

# Advanced in vitro exposure systems

VITROCELL® Skin

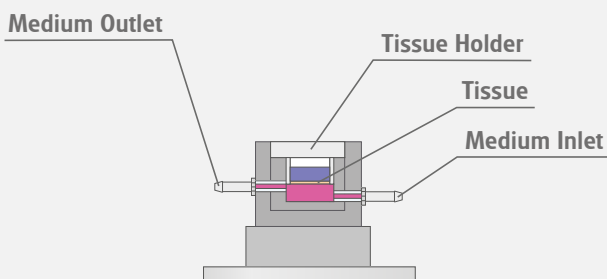


## VITROCELL® Skin

### For the exposure of tissue to liquids and the analysis of volatile compounds

The VITROCELL® Skin module is a unique system for the exposure of tissue to liquids and volatile compounds. It has a 6-chamber capacity.

The base module and optional exposure tops are made of high-quality stainless steel. The unique tissue holders have been specifically designed to enable tight and reliable skin fixation. This module is a legitimate and superior alternative to Franz cells.

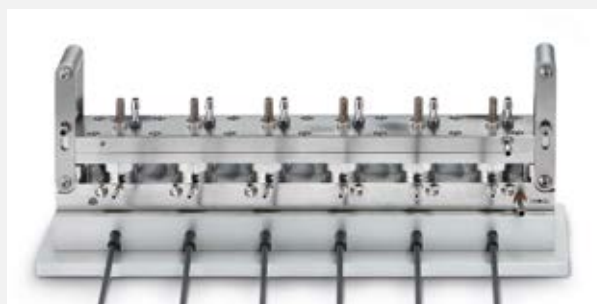


Exposure Surface: 1 cm<sup>2</sup>  
Receptor Medium Volume: 2,5 ml or 5,0 ml



#### Base module including cover unit

The standard volume for the receptor fluid is 2.5 or 5.0 ml. The receptor fluid can be manually or automatically sampled by means of the VITROCELL® Skin Autosampler syringes. The module has a magnetic stirring capability for each individual compartment. The cover domes ensure a reduction in evaporation.

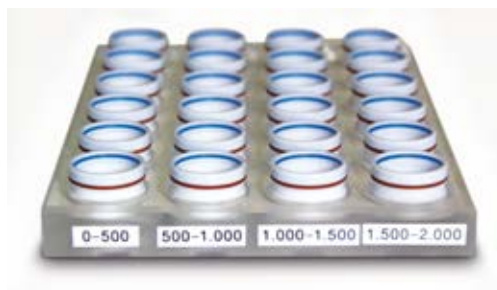


#### Base module including exposure top

The aerosol exposure top enables either a continuous or time-dependent exposure of the sample to gases, aerosols or complex mixtures.



Tissue holder with extraction tool



The system is provided with a full set of holder counterparts.

