Advanced in vitro exposure systems

VITROCELL®
4-Jet BioAerosol Generator

VITROCELL® SYSTEMS

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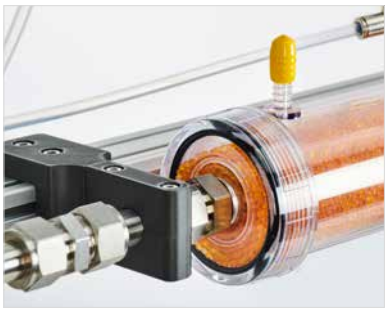
For liquids, proteins, bacteria, microorganisms with minimal sample volume and low flow rates

4-Jet BioAerosol Nebulizing Generator

The VITROCELL® 4-Jet BioAerosol Generator has been specifically developed and engineered for applications where the test substance must be dosed in smallest quantities. This is performed using a peristaltic pump.

It works at low air flows of e. g. 0.4 - 4 l/min. and has a small dead space. The aerosol concentration can be adjusted by either adjusting the liquid flow rate, changing the air flow rate or by adding the integrated dilution system.

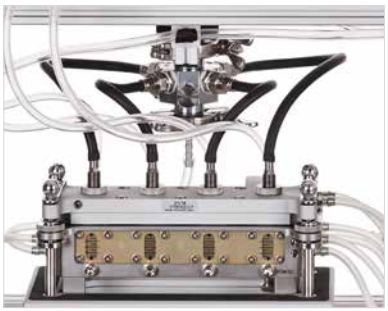
The 4-Jet BioAerosol Nebulizing Generator can be connected to the VITROCELL® Isokinetic Distribution System for the uniform transport of the aerosol to the exposure chambers.



Diffusion Dryer (option)

Features

- Nebulizing clean liquids, solutions and suspensions
- Ideal for proteins, bacteria, microorganisms or pharmaceutical compounds
- Particle diameter approx. 0.7 to 2.5 µm
- Low air flow rates of 0.4 – 4 l/min
- Exact liquid dosing via precision pump (feed rate 0.1 – 6 ml/min)
- Integrated Dilution System
- Optional diffusion drying system
- Easy cleaning



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

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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.

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