

# Fabric Water Vapor Permeability Tester

This water vapor permeability testing apparatus is designed for determining the impermeability, water vapor permeability, and air permeability of fabrics. It is particularly suitable for testing sportswear, including skiing and mountaineering apparel.



## Product Overview

### Professional Water Vapor Permeability Testing

This advanced environmental testing apparatus is designed to determine the water vapor permeability, air permeability, and general moisture transmission properties of specialized fabrics. It is an ideal solution for testing materials used in high-performance sportswear, such as skiing and mountaineering gear, as well as various packaging materials. By simulating real-world conditions with controlled temperature, humidity, and airflow, it provides precise, reproducible data essential for quality assurance and textile research.

## Standards & Compliance

Industry Standards	JIS L1099, ASTM E96/E96M, GB/T 12704
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## Performance Metrics

### Performance Specifications

**20 °C**

Minimum Temperature

**60 °C**

Maximum Temperature

**40 %**

Minimum Humidity

**95 %**

Maximum Humidity

**1.5 m/s**

Max Wind Speed

## Technical Specifications

### System Components

- Freezer: Air-cooled airtight compressor
- Cooler: Finned type
- Humidifier: Pot-type with vacuum firing guard
- Heater: Finned radiator with over-limit guard
- Fan System: 2 sets (upper and lower)
- Rotary Stand: 2 sections (270mm)

## Dimensions & Power

### Equipment Dimensions

Dimension Type	Measurement
Internal (W x D x H)	400 x 360 x 500 mm
External (W x D x H)	1100 x 550 x 1470 mm
Power Source	AC 220V 50Hz

## Accuracy

### System Precision

- Temperature Accuracy:  $\pm 0.5$  °C (no load)
- Humidity Accuracy:  $\pm 3\%$  (no load)