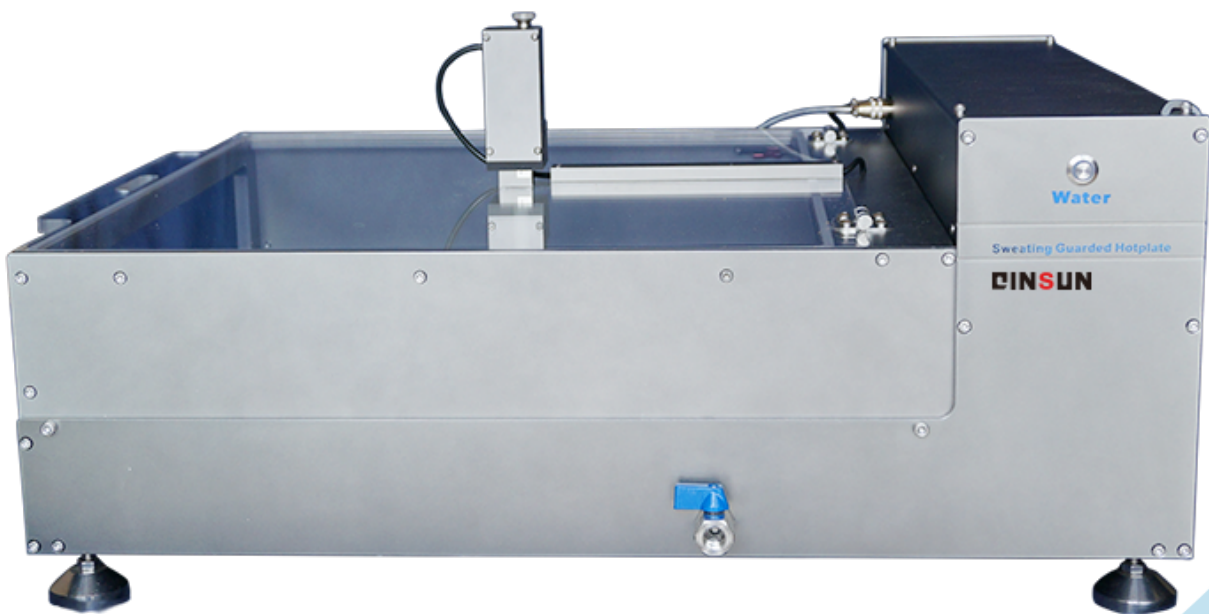


# Standard

Standard Groups (HK) Limited



## Sweating Guarded Hotplate G259A

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## Product Description

G259A Sweating Guarded Hotplate is the most professional, most advanced Thermal and Evaporative Resistance test instrument, simulate the human skin test plate, Automatic water supply system, Wind speed stabilization system, test unit and Climate Chamber completely separated design, Aluminum alloy shell to ensure that won't rust.

### Technical Specifications

(RCT)Thermal resistance range : 0.002-2.0 m <sup>2</sup> K / W	The sample platform lift range :0~50mm automatic lift
Repeatability: $\leq \pm 2\%$	Sample thickness: 0~50mm
Resolution: 0.001m <sup>2</sup> K / W	Test plate area: 254mm × 254mm
(Ret)evaporative Resistance range : 0-1000m <sup>2</sup> Pa / W	Guard ring size: 512mm × 512mm
Repeatability: $\leq \pm 2\%$	Guard ring width: 127mm
Resolution: 1m <sup>2</sup> · Pa / W	Sample size:500mm*500mm
Test plate temperature range: 30 °C ~ 40 °C adjustable	Dimensions: 73×61×35cm (LxWxH) (not including Climate Chamber)
Temperature control accuracy: $\pm 0.03$ °C	Weight: 45Kg (not including Climate Chamber)
Temperature measurement: $\pm 0.01$ °C	Host power: AC220V $\pm 10\%$ , 100W or AC110V $\pm 10\%$ , 100W
Air velocity: 0 ~ 1.2 m / s continuously adjustable	Warranty: 24 Months
Air velocity accuracy: $\pm 1\%$	

