

Advanced in vitro exposure systems

VITROCELL® BioAerosol Nebulizing Generator





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For liquids, proteins, bacteria and microorganisms with minimal sample volume and low flow rates

The VITROCELL® BioAerosol generator has been specifically developed and engineered for applications where the test substance must be dosed in smallest quantities.

It works at low flows of e.g. 2-6 l/min. and has a low dead space.

The BioAerosol Nebulizing Generator can be connected to the Isokinetic Distribution System for the uniform transport of the aerosol to the exposure chambers.



Two operation modes

- **Direct feed single mode** where the test substance is dosed by a precision pump (e. g. peristaltic pump). This permits adjustment of the aerosol concentration without altering the airflow rate.
- **Recirculated flow mode** using a small reservoir (standard size 15 ml). The airflow rate can be individually adjusted based on the desired aerosol concentration. This permits adjustment of the aerosol concentration without altering the airflow rate.

BioAerosol Nebulizing Generator in direct feed mode via a peristaltic pump (option)



Small reservoir for recirculated flow mode



BioAerosol Nebulizing Generator can be connected to Isokinetic Distribution System (option)

Features

- Nebulizing clean liquids, solutions and suspensions
- Ideal for proteins, bacteria and microorganisms
- Particle diameter approx. 0.7 to 2.5 µm
- Low flow rates of 2-6 l/min
- Exact dosing via direct feed with optional precision pump
- Distribution system designed for VITROCELL® modules
- Optional drying system

About VITROCELL®

VITROCELL® exclusively concentrates on the developing, producing, installing, training and servicing of advanced *in vitro* exposure systems.

The VITROCELL® Systems' team is driven by their vision for new in-vitro standards through state-of-the-art technology, highly qualified workmanship and absolute client dedication. VITROCELL® has successfully collaborated with clients from leading research institutes, contract research organizations, regulatory authorities or industrial laboratories across the world. Working with our team experts, all modules have been tailored to create durable and complete turnkey-systems for *in vitro* inhalation toxicology. Gases, environmental atmospheres, nano particles and complex mixtures are analyzed on lung cells at the air/liquid interface using these systems. VITROCELL® technologies are also applicable to solutions for skin research.

Over a decade of devotion to research in this specific field has given our team of design & precision manufacturing specialists the opportunity to mentor highly diversified and complex projects **from conception to completion**. We strive to become a constructive member of each research team, providing support when it is needed, advice when it is required and modules of the highest quality, which are even polished by hand before leaving here to be integrated into your workspace. Every piece of our German engineered equipment is manufactured to the highest of standards – yours.

For more information
please scan the QR-Code:



VITROCELL® Systems GmbH
Fabrik Sonntag 3
79183 Waldkirch
Germany

Tel. +49 7681 497 79-50
Fax +49 7681 497 79-79
Email: info@vitrocell.com
www.vitrocell.com

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