



TRANE®



Adaptive Frequency Drive

Superior Chiller Performance



Adaptive Frequency Drive retrofit kits are available for Trane air-cooled and water-cooled chillers. If you own a RTAC, RTAD, RTWD or RTWB chiller, you can now achieve superior performance thanks to Trane Adaptive Frequency Drive. Trane can accurately project energy savings based on your input.



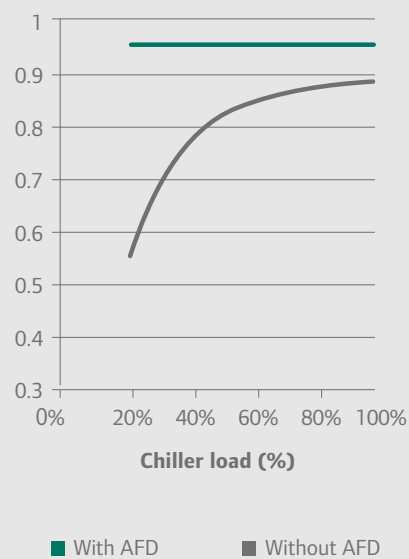
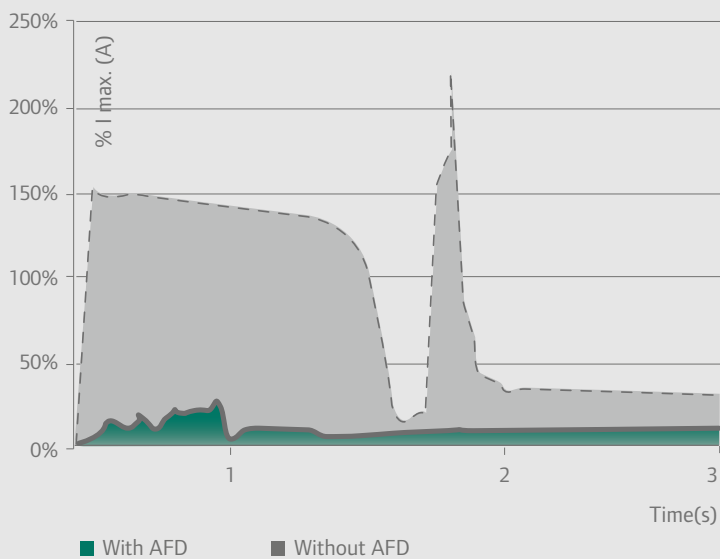
Trane RTWB



Trane RTWD

Start-up current reduction

Power factor correction



Upgrade solutions adapted to many chillers



Trane RTAC



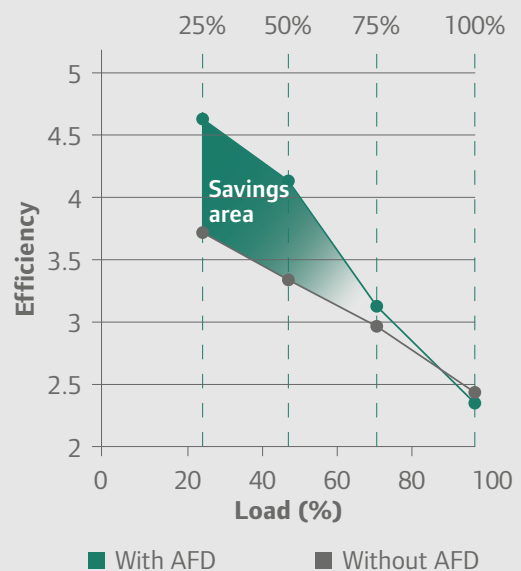
Trane RTAD



Operational benefits

- Improves energy efficiency by up to 25%
- Delivers a constant power factor correction of 0.95 and comply with energy provider requirements
- Reduces start-up current draw by up to 85%, thereby reducing heat build-up in the motor and minimizing component stress
- Leading control technology optimizing energy consumption and communicating to any BMS connected to LonTalk®, Modbus or BACnet®.