## Professional Technology

- 1.The world's first independent design concept, integrated design of control systems and automatic water supply system, users can choose the standard Climate Chamber.
- 2.Automatic water supply, Automatic drain system, Strong feed water system (In the Evaporative Resistance, water uniformly wets test plate faster)
- 3.high-precision automatic platform mobile systems, enter the thickness of the test the test platform to move to the corresponding position.
- 4.According to the thickness of the sample, the machine automatically adjust the PID control parameters, test conditions can quickly reach.
- 5.The patented Air velocity parallel stabilization system, let the Air velocity homogeneous and stable, so that the test results are more stable.
- 6.Air velocity continuously adjustable from 0 ~ 1.2m / s to meet any Thermal and Evaporative resistance testing standards.
- 7.Guard ring width 127mm, to ensure that heat is passed from the test sample.
8. Wifi communication to PC, to make the connection more convenient.

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## Testing standards

GB/T11048

ISO11092

ASTMF1868-09

BS8515

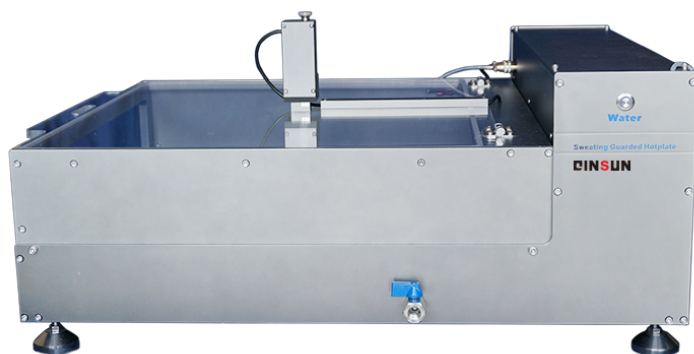
ASTMD1518-2014

JIS L1096-2010

ASTM F 1868-02

## Test Principle

Clothing is often made of materials that impede the flow of heat and moisture from the skin to the environment. Consequently, people may suffer from heat stress or cold stress when wearing clothing in different environmental conditions. Therefore, it is important to quantify the thermal resistance and evaporative resistance of clothing materials and to consider these properties when selecting materials for different clothing applications.



## Application

Measurement of the thermal resistance and the evaporative resistance, under steady-state conditions, of fabrics, films, coatings, foams, and The quilt, including multi-layer assemblies, for use in Clothing production.



## Configuration

### Standard configuration:

host test unit	a power line	LABTest analysis PC software
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### Optional accessories:

Climate Chamber

## Climate Chamber Specifications

Resolution degree: 0.1 °C, 1%, P.I.D Control

Temperature range: 0 °C ~ 100 °C

Humidity range: 20 ~ 98% R.H.

Temperature accuracy:  $\pm 0.5$  °C

Humidity accuracy:  $\pm 2.5\%$  R.H.

Warming Time: 0 °C ~ 100 °C approximately 35 minutes

Cooling Time: 40 °C ~ 20 °C about 40 minutes

Inside t box size: 90x70x80cm

Carton size: 170 × 125 × 189cm

Within the box material: SUS # 304 stainless steel mirror

Carton Material: SUS # 304 stainless steel surface the matte lines hairline treatment

Insulation material: rigid foam

Refrigeration systems: single-stage air-cooled Europe and the United States imported Hermetic compressor, environmentally friendly refrigerants

Protection device: compressor overload protection switch, refrigerant pressure protection switch, ceramic fuse the water dish water protection switch, electromagnetic switch and air burning protection switch, sirens

Weight: about 195kg

Power supply: 3  $\phi$  , AC380V  $\pm 10\%$  50/60Hz





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