



KI-DISCUSTM3

Containment Measurement Systems

World Leading Technology for testing biological safety cabinets.



Designed to meet the test specification in BS.EN12469:2000 as a method for measuring operator and aperture protection factors in Class I and Class II microbiological safety cabinets.

KI-DISCUS MK3 can also be used for evaluating product protection and cross contamination in class II cabinets. It is suitable for testing hybrid cabinets that may be used for carcinogenic or radiopharmaceutical material. It also has an important role in measuring operator protection factors for fume cupboards.

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KI-DISCUS is a Trade Mark registered in the United Kingdom and other countries. Designed and manufactured in the United Kingdom. In view of our policy of continued improvement, the company reserves the right to change the specification without notice.

THE TEST METHOD

A known number of potassium iodide droplets, generated by a small Melinex disc spinning at 28,000 rpm is used to create an aerosol challenge inside of the cabinet. Centripetal samplers positioned inside the cabinet collect any air escaping from it. These samplers contain filter membranes which, when treated with palladium chloride, indicate the escape of the challenge from the facility and enable operator protection factors to be measured immediately.

For tests in specialised micro-chip assembly plants and in similarly sensitive environments when potassium iodide aerosol challenge may be incompatible, a solution of ammonium iodide in alcohol may be substituted, and the ensuing particles similarly developed in palladium chloride.

DESIGN FEATURES



KI-DISCUS MK2 is designed as a two-section reinforced anti-suffrag glass fibre cabinet/trolley, housing all the equipment and accessories. Each section can be readily lifted from a car and then fitted together to form a rigid trolley, for easy transportation.

- Peristaltic pump dispenses a pulse free precise volume of potassium iodide challenge
- Quiet operation
- Push button controls for: Suction Fan, Aerosol Generator, Peristaltic Feed Pump and Electronic Timer
- Automated control ensures uniformity of the test and ease of operation



Everything needed for the tests is supplied including a comprehensive handbook, two 500ml bottles of potassium iodide, one 500 ml bottle each of palladium chloride and distilled water, tweezers, petri dishes, vacuum gauge, 100 filters and a x10 magnifying optic with graticule. The standard equipment includes four sampler heads.



EQUIPMENT MAINTENANCE

Maintenance is minimal and is primarily concerned with thorough cleaning of the equipment and all components after use each day. The handbook specifies these procedures.



SPECIFICATIONS

Electrical Supply: 230V 50Hz Single phase

Also available to special order 110V 60Hz.

Dimensions: 47cm W x 36 cm D x 104cm H

Weight: 45 kg - Includes all equipment