



Bipolar Discharge System

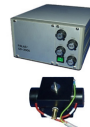
Benefits

- 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

Applications

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

Model Variations



CD 2000 Type A

Bipolar discharge unit with lower mixed air flow

<https://www.palas.de/product/cd2000a>



CD 2000 Type B

Bipolar discharge unit with higher mixed air flow

<https://www.palas.de/product/cd2000b>



<https://www.palas.de/product/cd2000>

Datasheet

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

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 Internet: www.palas.de Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33