# **Technical Data Sheet:**

CULTEX® EDD
Electrostatic Deposition Device





The innovative CULTEX® EDD is a modular designed electrical deposition device to increase the deposition efficiency for micro- and nanosized particles. In combination with the CULTEX® RFS or the CULTEX® RFS Compact, the CULTEX® EDD is applicable for a variety of cell culture inserts or even Petri dishes. The special design allows easy handling and cleaning and ensures reproducible results even with different aerosols and test substances.

The control unit guarantees a smooth operation of the device, avoiding damage to the cells during exposure. The strength of the electric field can be accurately controlled and adjusted.





# **General features**

- Enhancement for CULTEX® RFS and CULTEX® RFS Compact
- Higher particle deposition rate
- · Less atmosphere required
- Applicable for 6.5, 12 and 24 mm cell culture inserts as well as for 35 mm Petri dishes
- · Easy handling and cleaning
- · No negative influence on cell viability
- CE safety conformity (EN 61010-1:2001)
- CE EMC conformity (EN 61000-6-2, EN 61000-6-3)

#### **Application areas**

- Nano-sized powders
- · Workplace atmospheres
- Tobacco smoke
- Pharmaceuticals

#### Clients

- Universities
- Public health institutions
- Military
- · Pharmaceutical, chemical and tobacco industry
- · Contract research laboratories

## **System information**

### Modular design

- Flow-through corona charger (on top of the aerosol guiding module of the CULTEX® RFS or CULTEX® RFS Compact)
- Precipitator unit (integrated in socket module of the CULTEX® RFS or CULTEX® RFS Compact)
- · Control unit (separate)

### Basic requirements

Power supply (100–240 V)

### Deposition efficiency of 0.1 µm particles

- By sedimentation 0.1%
- By diffusion 1.8%
- With CULTEX® EDD (charged particles) 100%



#### Contact us

Cultex\* Technology GmbH · Feodor-Lynen-Straße 35 · 30625 Hannover · Germany · Phone: +49 (0)511 80687579 · www.cultex-technology.com · info@cultex-technology.com · Our products are subject to continuous development and we reserve the right to amend specifications without notice.

© 2018 Cultex\* Technology GmbH. All rights reserved. Version 2.0 | Design by ahlersheinel.com

The Airborne Exposure Experts