



Air-Cooled Series R[®] Helical-rotary liquid chillers

RTAD 85-100-115-125





The Next Generation

The most recent development in Trane's air-cooled chiller range is the model RTAD. It features a new generation of helical-rotary compressors, improved acoustic performance, and for the same capacity, a smaller footprint than ever before.





Controls

Model RTAD chillers are equipped with a unique micro-processor control: Adaptive Control™. It means that the system takes corrective action when any of the control variables approaches a limit condition at which the protection function of previous control schemes would normally have shut-down the chiller.

The control system integrates all the functions that are necessary to ensure safe operation of the chiller in all applications and duty conditions.

Thanks to Adaptive control™ installation, start-up and operation will be safe and trouble free.

Reliability

The Trane Company is the world's largest manufacturer of large helical-rotary compressors. Continuous, extensive research and development, testing, and advanced manufacturing processes provide the most reliable compressor in the air conditioning and refrigeration industry.

Tens of thousands of commercial and industrial installations worldwide have proven that the Trane helical-rotary compressor has an unequaled reliability rate of 99.5 percent in the first year of operation.

How does Trane achieve these world-class standards?

The Trane Series® chiller uses a direct-drive, low speed, semihermetic compressor design with fewer moving parts than other compressors available on the market.

Model RTAD chillers: Built to last, designed to perform.



Acoustical performance

Besides helical-rotary compressor proven design and excellent sound characteristics, Trane has developed a highly engineered condenser fan to meet the most severe requirements of acoustical performance: **ZephyrWing**. The **ZephyrWing** fan makes use of the most recent fan technologies available and is specifically designed to accommodate the various operation conditions experienced in chiller applications.

Model RTAD chillers fit into most applications even in noise-sensitive environments.



Refrigerant

Model RTAD helical-rotary chillers have been optimized for exclusive use of chlorine-free and ozone layer-friendly, R134a refrigerant.

Model RTAD chillers guarantee a refrigerant that has a future and that complies with current and upcoming environmental regulations.



Communication

Model RTAD chillers are compatible with Trane building management systems. A single twisted pair of wires tied directly between the chiller and a Tracer Summit® system provides control, monitoring, diagnostic and integration capabilities.

Model RTAD chillers monitored with a Tracer Summit® building management will maximize comfort of the people occupying the building.

General Data

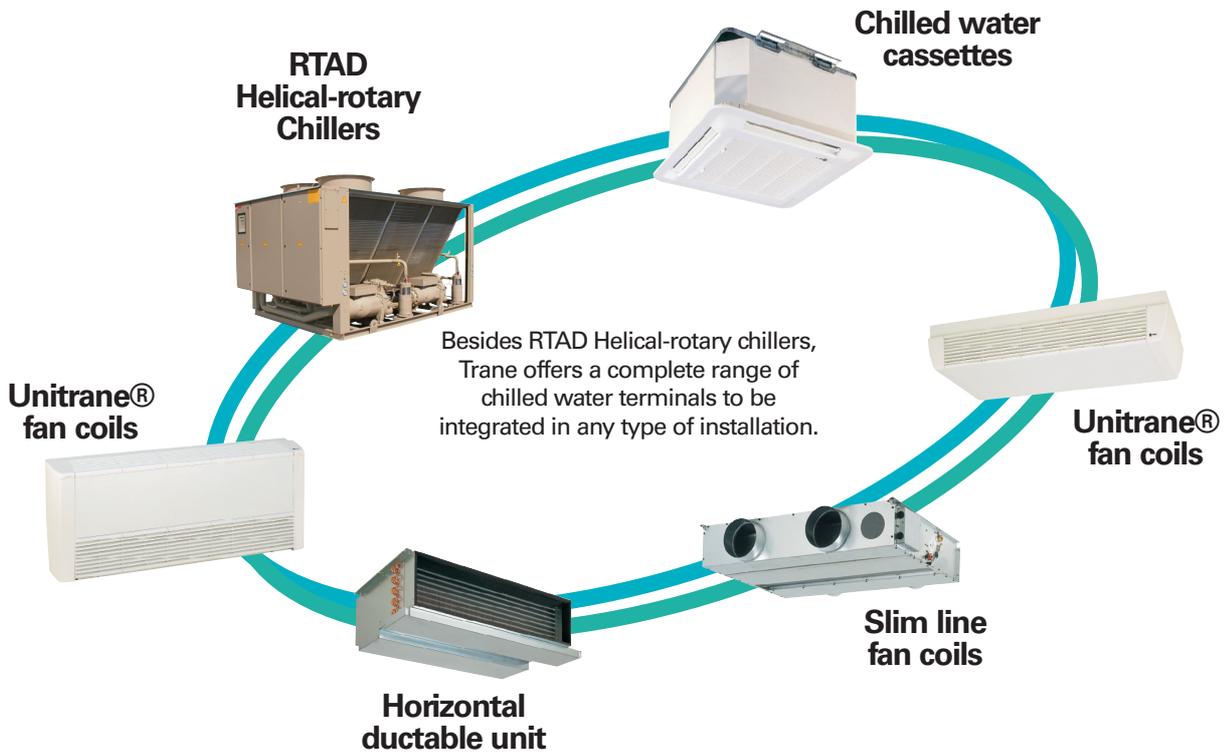
Standard unit size		85	100	115	125
Cooling capacity (1)	(kW)	270.3	324.3	386.2	440.9
Power input (1)	(kW)	90.7	110.1	139.8	177.9
Coefficient of Performance (2)		2.67	2.69	2.57	2.34
Refrigerant		R134a			
Number of refrigerant circuits		2	2	2	2
Number of compressors		2	2	2	2
Evaporator water connection diameter	(inches)	5	6	6	6
Sound power level (3)	(dB(A))	96	97	96	96
Sound pressure level at 10 m (3)	(dB(A))	64	64	63	64
Length	(mm)	3531	4452	4452	4452
Width	(mm)			2260	
Height	(mm)			2095	
Shipping weight	(mm)	2550	2835	3335	3570
Operating weight	(mm)	2660	3100	3560	3570

(1) Compressor power input only at 7°C leaving water temperature and 35°C entering condenser air temperature

(2) Power input including compressor, condenser fans, control power

(3) Under free field conditions only, on a reflecting surface, data in accordance with ISO 3746-1996

TRANE comfort chilled water systems



The Trane Company
An American Standard Company
www.trane.com

For more information contact
 your local sales office or
 e-mail us at comfort@trane.com



Quality Management System Approval



Literature Order Number	RLC-SLB008-E4
Date	09/01
New	
Stocking Location	Europe

Since The Trane Company has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.

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