

Tranter Shell and Plate Heat Exchangers

Attain high heat transfer rates under elevated process conditions, in less space and at lower cost than shell and tube units.

Challenge

Until recently, heat exchangers in elevated pressures/temperatures or corrosive media applications were often shell and tube (S&T) units. This solution meant constant tradeoffs in thermal efficiency, material mass and excessive physical footprint.

Solution

Tranter's welded plate exchangers allow you to attain high heat transfer rates under elevated process conditions, in less space and at a lower cost than S&T exchangers.

Framatome is now the primary channel to the nuclear market for Tranter's shell and plate heat exchangers. Tranter Inc.'s shell and plate heat exchanger design offers reliable performance along with a significantly smaller footprint and lower weight, compared to shell and tube heat exchanger designs. The design provides distinct advantages in situations where size, weight and overall footprint are significant constraints.

Framatome will qualify and dedicate Tranter heat exchangers purchased for use in nuclear plants for non-safety, augmented quality and safety-related applications.



Customer benefits

Advantages of the SUPERMAX® and MAXCHANGER® exchangers

- Cost effectiveness and minimal maintenance
- Significantly higher heat transfer rates
- Less cost for materials (stainless steel, titanium or other expensive higher alloys)
- Simpler fabrication for shorter delivery lead times
- Easier installation
- Simpler support structures and vastly smaller footprints

Your performance
is **our** everyday **commitment**

Efficiency and ease of maintenance mark the versatility of Tranter Heat Exchangers in nuclear power applications:

- Closed loop system coolers
- Spent fuel pool coolers
- Lube oil coolers
- Seal water coolers
- Condensate coolers and heaters
- Reactor drain heat exchangers

Tranter's SUPERMAX® and MAXCHANGER® Welded Plate Heat Exchangers require only a fraction of the space of the equivalent shell and tube exchangers. Turbulent flow induced by the corrugated and dimpled plate patterns produces high heat transfer rates. This high efficiency allows Tranter to design compact exchangers with a 1°C (2°F) temperature approach. Another benefit is the small hold-up volume, which offers fast start-up times and precise temperature control.

Tranter fabricates in accordance with all major design codes, specifically ASME Section VIII Division 1 with U stamp, and PED 97/23/EU with CE stamp. All Tranter manufacturing centers worldwide are certified according to ISO 9001:2008.



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