Energy efficiency gains

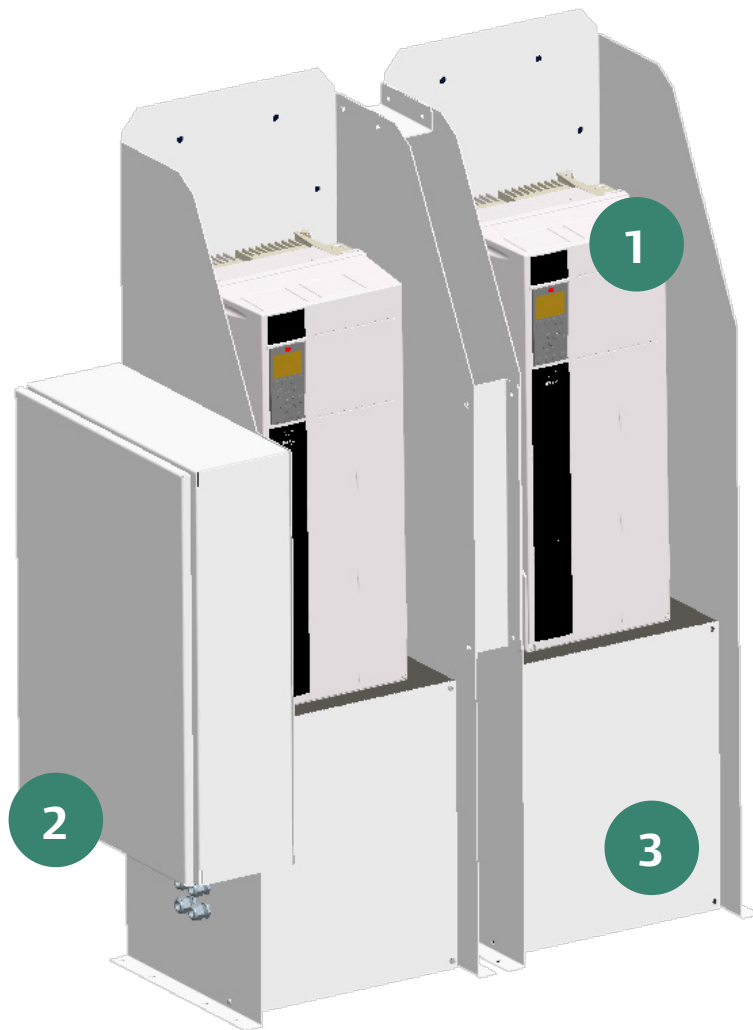


Results obtained through laboratory tests using the ESEER Eurovent methodology.

Up to 25% energy savings with state-of-the-art control

The second largest energy user in most buildings is the chilled water system.

Trane Adaptive Frequency Drive can make a significant reduction in your chiller energy consumption.



Adaptive Frequency Drive retrofit kit

Easy installation

- Factory supplied kit means everything you need is on-site
- Factory prewired to eliminate installation errors
- Can be disassembled for easy installation in tight spaces

Reliable operation

- Factory designed and tested
- No control modifications needed to ensure optimum reliability and efficiency
- Installation and commissioning by experienced Trane technicians



1

Trane Adaptive Frequency Drive:

- IP54 for outside operation
- Developed specifically for use on Trane compressors



2

Advanced control tested in laboratory to ensure safe and reliable operation.



3

Compliant with Electromagnetic Compatibility (EMC) requirements:

- Radio frequency filter
- Chokes to increase motor bearings life

Trane Adaptive Frequency Drives are ideally suited to facilities that have:

- A significant proportion of run hours at part load
- Chillers that are noisy when running at part load
- Chillers experiencing frequent start and stop routines
- Locations with particularly high energy rates
- Areas offering local utility rebates

High Performance Buildings

Your Mission. Realized.

Efficient systems

Controls

Services

Services portfolio

Trane Elite Start™



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

Trane Select™ Agreements



- Comprehensive service contracts 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 Building Advantage



- Extract key data from your system to make informed decisions
- Achieve optimum operation of your existing equipment
- Use targeted interventions with the latest technology to update your system

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.



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