

# E3628 Cooling Energy Tester

## 1 Product Description

E3628 is an instrument designed according to ASTM F3628, One click testing of cooling energy and drying time for textiles, Using Sweating Hot Plate, with stable temperature control system and 9 independently controlled sweating pore, Automatic air speed control. Simulate the process of sweat evaporating and taking away energy from the body during human sweating, accurately testing the cooling energy value.



## 2 Technical Specifications

Cool energy range : 0~23.79 kJ  
Repeatability:  $\leq \pm 2\%$   
Resolution: 1J  
Test plate temperature: 35 °C  
Guard ring temperature: 35 °C  
Cooling plate temperature: 34.5 °C  
Temperature control accuracy:  $\pm 0.03$  °C  
Temperature resolution:  $\pm 0.01$  °C  
Air velocity: 2 m / s  
Air velocity accuracy:  $\pm 0.1$  m/s  
Pump volume: 2.2mL/h per pore  
Repeatability:  $\leq \pm 0.02$  mL/h  
Sample thickness: 0~30mm  
Test plate area: 203mm × 203mm  
Guard ring size: 312mm × 312mm  
Guard ring width: 51mm  
Sample size: 320mm\*320mm  
Dimensions: 55× 45× 35cm (L x W x H) (not including Climate Chamber)  
Weight: 45Kg (not including Climate Chamber)  
Host power: AC220V  $\pm 10\%$   
Warranty: 24 Months

## 3 Testing standards

ASTM F3628-24

## 4 Configuration

Standard configuration: Host test unit, a power line, CSHP analysis PC software  
Automatic water tank,

Optional accessories: Climate Chamber, Water purifier.