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HUMIDITY CHAMBER AZA1063

The AZA1063 Humidity Chamber from AZALAB is a high-precision environmental testing system engineered for accurate control of temperature and relative humidity under controlled laboratory conditions. It is designed to simulate real-world climatic environments, enabling reliable evaluation of product stability, durability, performance, and shelf life.

Widely used across pharmaceutical, electronics, automotive, textile, food, and materials research industries, the AZA1063 supports stability studies, accelerated aging tests, and environmental stress screening, ensuring compliance with ICH, BIS, and ASTM (ASTM E104) guidelines.

KEY FEATURES

Advanced PID Control System

- Microprocessor-based PID controller ensures precise and stable regulation of temperature and humidity.

High Accuracy Sensors

- Integrated sensors provide real-time monitoring with excellent accuracy and repeatability.

Programmable Operation

- Supports ramp & soak profiles for complex environmental test cycles and regulatory testing.

Uniform Chamber Conditions

- Optimized airflow and humidification system ensure consistent temperature and RH distribution throughout the chamber.





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Construction & Design

Corrosion-Resistant Inner Chamber

- Fabricated from SS 304 / SS 316 stainless steel for durability and easy maintenance.

Robust Outer Body

- Powder-coated mild steel or stainless steel construction for mechanical strength and longevity.

High-Efficiency Insulation

- High-density PUF insulation minimizes heat and moisture loss, ensuring energy efficiency and stability.

Efficient Refrigeration System

- Equipped with a hermetically sealed compressor using eco-friendly refrigerant for reliable cooling performance.

User Interface & Safety

User-Friendly Digital Interface

- LED / LCD display for temperature and humidity
- Easy parameter setting and monitoring

Optional Automation & Connectivity

- PLC-based control (optional)
- Data logging with USB / RS-232 interface

Comprehensive Safety Systems

- Over-temperature protection
- Low water level alarm
- Compressor overload protection
- Independent high-limit cut-off
- MCB protection



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TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AZA1063
Temperature Range	Ambient +5°C to +60°C / +70°C (configurable)
Humidity Range	20% RH to 98% RH (typically 30%–95% RH)
Temperature Accuracy	±0.5°C to ±1°C
Humidity Accuracy	±3% RH to ±5% RH
Temperature Uniformity	±1°C to ±2°C
Humidity Uniformity	±3% RH to ±5% RH
Inner Chamber	Stainless Steel (SS 304 / SS 316)
Outer Body	Powder-coated Mild Steel / Stainless Steel
Insulation	High-density PUF



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TECHNICAL SPECIFICATIONS

Parameter	Specification
Controller	Microprocessor-based PID (Programmable optional)
Humidification System	Steam injection / Ultrasonic
Refrigeration System	Hermetically sealed compressor (eco-friendly refrigerant)
Display	Digital LED / LCD (Temp & RH)
Shelves	Adjustable SS wire mesh shelves
Safety Features	Over-temp cut-off, low water alarm, compressor protection
Power Supply	230 V AC, 50 Hz, Single Phase

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