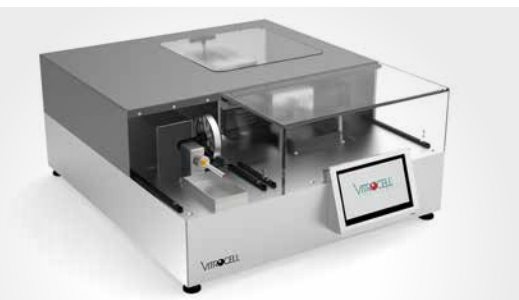


Advanced in vitro exposure systems



Essentials
Vape & Smoke

Essentials Vape & Smoke

Manual Single-Port Smoking Machine



- **Economic solution with essential functionality**
- **For combustion and electronic cigarettes**
- **Freely programmable parameters**
 - Puff Volume
 - Puff Frequency
 - Puff Duration
 - Puff Exhaust Duration
 - Bell and square shaped puff profiles
- **Fully integrated software controls via touch screen**

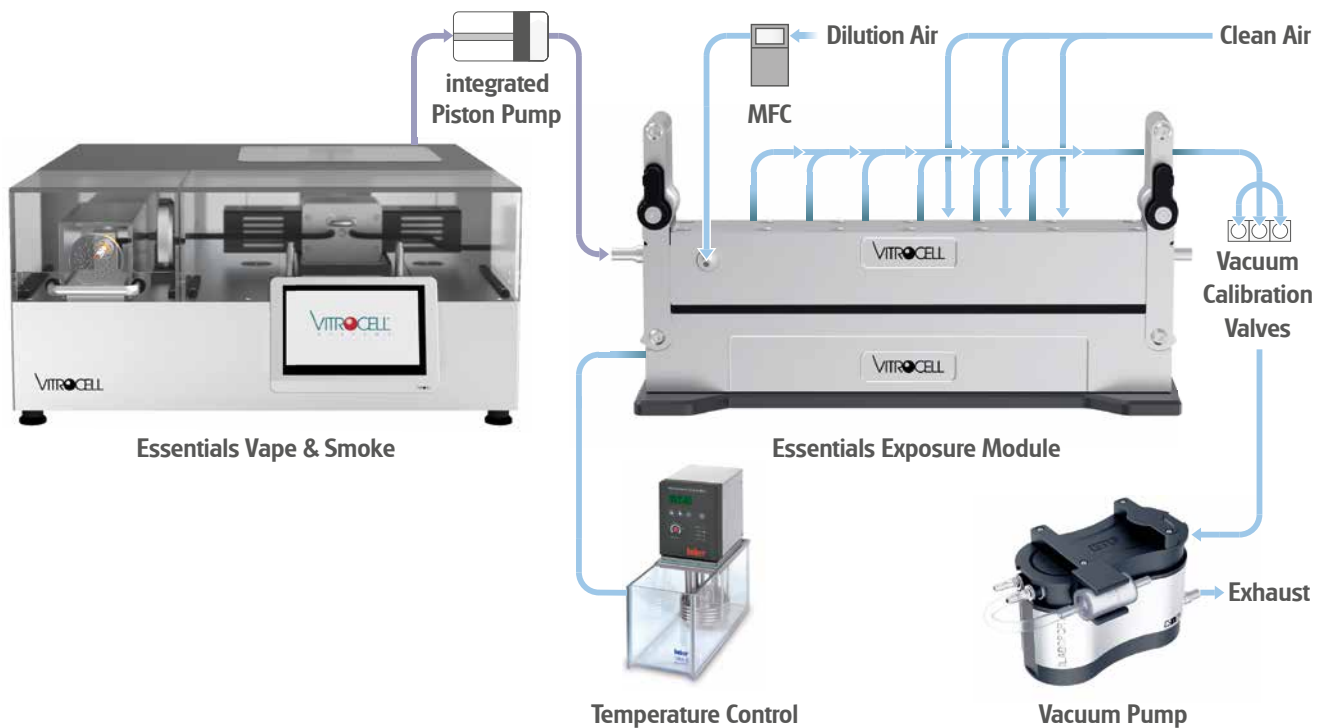


Holder Systems for Combustion Cigarettes, E-Cigarettes, Heated Tobacco Products and Cigars

Secure and tight connection of any puff-actuated device.

Turnkey Installation with Essentials Cell Culture Exposure Module

Available as bundle solution



The Essentials Vape & Smoke bundle is the entry-level package for tobacco an vape research at the air-liquid interface

Bundle features

- Smoking Machine for Combustion & Electronic Cigarettes
- Cell Culture Exposure System for 12- and 24-well sized inserts
- Dilution System
- Humidification
- Designed for easy use and maintenance

More about VC ESSENTIALS Vape & Smoke

- Combinable with all Exposure Systems
- Open and flexible system, allows the addition and integration of analytical equipment
- Optimised for easy and fast cleaning
- Lowest maintenance efforts due to accessible components
- Features Predictive Maintenance
- Stay Updated with V-Care:
 - software updates come to you via USB-Stick
- Adjustable side stream velocity
- Proven and versatile Cigarette Holder System
- Compact design for shortest distances and low dead volume
- Contact-free valve system
- Fully electronically driven, no compressed air supply needed
- Seat for 44 mm and 92 mm Cambrige filter pad holder



Essentials Vape & Smoke Technical Data:

- **Benchtop footprint:**
- 600 mm ≈ 24" width
 - 710 mm ≈ 28" depth
 - 290 mm ≈ 11" height
- **Voltage:** 1 x 230 V, 50/60 Hz, 4 A
- **Compressed air:** not necessary
- **Remote service module:** Update via USB



Features:

- Smoking Machine for Combustion & Electronic Cigarettes
- Cell Culture Exposure System for 12- and 24-well sized inserts
- Dilution System
- Humidification
- Designed for easy use and maintenance

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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