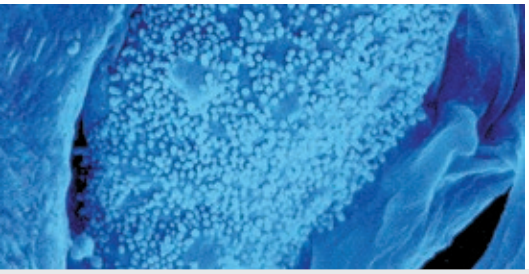
# Advanced in vitro exposure systems

## VITROCELL® Abrasive Dust Generator



VITROCELL® SYSTEMS

# VITROCELL® Abrasive Dust Generator

## For the generation of aerosols from grinding, cutting or other abrasive processes

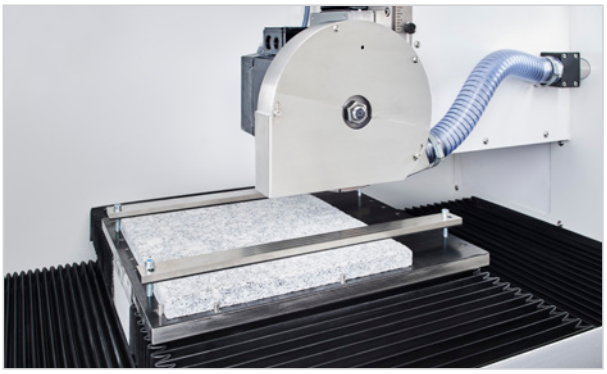

Abrasive Dust Generator incl. housing and control panel

**The VITROCELL® Abrasive Dust Generator generates dust particles which occur in grinding, cutting or other abrasive processes.**

Aerosols containing particles from the following materials can be produced to evaluate their impact on human health:

- Synthetic materials
- Metals
- Ceramics
- Glass-fiber reinforced plastics
- Carbon-fiber reinforced plastics

Cutting speed, feed rate and operation mode can be adjusted to generate an aerosol with different concentrations and aerosol properties. The aerosol is directly removed after the cutting process and guided to the exposure system where 1 $m^3$/h of aerosol will be available for further investigation. Depending on feed rate and aerosol concentration the generator is capable of continuous delivery up to 6 h.



**Options for different cutting and grinding tools**

**Computer controlled operation**

## Features

- **Aerosol generation made of cutting process**
- **Automated process**
- **Touch screen display**
- **Isokinetic sampling**
- **Control of cutting speed and feed rate**
- **Treatment of different materials possible**

## Technical Data

| | |
|---|---|
| **Dimensions:** | 1 389 x 800 x 1 742 mm (L x W x H) |
| **Weight:** | 430 kg |
| **Voltage:** | 230 V / 50 Hz, other voltages upon request |
| **Rating:** | 2 000 W |
| **Fuse:** | 16 A |

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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.

**For more information**
**please scan the QR-Code:**

**VITROCELL® Systems GmbH**
**Fabrik Sonntag 3**
**79183 Waldkirch**
**Germany**

Tel. +49 7681 497 79-50
Fax +49 7681 497 79-79
Email: info@vitrocell.com
www.vitrocell.com

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