



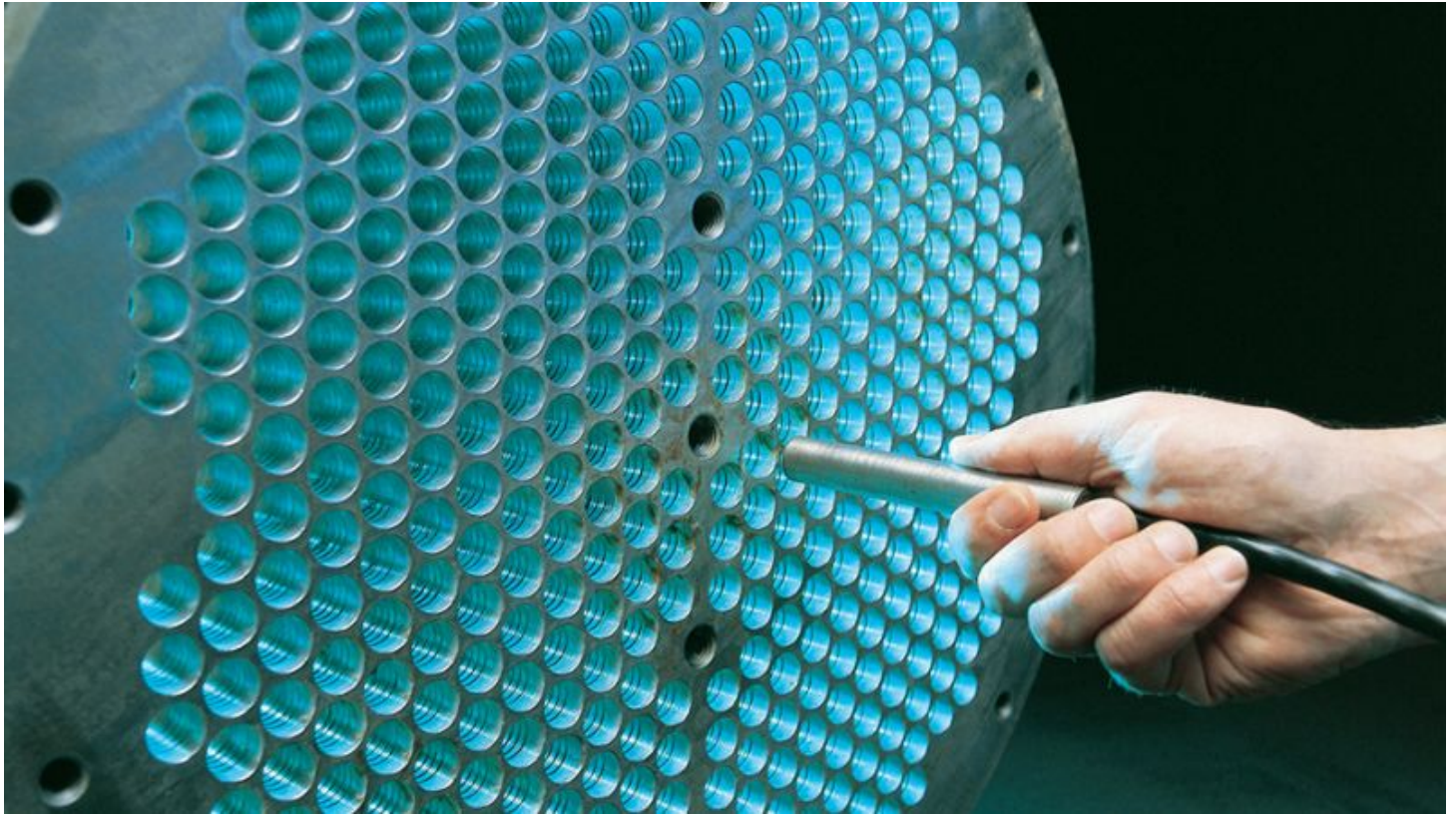
Tube Testing

Maintain heat exchangers in optimum condition



TRANE
TECHNOLOGIES

Tube Testing



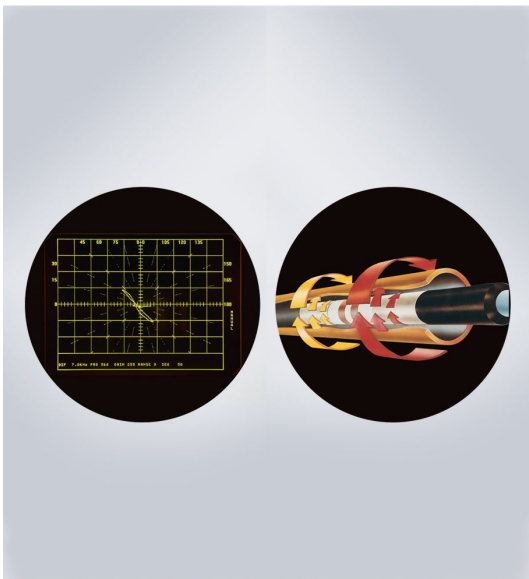
- Identify conditions of any tubes exchanger
- Eddy Current tube testing
- Report nature of defects
- Identify cause of failure
- Comprehensive report with recommendations for corrective actions



Detect faults early and increase system reliability

A heat exchanger contains several hundred tubes, all undergoing mechanical stress and chemical corrosion. Tube condition is critical to chiller performance but is not checked during standard maintenance. Equipped with the latest technological tools, Trane can detect, locate and record internal and external corrosion, deposits, wear or cracking before any major compressor damage results.

Eddy current tube analysis is the recommended scientific method to identify the root cause of an exchanger problem and the extent of tube damage. While relatively easy to maintain, heat exchangers can be very expensive to repair or replace. To avoid this, tube analysis should be conducted as a part of predictive and curative maintenance. Trane tube testing is applicable to all types of tube in shell heat exchangers.



Analysis of evaporator and condenser tubes by Trane service experts

Trane has over 30 years of tube testing experience and was in fact the first HVAC manufacturer to apply the Eddy Current technique. Trane specialists use an inspection probe inside each tube of the exchanger unit to detect the magnetic field that is generated by the eddy currents. The magnetic field is monitored with a micro-processor-based memory oscilloscope. If a defect such as a crack is detected in the tube, the magnetic field from the eddy currents will be disturbed from their normal circular shapes and a change in the signal will display on screen.

Improve Operations

Technology is continuously evolving and Trane Engineering is ahead of the curve in bringing innovation into product development. Our sustainable solutions deliver enhancements to the Trane installed base to make your chillers and heat pumps even "better than before". That's Trane Building Advantage - TBA.

Trane Rental Services

Cooling and heating are services, not products. A process or a building does not need a chiller or a boiler sitting on a roof, but a reliable and efficiency supply of cold or hot water, cold or warm air. This is the essence of what we do at Trane Rental Services. Let us take care of it for you.



Read more <https://trane.eu/rental>

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.eu or tranetechnologies.com.