



DRIVES



MODULAR SHELL & TUBE HEAT EXCHANGERS

Purpose designed for oil cooling applications & especially suitable for handling of hydraulic oil

FOR TECHNICAL SUPPORT CONTACT:

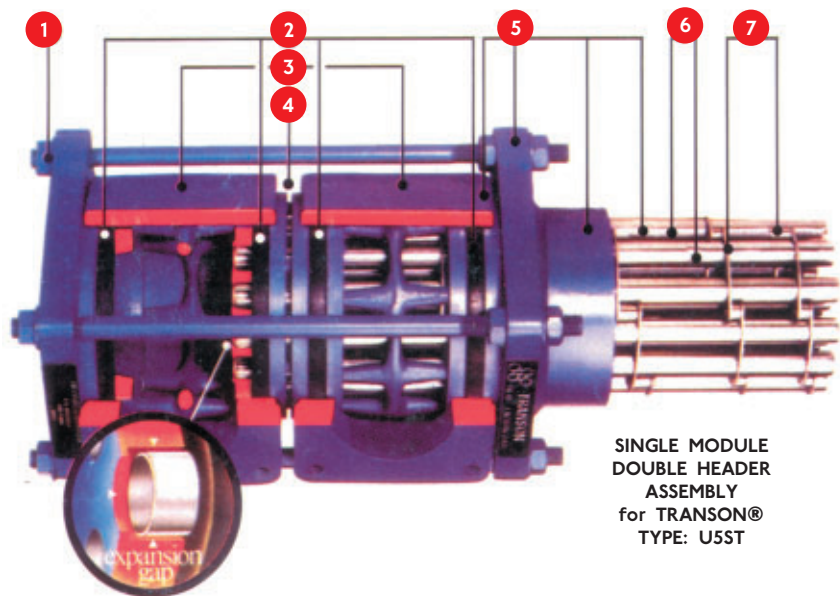
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A DIVISION OF THE BEARING MAN GROUP

SANS ISO 9001:2000



SINGLE MODULE
DOUBLE HEADER
ASSEMBLY
for TRANSON®
TYPE: U5ST

- 1 Bolted construction
- 2 Replaceable elastomeric seals
- 3 Fail-safe safety feature: atmospheric 'gap' preventing cross-contamination of fluids
- 4 Individual headers
- 5 Robust construction for heavy duty application utilising standardised components
- 6 Unrestrained freely floating tube bundle. Individually replaceable tubes
- 7 Patented shell-pass helical spiral baffle assembly ensuring unidirectional fluid flow

THE TRANSON® HEAT EXCHANGER SYSTEM INTRODUCES NEW STANDARDS OF ECONOMY IN THE FIELD OF HEAT TRANSFER AND PROCESS TECHNOLOGY - IN DESIGN, OPERATING EFFICIENCY AND VERSATILITY OF APPLICATION.

- Construction Code
- Modular Construction
- Standard Dimensions
- High Thermal Efficiency Unidirectional Flow
- No Welding
- Versatility
- Easy Maintenance
- Individual Tube Replacement
- Fail-safe Fluid Separation
- Ready Availability Means Low Inventory
- Extendable Design

Where applicable TRANSON Heat Exchangers comply with ASME VIII Division1.

The unit consists of one or more shell and tube type standard units or modules.

The modules are manufactured to standard dimensions incorporating a rationalised set of components and straight bore tubing. Arranged as single module or multi-module units in parallel or series configuration according to capacity and size requirements.

Unique patented shell pass baffle assembly ensures uni-directional flow at relatively high velocity, eliminating dead spots. Straight tubes ensure unrestricted flow.

Bolted stud assembly eliminates structural welds. Elastomeric mountings enable the tube bundle to 'float' within the shell when subjected to fluctuating temperatures - thereby eliminating induced thermal shock loads.

Available in a wide range of steels, alloys, corrosion- and abrasion-resistant materials..

No special tools required. Easy tube cleaning in-situ. Easily replaceable seals. Access to the seals is gained by simply removing the four external nuts.

An outstanding feature of the design is that individual tubes, or the complete tube bundle, can be removed and replaced in-situ without disconnecting related pipework.

Fluid separation is ensured by individual fluid pass headers in conjunction with internal seals. The bolted assembly provides for a separation 'gap' to atmosphere between the headers, ensuring that in the event of seal deterioration, fluid leaks externally to atmosphere instead of internally. This prevents internal mixing or cross-contamination of fluids.

Standardised interchangeable components from locally-manufactured stocks enable short lead times and early delivery of units.

Modular design enables installations to be up-rated or extended to provide for increased capacity requirements.

APPLICATIONS

- * Water coolers and heaters
- * Acid and caustic heaters
- * Storage and non-storage calorifiers
- * Engine jacket water coolers
- * CIP and CIL Elution heating

- * Compressor intercoolers and aftercoolers
- * Closed circuit cooling systems
- * Economisers and heat recovery units
- * Charge-air coolers
- * Refrigeration evaporators and condensers

- * Steam and vapour condense
- * Fuel gas and air heaters
- * Oil coolers
- * Waste heat recovery systems

TRANSON heat exchanger modules are generally smaller than conventional types of exchangers. This facilitates compact plant design and better utilisation of space. Modules can be arranged in horizontal or vertical configurations as required. A standard range of mounting stands designed for simple, quick installation to match related pipework is available for supply with the units.