



Trane Building Advantage

Automatic Tube Cleaning

Optimizes system efficiency and minimizes costs

TRANE
TECHNOLOGIES

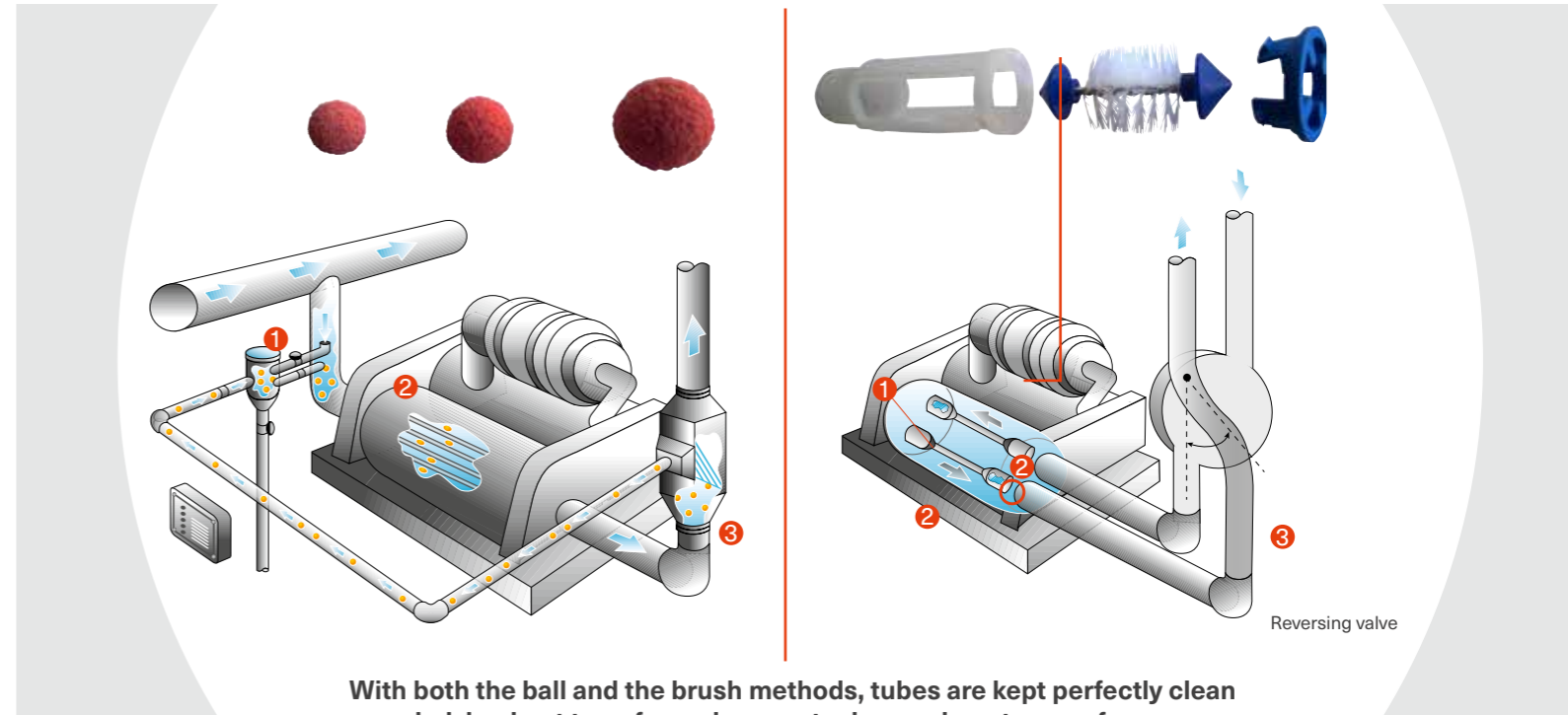
Enable your HVAC system to work at peak efficiency

Over time, water-cooled units suffer from fouling of their heat exchanger surfaces. Efficiency is lost causing compressors to operate at a higher temperature and pressure leading to increased energy use and higher operating costs.

