

# Agility® Magnetic Bearing Centrifugal Chiller

## Model HDWA (175 - 500 Tons; 60 Hz)

Compact Size Without Compromise



Retrofitting HVAC systems in existing buildings often presents the challenge of limited space, leading to potential structural modifications and increased costs.

**The Agility magnetic bearing centrifugal chiller from Trane® is designed to help address these challenges, lowering installation expenses and making it ideal for both existing structures and new construction projects.**

With its innovative design and comprehensive range of benefits, the Agility chiller is a forward-thinking solution for your building's thermal management needs.

### Energy-Efficient Operation

**Efficiency Values.** With full load and Integrated Part Load Values (IPLV) that outperform the ASHRAE® 90.1-2022 standard, the Agility chiller helps reduce electrical consumption and demand charges, contributing to lower operating expenses.

**Guide Vane Position.** The chiller's control logic coordinates the compressor's motor speed and inlet guide vane position to maintain the chilled water setpoint.

**Unloading Performance.** At AHRI conditions, some units can unload down to 10% of design tonnage with constant entering water temperature, delivering efficient performance even at lower loads.

### Performance Backed by Trane

**Oil-Free Compressor Technology.** The Agility chiller features an oil-free, two-stage, semi-hermetic centrifugal compressor with a permanent magnet motor for stable operation across varied conditions. Agility's hybrid adaptive frequency drive helps provide efficient heat rejection, enhancing longevity.

**UPS and Rapid Restart™.** An onboard Uninterruptible Power Supply (UPS) protects components during power interruptions, and Rapid Restart helps bring the chiller online within 45 seconds after power is restored, ramping up to 80% of the chiller's design capacity in under 4 minutes.

**Smart Control and Monitoring.** The Symbio® 800 controller enables secure connectivity and integration with building automation systems. This capability allows real-time monitoring and proactive maintenance, improving performance while reducing costs.



### Space-Saving Design, Cost-Effective Installation

The Agility chiller balances size and efficiency, helping to keep installation costs low.



Fits through standard double doors (72" x 80") fully assembled



Fits through a single door (34" x 80") by easily disassembling into two sections

**Agility's compact design reduces the need for structural modifications — significantly cutting installation time and costs.**

### Reduce Your Environmental Footprint

**Sustainable Innovation.** Our focus on decarbonization has helped advance the industry with the Agility model HDWA's third-party verified Environmental Product Declaration. Agility chillers use low-GWP refrigerant R-513A, offering a 55% reduction in global warming potential compared to R-134a.

**Flexible Design Options.** Available features include harmonic filters, heat recovery, and thermal energy storage for flexible operation to help manage peak demand. These features support building owners in meeting sustainability goals while reducing environmental impact.

Factory-available extended warranties with full coverage up to 10 years offer additional long-term peace of mind. To validate performance, factory testing is available under customer-defined conditions. Additionally, our nationwide service network is available 24/7, providing reliable support whenever you need it.

All Agility Chillers Feature:

**Adaptive Frequency Drive** – Enhances chiller efficiency at reduced loads with the fully integrated variable-speed drive. This advanced drive works with the chiller motor and Symbio® 800 equipment controller to continuously match the compressor speed, providing quieter operation across the chiller's operating map for acoustically sensitive environments.

**Advanced Controls** – The Symbio® 800 controller features pre-programmed sequences of operation to help offer seamless performance. It also enables connectivity with the Tracer® SC+ building automation system for even more system enhancement.

**Uninterruptable Power Supply (UPS)** – The UPS system is designed to provide a reliable power source to the chiller's control system during power interruptions. This allows the chiller to continue operating smoothly and maintain critical cooling functions even during short-term power outages or fluctuations.

**CHIL™ Evaporator Design & High-Efficiency Heat Exchanger** – The CHIL evaporator design enhances refrigerant flow utilizing a carefully engineered bundle to manage vapor flow, a suction duct to control carry over, and a distributor intended to place refrigerant where it is needed.

Unit Configuration		Base Unit Dimensions (Assembled)					
Compressor	Shell Config (EVAP/COND)	Length		Width		Height	
		in	mm	in	mm	in	mm
200	020/020	129.9	3300	67.4	1713	72.2	1833
300	020/020	129.9	3300	67.4	1713	72.2	1833
300	040/040	129.9	3300	70.7	1795	78.0	1981
400	040/040	129.9	3300	70.7	1795	78.0	1981
500	040/040	129.9	3300	70.7	1795	78.0	1981

Available Options & System Enhancements\*

**Comprehensive Chilled-Water System**  
The Agility chiller is a part of the Comprehensive Chilled Water System, which delivers high-performance cooling while reducing initial costs.

**Heat Recovery**  
Some Agility units offer heat recovery up to 130°F (54°C), recapturing heat instead of rejecting it. This provides tight temperature control while lowering costs by reducing boiler/heater usage.

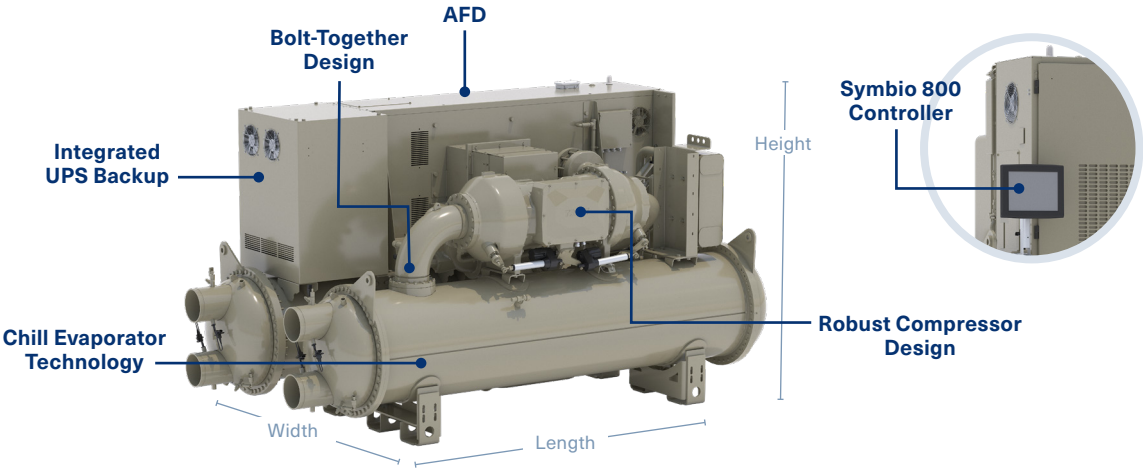
**Thermal Energy Storage (TES)**  
Agility chillers can create ice during off-peak hours, which is stored in modular TES tanks for use in cooling during peak hours the next day.

**Harmonic Filter**  
Improves power quality and efficiency while extending component life. Reduces distortion to meet IEEE 519 standards and decreases equipment interference.

**Belzona Coating**  
Applied to wetted surfaces including waterboxes and tubesheets. Provides uniform coverage with ideal adhesion for long-lasting corrosion protection.

**Marine Waterbox**  
Provides quick access to heat transfer tubes for ease of maintenance. Removable endplate doesn't interfere with water connections, efficiently accessing the shell and interior tubes.

*\*Some available options may vary by unit. Please consult with a Trane representative for specific details.*



To learn more about the comprehensive capabilities of our Agility chiller, visit [Trane.com/Agility](https://Trane.com/Agility) or contact your Trane Account Manager.



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.com](https://trane.com) or [tranetechnologies.com](https://tranetechnologies.com).

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