



Bipolar Discharge System

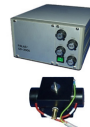
Benefits

- 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

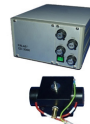
- Discharge of electrically charged aerosols
- Aerosol research
- Filter testing

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