

# CD 2000 Type A



Bipolar discharge unit with lower mixed air flow

## Description

The CD 2000 type A bipolar discharge unit is used with a mixed air flow of 2 – 18 m<sup>3</sup>/h with a tube diameter on the aerosol inlet of  $\varnothing_i = 6$  mm and  $\varnothing_a = 8$  mm.

# CD 2000 Type A



## Benefits

- No operation license required for radioactive instruments
- Bipolar discharge through negative and positive ions
- Applicable for solid and liquid aerosols
- Robust design
- Simple operation
- Reliable function
- Low maintenance
- Reduces your operating expenses

## Datasheet

Parameter	Description
<b>Power consumption</b>	50 W
<b>Power supply</b>	115 - 230 V, 50 - 60 Hz
<b>Reported data</b>	Voltage: 0 - 6,000 V $\hat{=}$ 0 - 10 V, power: 0 - 1,000 $\mu$ A $\hat{=}$ 0 - 10 V
<b>Aerosol outlet connection</b>	Aerosol and fed mixed air, $\varnothing_{\text{inside}} = 12$ mm, $\varnothing_{\text{outside}} = 16$ mm
<b>Special features</b>	Positive and negative high voltages are provided by two independent power supplies, maximum voltage: $\pm 6,000$ V, maximum power: $\pm 1,000$ $\mu$ A
<b>Volume flow (suction flow)</b>	0 - 4 m <sup>3</sup> /h
<b>Mixed air connection</b>	Cleaned pressurized air, type A: $\varnothing_{\text{inside}} = 6$ mm, $\varnothing_{\text{outside}} = 8$ mm, type B: $\varnothing_{\text{inside}} = 13$ mm
<b>Operation principle</b>	Ionization with corona
<b>Mains fuse</b>	F 3,15 A, 250 V
<b>Volume flow (mixed air)</b>	Type A: for 2 - 18 m <sup>3</sup> /h, type B: for 3 - 36 m <sup>3</sup> /h
<b>Aerosol inlet connection</b>	$\varnothing_{\text{outside}} = 8$ mm, $\varnothing_{\text{inside}} = 6$ mm

## Applications

- Discharge of electrically charged aerosols
- Aerosol research
- Filter testing

**Palas GmbH**  
Partikel- und Lasermesstechnik  
Greschbachstrasse 3 b  
**76229 Karlsruhe**  
Germany

**Managing Partner:**  
Dr.-Ing. Maximilian Weiß  
**Commercial Register:**  
register court: Mannheim  
company registration number: HRB 103813  
USt-Id: DE143585902



**Contact:** E-Mail: [mail@palas.de](mailto:mail@palas.de) Internet: [www.palas.de](http://www.palas.de) Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33