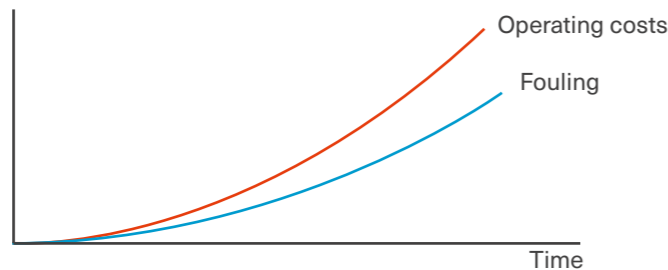
Just a 1°C increase in condenser temperature can mean a 2 % increase in operating costs.

Trane automatic tube cleaning system operates continuously to keep heat exchanger surfaces free from fouling. System capacity and efficiency are maintained at peak levels and energy consumption is minimized.

In addition, periodic HVAC shut-downs for tube cleaning are no longer needed, saving you both time and money.



Fouling and Operating costs



A choice of two technologies

Trane automatic tube cleaning system is offered in two configurations:

Ball tech system

- 1 Sponge balls are regularly injected at the exchanger inlet.
- 2 Balls are carried by the water flow through the condenser tubes, removing scale and fouling and keeping the tubes clean.
- 3 Balls are trapped at the outlet and driven back to the inlet to start a new cleaning cycle.

Brush system

- 1 Every condenser tube is fitted with baskets on each side containing one brush.
- 2 The brush is driven from one end of the tube to the other by the water flow. A reversing valve switches the flow direction to drive the brush back.
- 3 The flow direction returns to normal at the end of the cycle.

The benefits of Trane automatic tube cleaning system

- **Adaptable:** Our solutions suit all tube-in-shell heat exchangers. They are supplied fully programmed, with settings for varied water quality.
- **Improved operating efficiency:** When cleaned, your chiller will operate at maximum efficiency, leading to lower energy use and consequent cost reduction.
- **Extended chiller life cycle:** Your compressor will never operate beyond its design criteria and condenser tube fouling will be eliminated.
- **No chiller downtime:** Costly and inconvenient downtime is avoided by continuously cleaning the condenser tubes during chiller operation.
- **Low maintenance solution:** The sponge balls and brushes have a long service life and are the only consumables.
- **Reduced water treatment costs:** Water treatment is only required to prevent scaling of ancillary equipment, leading to cost savings of up to 50% on chemicals.
- **Zero environmental impact:** Trane automatic tube cleaning uses no chemicals and so creates no waste or pollution.

Contact us

We can help you select the right tube cleaning system for your specific needs.

Our experts will listen carefully to your needs and propose the best solution to keep your equipment clean and operating at peak efficiency.





Trane Services

The real expertise of a manufacturer



- Systems approach
- Dependable installations
- Energy saving solutions
- Operating cost optimization
- Chiller plant management solutions
- Chilled water production solutions.

At Trane, we are committed to providing a comprehensive portfolio of HVAC solutions throughout your system lifecycle.



Breakdown resolution

No one plans for breakdowns, but when they happen you need the right partner. Our expert Service Engineers use the latest diagnostic tools to guide you through your options to Repair, Renew, Replace or ReThink.



Secure operations

At every point during the lifetime of your equipment - installation, commissioning, maintenance or breakdown - Trane can offer an effective solution with commissioning, first-aid kits and service agreements.



System upgrade

Trane Building Advantage

Trane is committed to bringing the latest technological advantages to our customers through a wide portfolio of solutions which increase the Efficiency, Reliability and Sustainability of their HVAC plants. Our Service Engineers use their expertise together with the latest diagnostic tools to future-proof your system and make it "better than before".



Equipment rental

For special events, exceptional needs or when you want to ReThink HVAC management, Trane Rental Services have the right solution. With our extensive fleet of equipment, we can perfectly match your temporary heating and cooling requirements.



Contact us

With over 1000 of the best trained sales engineers and service technicians in the industry, Trane is in the best position to serve your needs. Just call us and we will help you configure the Trane Free Cooling solution for your HVAC system.



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.