



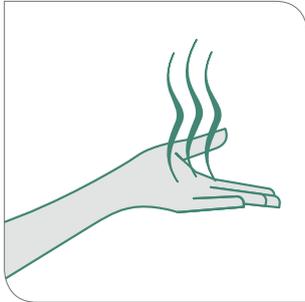
TRANE®

RTHD Adaptive Frequency Drive

Improve your chiller DNA



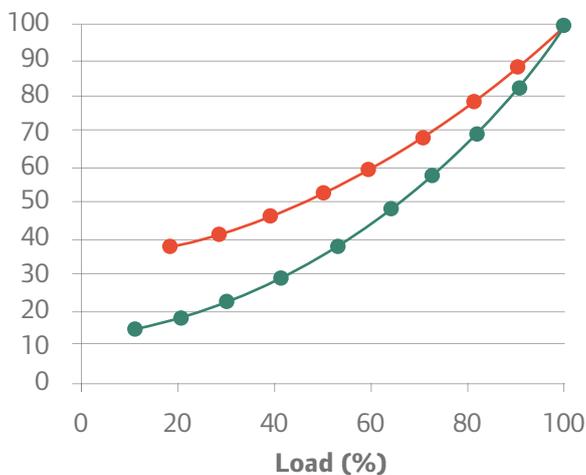
Low energy costs through a high-tech solution



The second largest energy user in most buildings is the chilled water system. The RTHD Adaptive Frequency Drive, available as a retrofit kit from Trane Care Energy Services, can make significant savings in the energy your chiller consumes.



Power Input (%)



● RTHD with Adaptive Frequency Drive
● Original RTHD

Source: Trane testing facility.

Energy savings through efficiency gains

Trane AFD reduces electricity bills by improving chiller efficiency at reduced load, while at same time meeting the building's cooling requirements. The combination of Trane chiller capacity control and Adaptive Frequency Drive will improve your chiller efficiency up to 35%.

Operational benefits

- Reduces start-stop cycles by enabling the chiller to operate at lower capacities.
- Increases compressor reliability by reducing wear and tear on the motor.
- Reduces start-up current draw by up to 85%, thereby lowering operational stress and reducing heat build-up in the motor.
- Delivers a constant power factor correction thus reducing your electricity bill.



Better view into your chiller

Tracer UC800 & TD7 chiller controls ensure that occupants are cool and comfortable while critical processes are fully maintained.

- **At a glance status** with color display shows key operating parameters.
- **Intuitive navigation** allows quick access to critical data.
- **Alarms** enable fast response and rapid resolution.
- **Adaptive Control** algorithms pre-empt chiller disruption.
- **Flexibility** is a given with the use of open protocols such as BACnet®, LonTalk™ and Modbus.

Trane Adaptive Frequency Drives are perfectly suited for facilities with one of the following characteristics:

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



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



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