



**TRANE®**



# Trane Surefit™ Coils

*Restore original HVAC system performance*





## *Restore your peace of mind*

### **Your HVAC system has to be dependable**

*Your facility depends on an efficient, reliable HVAC system for employee comfort and well-being. In many cases, critical process applications will be shut down in the event of a HVAC failure. It is essential to adopt a predictive rather than a reactive approach when it comes to maintenance.*

*Your energy costs are likely to be a large budget item needing careful management and efficient coils will deliver significant savings.*

### **Coils are the most sensitive part**

No matter what the brand of your equipment is, the most likely point of failure will be the heat exchangers, such as water coils or steam coils, situated indoors or outdoors. Coils lifetime is limited by nature. By necessity, they are constructed with thin metals for efficient heat transfer. These metals are under constant attack on the inside and outside by contaminants, the environment and the stress of continuous heat/cool cycles.

### **Warning signs**

The most common failure mode is a coil leak, shutting down your HVAC system and possibly your site operation. But long before a leak develops, your system is likely to suffer a gradual loss of performance accompanied by a gradual increase in energy consumption.

# Causes of coil damage

## Dirt-encrusted fins

The large surface area and narrow gaps between coil fins causes dirt accumulation and incrustation.

By insulating the fins, this dirt can prevent effective heat exchange as well as causing moisture carryover.

## Neglected maintenance

If coils are not inspected and cleaned as recommended by the manufacturer, contaminants like dust, debris, mould and bacteria can accumulate. This can dramatically reduce coil lifespan.

## Tube fouling

The gradual build-up of contaminant deposits within the coil tubing acts as insulation, reducing the ability of the coil to transfer heat. Sludge build-up will also reduce the internal diameter of the tube resulting in a water pressure drop. Corrosive elements in water can perforate the coil from the inside.

## And...

Other causes of coil damage can include extreme operating conditions such as excessive temperature, pressure, vibration or cycling. If the coils were not correctly specified at the outset, or are of an obsolete design, then system functionality will be jeopardized.

## Thermal cycling

Repeated rise and fall in temperature can also separate fins and tubes affecting thermal performance. It can also create friction between tubes and other metal components leading to premature wear.

## Environmental attack

Environmental conditions can weaken a coil's structure, causing premature failure. Air pollution can create acids that attack tubes and fins, especially the air-borne salt that is common in coastal areas. Water which collects on coils in winter can freeze and expand causing severe damage.

## A simple and effective solution

Coil replacement is the most cost effective way to

- Avoid unscheduled breakdowns
- Reduce unscheduled maintenance costs
- Restore your HVAC performance to "as new" standards
- Regain system efficiency to cut energy costs



# *The solution is Trane SureFit™ coils*

## **Trane is your single source of expertise**

- On-site inspection
- Performance assessment
- Diagnosis
- Specification and quotation for replacement
- Supply, installation and commissioning
- Future service and maintenance

## **Sure to fit**

Following a site inspection performed by a qualified service engineer, recommendations on corrective actions will be provided. When the specification is approved, we will provide rapid delivery and installation of competitively priced coils built to the right specification for your equipment, whatever the brand or application may be.



## High-quality coils

Trane's expertise and attention to detail will ensure your SureFit™ replacement coils fit your application perfectly and perform as promised. Peace of mind comes from the assurance of years of trouble-free operation.

## Coils for any application, equipment or brand

Regardless of your equipment's manufacturer, you can rely on Trane to provide a replacement that will improve efficiency, reduce energy costs and get your system up and running fast.

## Competitively priced coils

Trane's extensive experience and manufacturing expertise gives us the capability to design, build and distribute high quality coils at a reasonable cost. In addition, Trane's large distribution network will provide efficient local support.

## 100 years of experience

With a century of leadership in coil engineering and manufacturing, Trane can guide you through the coil selection process. Your Trane representative has the expertise to ensure coils both fit your application and deliver the promise of performance and reliability.