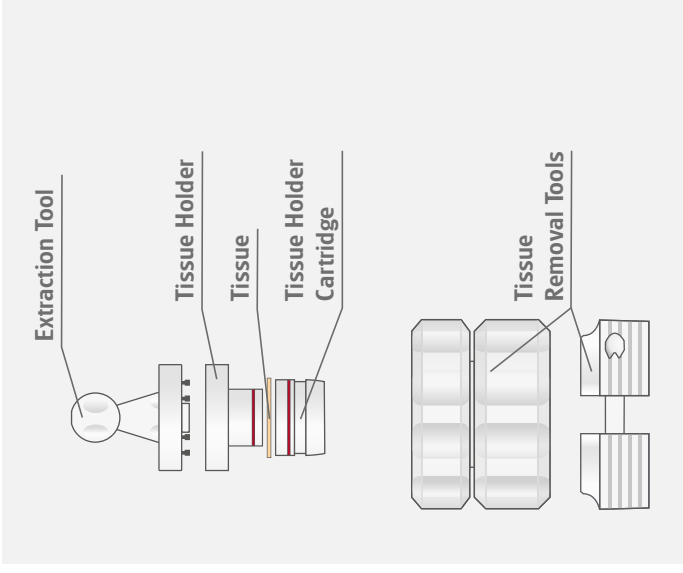
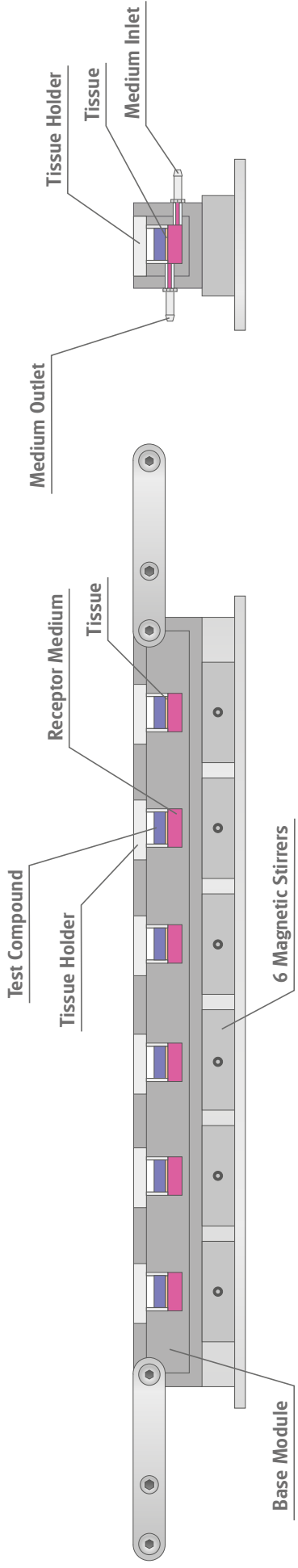
Thickness ranges:

- 500 µm
- 500 - 1.000 µm
- 1.000 - 1.500 µm
- 1.500 - 2.000 µm

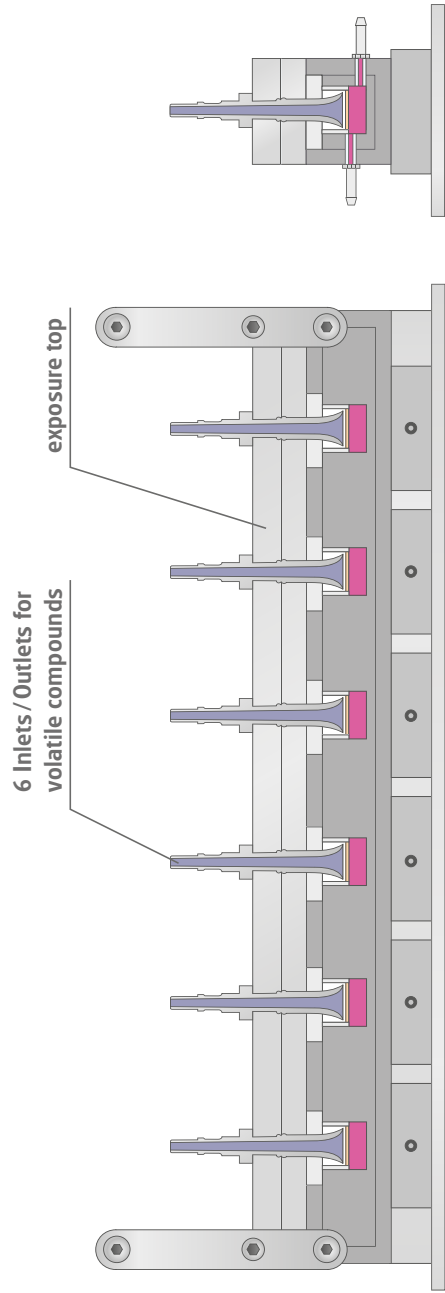
## Features

- Durable and long lasting design
- Unique tissue holder
- Permanent or static medium supply
- Integrated water bath heating circuit
- Suitable for diverse tissue thicknesses up to 2.000 µm
- Option: exposure top for the analysis of volatile compounds
- Option: magnetic stirrers

## Exposure to liquids



## Analysis of volatile compounds



## 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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