

INNOVATIVE TECHNOLOGIES

# Walk-in Environmental Test Chamber

**ToronWI-Series**



TORONTECH

## Walk-in Environmental Test Chamber ToronWI-Series

The Walk-in Environmental Test Chamber ToronWI-Series is **built to evaluate and store large components, assemblies, and finished products under precise temperature and humidity control**. It helps ensure products meet strict performance standards across various industries. The chamber supports a wide range of applications, including automotive testing, electronics, pharmaceutical stability studies, packaging, and biological research.

Its customizable configurations allow users to adapt the system to specific sample sizes and testing requirements. The structure is engineered for operational safety, long-term stability, and energy efficiency, even during continuous use. This makes the ToronWI-Series suitable for both extensive product testing and long-term storage. With its reliable performance and flexibility, it meets the needs of manufacturers, research facilities, and quality control labs.





# FEATURES/ADVANTAGES

## » Large Capacity for Full-Scale Testing

Supports full vehicles, large assemblies, and multiple product samples, making it suitable for both comprehensive testing and long-term storage.

## » Wide Range of Industry Applications

Serves automotive, electronics, pharmaceuticals, packaging, solar energy, biological research, and various industrial sectors requiring controlled environments.

## » Customizable Configurations Available

Offers flexible chamber sizes and designs, allowing users to select or customize solutions that match their specific product dimensions and testing needs.

## » Stable, Energy-Efficient Operation

Combines reliable environmental control with optimized energy usage, ensuring stable performance even during continuous or extended testing periods.

## » Durable Structural Design

Built with strong materials and precise engineering to maintain long-term stability, minimize maintenance, and ensure consistent testing conditions.

## » Accurate Environmental Control System

Provides precise temperature and humidity regulation, delivering consistent and repeatable conditions essential for product performance evaluation.

# TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS					
	ToronWI-4	ToronWI-8	ToronWI-10	ToronWI-15	ToronWI-45	ToronWI-55
Test Space Volume (m³)	4	8	10	15	45	55
Inner Chamber Size W × H × D (mm)	2000 × 2000 × 1000	2000 × 2000 × 2000	2040 × 2100 × 2100	2500 × 3000 × 2000	5000 × 3000 × 3000	5000 × 2200 × 5000
Temperature Range	High Temp: 80°C, +120°C Low Temp: -60 °C, -50 °C, -40 °C , -30 °C, -20 °C , -10 °C, 0 °C					
Humidity Range	20% to 98% RH					
Temp. & Humidity Fluctuation	±0.5°C/±2% RH					
Temp. Uniformity	≤ 2.0°C					
Heating Rate	+20°C~ +80°C within 60 min					
Cooling Rate	+20°C~ -55°C, -40°C, -20 °C , -10 °C within 120 or 90 or 60 min					
Exterior Chamber Material	High-quality carbon steel with painting					
Interior Chamber Material	SUS304 matte stainless steel plate					
Insulation Material	Rigid polyurethane foam insulation					
Cooling Mode	Water cooled					
Controller	LCD Touch Screen Controller with PID control					
Safety Protection Device	NFB(No fuse breaker), over pressure, over heat and over current protectors for compressor, over temperature protectors, over load protector of fan, dry heat protector, short of water protector					
Standard Accessory	Sight window*1, Cable port(portΦ100mm), LED Lighting device, Mobile Casters with foot cups					
Ambient Temp.	+5 to +35°C					
Voltage	380V AC 3Ø 50Hz					
Customization Service	Non-standard or special requirements can be customized.					



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