# Making buildings better for life



## Performance

Trane SureFit™ replacement coils are designed, engineered, built and tested to be solid performers with the longest possible life. Regardless of the equipment or application, Trane SureFit™ replacement coils will help it perform at its best.

## Innovation

Founded a century ago on the belief that imagination and inspiration can overcome any obstacle, the Trane legacy of technological breakthroughs has made it an industry legend. Today's Trane SureFit™ coils are the product of nearly 100 years of innovations to maximize performance, efficiency, reliability and longevity.

## Commitment

Trane's reputation depends both on our products' performance as well as our relationships with customers. The Trane commitment to your satisfaction begins the moment you call us and is maintained throughout the coil manufacturing, delivery, installation, and their life span.

## Knowledge

To become and remain an industry leader requires a full understanding of existing knowledge and a never-ending quest for new discoveries. For one hundred years, Trane has built and maintained its leadership status in the HVAC industry by employing the brightest and most inquisitive engineers and design experts—all of whom share a singular passion to know and explore the ever-evolving technology that improves the systems of our customers.

# Trane SureFit coils

## Evaporators and condensers for

- Hot or cold water
- Steam
- Refrigerant

## A choice of protective coatings

- Epoxy coated fins
- Complete anti-corrosion treatment







## A choice of design options

- Tube wall thickness
- Number of circuits
- Fin spacing

## A choice of materials

- Aluminium
- Copper
- Stainless steel

Contact your nearest Trane sales office now, for more information or a quotation.

	Standalone and duct application	Air handlers	Terminal units and fan coils	Unit ventilators	Water source heat pumps	Split systems	Packaged rooftop units	Self-contained	Air cooled chillers
Hot water 	✓	✓	✓	✓			✓	✓	
Chilled water 	✓	✓	✓	✓			✓	✓	
Steam 	✓	✓	✓	✓			✓	✓	
Evaporator 	✓	✓	✓		✓	✓	✓	✓	✓
Condenser 	✓	✓				✓	✓	✓	✓
Heat recovery 	✓	✓	✓				✓	✓	✓

# High Performance Buildings

Your Mission. Realized.

Efficient Systems

Controls

Services

Turnkey Solutions

## Services Portfolio

### Trane Elite Start™



- Validate installation
- Engineering checklist for optimal start up
- Verify and record design operational parameters

### Trane Select™ Agreements



- Comprehensive service agreements for HVAC systems
- Improve reliability and efficiency
- Improve cost of ownership

### Trane Extended Start



- Foundation for high performance buildings
- Benchmarking baseline parameters
- Monitor and adjust system critical parameters

### Trane Controls Services



- Solutions for sustainable high performance buildings
- Maintain system fitness
- Optimize system performance

### Genuine Parts and Repair Services



- Comprehensive OEM parts
- State of the art logistics
- Factory authorized technicians

### Trane Care™ Services



- System enhancement service solutions
- Reliability – Energy – Environmental Solutions
- Improve comfort and operating efficiency

### Trane Chiller Health Check Program



- Inspect chiller operating conditions
- Evaluate basic and critical parameters
- Recommend upgrade and improvement solutions

### Trane Intelligent Services



- Remote monitoring with professional advantage
- Address key operational challenges
- Critical alarm management and event log

### Trane Service Agreements



- Planned maintenance
- Minimize downtime and extend equipment life
- Reduce operating costs

### Trane Rental Services



- Temporary cooling solutions
- Reliable equipment and fast service
- All building purposes



Trane® is a brand of Ingersoll Rand®. Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Ingersoll Rand®, Trane®, Thermo King® and Club Car® — work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a global business committed to a world of sustainable progress and enduring results.



[engineer.trane.com](http://engineer.trane.com)

[trane.com](http://trane.com)

[ingersollrand.com](http://ingersollrand.com)

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. Trane bvba, Lenneke Marelaan 6, 1932 Sint-Stevens-Woluwe, Belgium, ON 0888.048.262 - RPR Brussels

We are committed to using environmentally conscious print practices that reduce waste.

© 2014 Trane – All rights reserved  
COIL-SLB006-E4 January 2014