

Advanced in vitro exposure systems



VITROCELL® Essentials

Simplifying in vitro exposures with essential functionality.

Welcome to the world of VITROCELL® Essentials - where simplicity meets functionality. Our Essentials line is attentively designed for those who value streamlined efficiency and essential features driven by VITROCELL's proven technology.

Perfect for budget-conscious customers, this product line offers reliable performance without the complexity and cost of our more sophisticated offerings.

Integrated Dilution and Distribution System

This fully integrated system enables the generation of varied aerosol concentrations and ensures even distribution across all exposed cell culture inserts.

Versatile Compatibility

Supports both 12 and 24 well sized inserts from numerous brands, enhancing its utility across different experimental setups.

Premium Build

Diamond finish inlets paired with the highest grade autoclavable stainless steel construct for unmatched durability and ease of maintenance.

Optimal Control

The module maintains precise temperature control via a heated water bath, ensuring a stable environment.

Efficient Operation

Features a fixed inlet distance and an easy closing mechanism coupled with optimized sealing technology for enhanced operational efficiency.

Maintenance Simplicity

Designed for easy installation, quick setup, and fast cleaning.

Universal Exposure Module

12 and 24 well sized inserts



Flexible Use

Offers 3 sham and 3 exposure positions, allowing for a diverse range of applications.

Humidification System

The humidification system provides a stable delivery of humidified dilution air.

Service and Support

Optional yearly „no worries“ V-CARE Support package

Cost-Effectiveness

Outstanding price/performance ratio makes the VITROCELL® Essentials Exposure Module an ideal choice for labs seeking both quality and value.

Lowered Entry Barrier

This device significantly lowers the entry barrier into the air-liquid interface exposure world, making advanced scientific methods more accessible than ever.

Media Cover

Specifically designed for 12 and 24 well sized inserts to protect and maintain the integrity of your samples.

User-Friendly Design

Simplifies the processes of cleaning, setup, and sample handling, saving time and enhancing lab efficiency.



Product Line Comparison		
Feature	Flow 4	Essentials
6 well sized inserts	✓	–
12 well sized inserts	✓	✓
24 well sized inserts	✓	✓
Ames 35 mm Petri dishes	✓	–
Microbalance (optional)	✓	–
Heating method	electronically	waterbath
Exposure positions	4	3
Clean Air positions	4	3
Compatible with Isokinetic sampling	✓	–
Easy closing mechanism	✓	✓
Fixed Inlet distance	✓	✓
Humidification system	✓	✓
Media Cover (optional)	✓	✓
In situ humidity sensor (optional)	✓	–
Integration into VC Monitor Software	✓	–
Thermophoresis (optional)	✓	–
Removable media compartments	✓	–

Commitment to Innovation

The VITROCELL® Essentials Exposure Module stands as an example of innovation, designed to meet the highest demands of our customers from the scientific community. With its convincing design and comprehensive feature set, it is an essential tool for achieving precise and reproducible results in various experimental scenarios.

Key Features:

- Compact and efficient design
- Cost effective solution
- Fully integrated dilution and distribution system
- Supports 12 and 24 well sized inserts of various brands
- Diamond finish inlets
- Media cover for 12 and 24 well sized inserts
- 3 positions sham, 3 positions exposure
- Easy installation and setup
- Fast and easy cleaning
- Autoclavability, highest grade stainless steel
- Temperature maintained via waterbath
- Humidification of dilution and sham control air
- Pre-set inlet for optimal distance
- Easy closing mechanism
- Optimized sealing technology

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:



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