



IEC 60335-2-23 Wooden Sphere

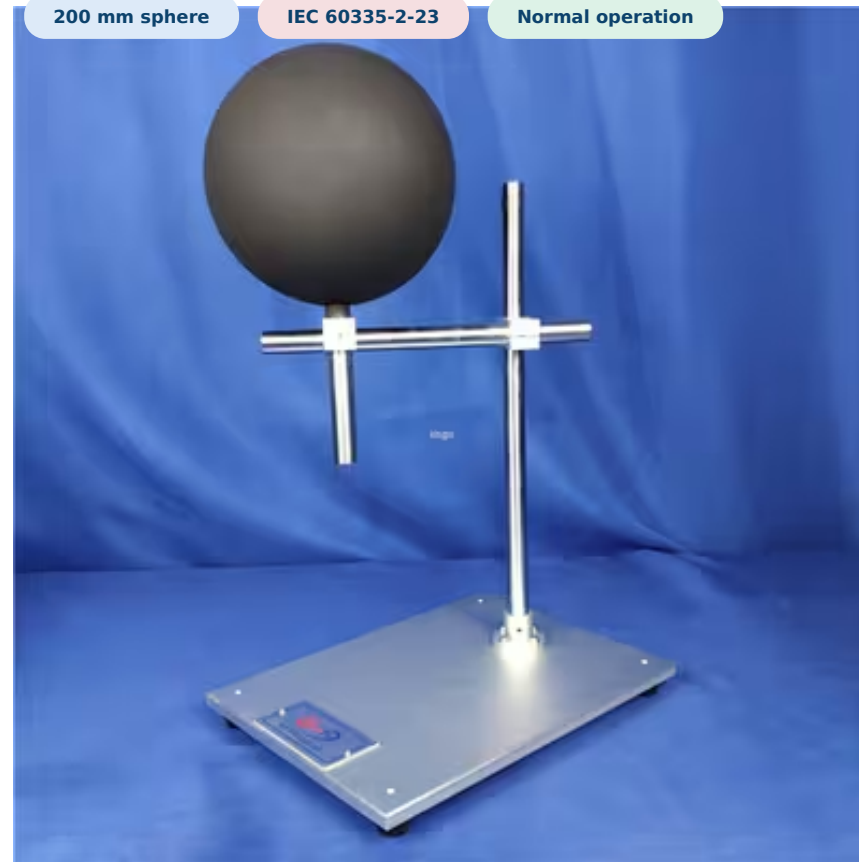
Helmet-Type Hairdryer Test Accessory

A 200 mm dull black-painted wooden sphere used to establish standardized normal operating conditions for helmet-type and flexible-hood hairdryer safety testing.

200 mm sphere

IEC 60335-2-23

Normal operation



STANDARD

2016+A1:2019 / 2026

TEST OBJECT

Helmet-type hairdryers

SIMULATED HEAD

200 mm wooden sphere

PURPOSE

Normal-operation setup

Product Overview and Test Role

A standardized simulated head helps laboratories reproduce the physical relationship between a hairdryer hood, the air outlet and the user.

Standard-oriented use

Supports the helmet-type and flexible-hood normal-operation arrangements described in IEC 60335-2-23.

Standardized head geometry

The 200 mm dull black-painted sphere provides a repeatable physical reference inside the hood.

Repeatable sample positioning

Controlled alignment and distance reduce variation between samples, laboratories and repeated evaluations.

Measurement-system compatible

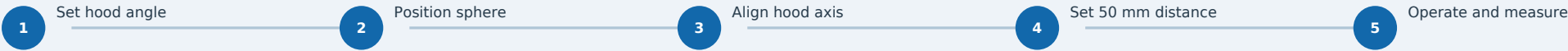
The passive accessory works with existing temperature, power and electrical safety measuring instruments.

200 mm Wooden Sphere



Dull black-painted surface

Typical Test Flow



Technical Specifications

Confirmed product attributes and applicable standard references. The wooden sphere is a passive positioning accessory rather than a measuring instrument.

Product Specifications

Parameter	Specification
Product name	IEC 60335-2-23 Wooden Sphere
Product type	Passive laboratory test accessory
Sphere diameter	200 mm
Material	Wood
Surface finish	Dull black painted
Applicable samples	Helmet-type and flexible-hood hairdryers
Primary purpose	Establish normal operating conditions

Standard Edition Mapping

Edition	Clause	Application
IEC 60335-2-23:2016+A1:2019	3.1.9	Helmet-type and flexible-hood normal operation
IEC 60335-2-23:2026	3.1.9.101	Helmet-type and flexible-hood normal operation

What the sphere does

- Provides a standardized simulated head inside the hood.
- Supports repeatable alignment and positioning.
- Works with separate temperature, power and safety instruments.

