

Door and Window Insulation Performance Tester

This tester determines the heat transfer coefficient and anti-condensation factor of external doors and windows. It assesses insulation properties of building components and similar industrial parts.



Overview

Professional Insulation Performance Testing

This advanced testing system is designed to determine the heat transfer coefficient and anti-condensation factors for building components, including doors, windows, walls, ceilings, and floors. Utilizing a calibrated hot box method, it accurately assesses thermal insulation properties to support energy efficiency and quality control in construction. The system features automated data collection, curve generation, and reporting capabilities, ensuring reliable and repeatable measurements compliant with international standards.

Standards & Compliance

Compliance Standards	GB/T 8484-2008, GB/T 13475-2008
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Door & Window Testing Specs

Test Efficiency Metrics

10 hours/pc

Intermittent Test Time

9 hours/pc

Continuous Test Time

Temperature Control Range

Chamber	Range
Hot Room	10 ~ 50
Cold Room	-22 ~ -10

Power Requirements	AC 380V, 3-phase 5-wire, d 9kW
System Dimensions	3900mm x 2700mm x 3500mm (Cold room height: 3500mm, Hot room height: 3150mm)
Max Specimen Size	1800mm x 2400mm

Wall Testing Specs

Heating & Power

- Hot box max heating power: 0.5KW
- Auxiliary heating: 6KW (380V)
- Refrigeration unit: 2.5KW (380V)

Wall Specimen Capacity	1880mm x 400mm x 2000mm
Min Thermal Resistance	0.1 (m ² ·K)/W

System Features

Automation Capabilities

- Automated equipment operation
- Automatic detection and data collection
- Real-time test curve display
- Automated test report generation

Control System

Omron PLC