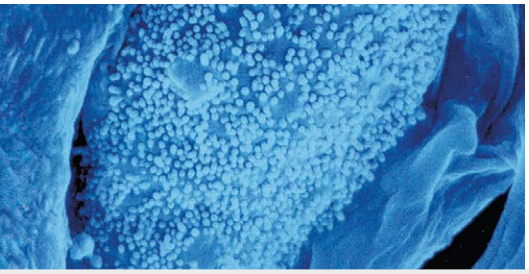
Advanced in vitro exposure systems

VITROCELL® Vacuum Pump



VITROCELL® SYSTEMS

VITROCELL®
Vacuum Pump

Introduction

All VITROCELL® cultivation and exposure modules receive the test atmosphere by negative pressure at low flow rates.

The negative pressure is taken from the in-house vacuum line or – if this is not available – by using a vacuum pump.

The minimum performance of the vacuum source should be 2.0 m^3/hour (35 cf/h).

The vacuum pump is connected to the vacuum distribution lines delivered with each VITROCELL® installation.

Vacuum Pump

The vacuum diaphragm pumps supplied by VITROCELL® have been developed and manufactured to be chemically resistant. Thus, they are suitable for aggressive or corrosive gases and vapors alike.

The dry-running devices are specifically developed for laboratory applications and are maintenance-free. The pump exhaust line must be guided to a laboratory hood for proper extraction.

Damping Unit for Vacuum Pump

High-end solution which was specially developed by VITROCELL® for a vibration-free operation in the lab environment. It is highly recommended when the vacuum pump is located close to the exposure module, e.g. in the same extraction hood.

Features

- **Compatible with all vapors and condensations**
- **Chemically-resistant**
- **Suitable for highly aggressive or corrosive gases**
- **Maintenance-free**

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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