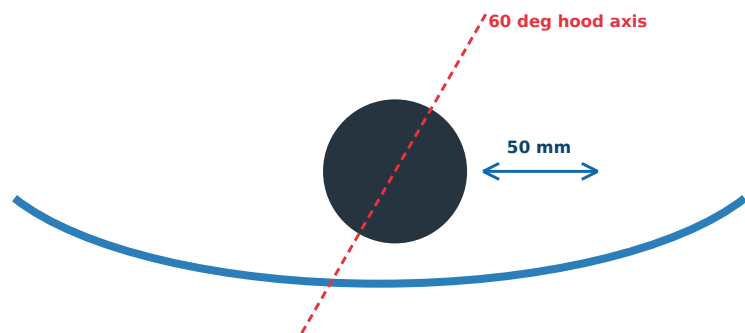
Technical Note

The sphere establishes one physical condition within the overall safety evaluation. Complete conformity assessment also depends on the adopted standard edition, the full laboratory arrangement, measuring instruments and all other applicable requirements of IEC 60335-2-23 and IEC 60335-1.

Hairdryer Test Arrangements

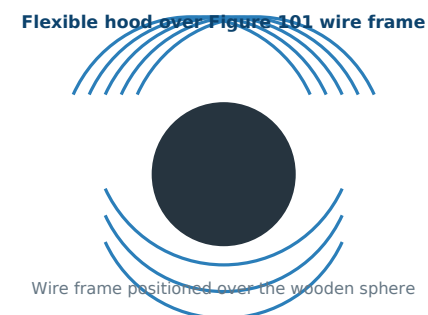
The required setup depends on whether the sample uses a rigid helmet-type hood or a flexible hood attachment.

Rigid Helmet-Type Hood



- Incline the hood axis at 60 degrees, or the maximum angle allowed if less.
- Align the sphere centre with the hood axis.
- Set the shortest sphere-to-air-outlet distance to 50 mm.
- Maintain stable positioning throughout operation.

Flexible Hood Attachment



- Place the flexible hood over the Figure 101 wire frame.
- Position the wire frame over the simulated head sphere.
- Reproduce the normal relationship between the hood and the user.
- Use the complete arrangement with the applicable measuring instruments.

1

Identify hood type

2

Set the geometry

3

Position the sphere

4

Operate the sample

5

Record measurements

Applications, Laboratory Value and Assurance

A simple but standard-specific accessory for product development, quality control and conformity assessment workflows.

Hairdryer manufacturers

Prototype comparison, design verification and preparation for external testing.

Third-party laboratories

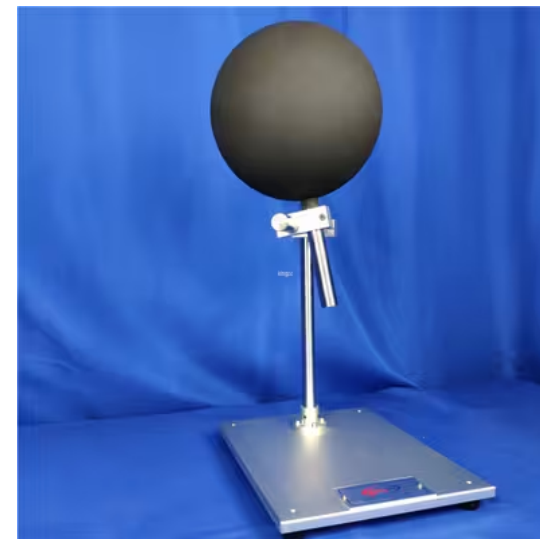
Repeatable sample positioning across different models and test programs.

Certification laboratories

Controlled normal-operation geometry before thermal and electrical evaluations.

Quality control teams

Production comparison and investigation of airflow or temperature changes.



Compliance and Regulatory Assurance

The wooden sphere supports the physical normal-operation arrangement in IEC 60335-2-23:2016+A1:2019 Clause 3.1.9 and IEC 60335-2-23:2026 Clause 3.1.9.101. Final product compliance depends on the complete laboratory setup, measuring instruments, test procedure and adopted standard edition.

Quality documentation

- ISO 9001 quality management documentation
- CE-related documentation
- Product and technical information

Technical Inquiry and Expert Support

Provide the project information below so the applicable standard edition, hairdryer type and laboratory arrangement can be reviewed efficiently.

Information for Technical Review

Applicable standard	2016+A1:2019, 2026 or the relevant national adoption.
Hairdryer type	Rigid helmet-type hood or flexible hood attachment.
Test arrangement	Hood angle, sample position and existing laboratory fixture.
Measurement system	Temperature, power and electrical safety instruments used in the project.
Documentation	Product, quality-system or CE-related documentation required.

Product Page

Scan the QR code for product details.



KingPo Technology Development Limited

Factory Address: No.9 University Road,
Songshan Lake, Dongguan City,
Guangdong Province 523770, China

Tel: +86-769-81627526
Email: sales@kingpo.hk
Website: www.dgkingpo.com