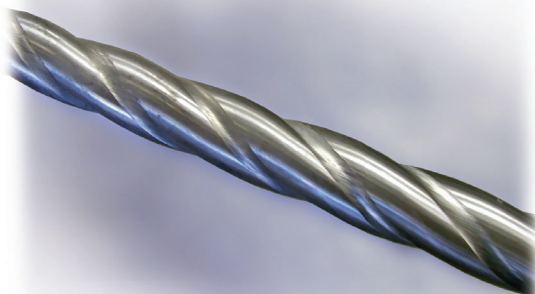


Go Green

Tubes can be arranged in either direct or indirect regeneration. Direct product regeneration can yield more than 80% in energy savings. Indirect product regeneration can recover energy from thermal waste streams in other areas of your facility, reducing thermal pollution and increasing energy savings.

Corrugation

The heat exchanger surface is shaped into turbulence-inducing, alternating parallel grooves and ridges to increase heat transfer efficiency. Inducing turbulent flow results in less total surface area required to achieve the desired thermal results. Turbulent flow promotes thorough mixing of the product and even thermal disbursement without compromising product integrity.



Safe

The strategically-positioned elastomers eliminate the possibility of product intermixing. If a leak were to develop from an elastomer failure, the fluid would be vented to the atmosphere so it can be quickly identified and repaired. The Floating Series eliminates blind, internally-positioned elastomers that can lead to cross contamination.



DuoFloat

Sanitary corrugated floating double-tube heat exchanger. Simplistic by design, two concentric tubes of varying size are positioned one inside the other. Excels at processing fluids of moderate viscosity with medium to large particulates.



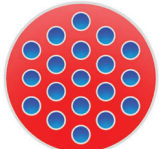
TriFloat

Sanitary corrugated floating triple-tube heat exchanger. Three concentric tubes of varying size are positioned so the media flows inside and outside of a product zone. Ideal for higher viscosity fluids with medium to small particulates and fluids with large viscosity changes.



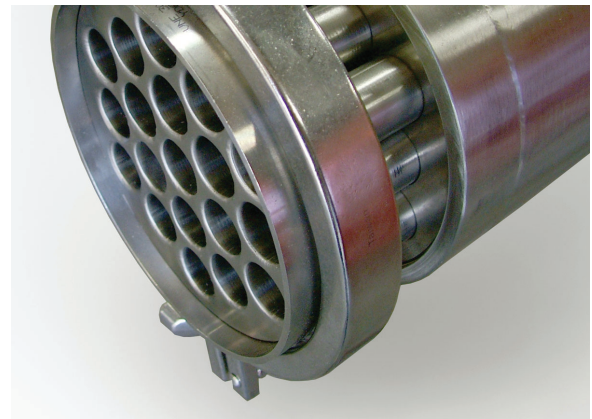
MultiFloat

Sanitary corrugated floating multi-tube heat exchanger. Multiple product tubes within a common media tube. Ultimate solution for thin fluid processing with small particulates and fibers.



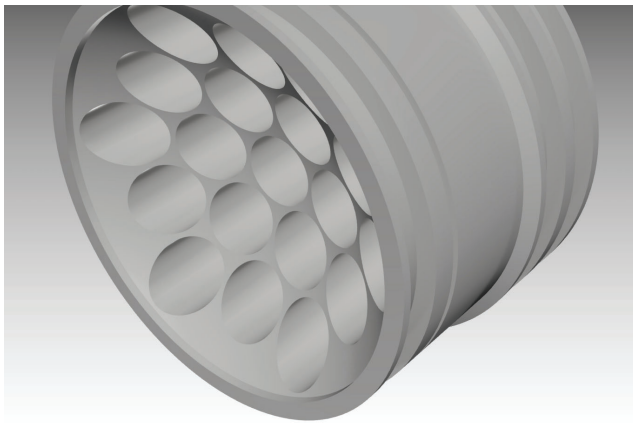
Versatility

Adding the DuoFloat inline mixer to your double-tube heat exchanger enables you to tune your processing needs to a variety of products. When processing fluids with large particulates, remove the DuoFloat inline mixer to maintain product integrity and then easily reinstall the mixers to ensure thorough heat transfer on your other viscous products.



MultiSafe

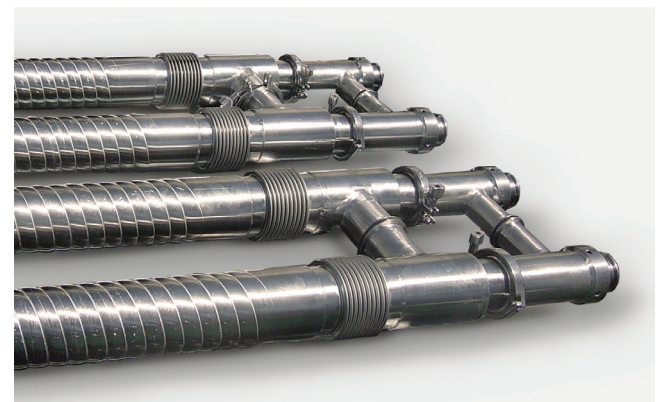
When product integrity is an absolute necessity, Thermaline offers a sanitary corrugated floating multi-tube heat exchanger with additional safety features. The product tube face is separated from the media tube face, eliminating the possibility of product cross contamination from tube-to-tube sheet failures.



ConClean

Thermaline's innovative concave tube sheet design smoothly guides fluids and particulates into each individual tube alleviating pressures and potential buildup.

During cleaning cycles, the ConClean design creates a vortex that further enhances the cleaning process ensuring nothing is left behind and all surfaces are clean.



All Welded

For aggressive applications, Thermaline offers double-tubes, triple-tubes, and multi-tubes in an all-welded design with expansion bellows.