

# Advanced in vitro exposure systems

VITROCELL® Skin Autosampler



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For automated, highly reproducible sampling of receptor fluid

The VITROCELL® Skin Autosampler enables precise receptor-fluid sampling at programmable intervals.

Once you have set up your VITROCELL® Skin module with skin samples, it is fully automated to deliver bubble-free samples in cooled vials. Thus, offering

you an indispensable tool for lab automation.

The VITROCELL® Skin Autosampler enables you to take precise samples

from the receptor fluid in individually programmable intervals. This makes the autosampler a powerful device for toxicokinetic studies.



All functions are edited via an intuitively designed touch panel.



1 | Receptor fluid is stored in glass bottles and can be supplied gravimetrically or by syringe to the VITROCELL® Skin Exposure Module.



3 | A linear arrangement of up to 8 stepper-motor controlled individual syringes ensures precise sampling and highly reproducible results.



2 | The VITROCELL® Skin Exposure Module has an 8 chamber capacity and an integrated water bath heating circuit (e. g. 32-34 °C). Magnetic stirrers enable receptor-fluid agitation at variable rates.



4 | The samples are delivered to an arrangement of 10 vial magazines each containing 8 vials. The magazines can be cooled (e. g. 5 °C).



Exposure Systems



Dose Supply



Dilution



Racks & Carts



Dose Monitoring



Skin Exposure



Auxiliary Equipment

## Features

- Automated, time-based sampling from up to 8 individual exposure chambers
- Ideal tool for toxicokinetic studies
- High reproducibility of results
- Programmable sample volume 0.1 – 1.0 ml
- Freely programmable sampling intervals
- Suitable for VITROCELL® Skin and VITROCELL® Skin Max Modules
- Exposure module made of high-quality stainless steel with an integrated heating circuit
- Integrated magnetic stirrers
- 10 cooled vial magazines for up to 8 vials (1.5 ml)
- Bubble-free automated delivery of fresh receptor fluid with high reproducibility
- Possibility to integrate impedance measurements

## Technical Data

Dimensions:	886 x 672 x 684 mm (W x D x H)
Weight:	150 kg
Voltage:	1 x 230 V, 50/60 Hz
Rated current:	6 A

## Auxiliary Equipment



Magnetic stirrer set incl. control unit



Cooling liquid device



Heating liquid device

## 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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