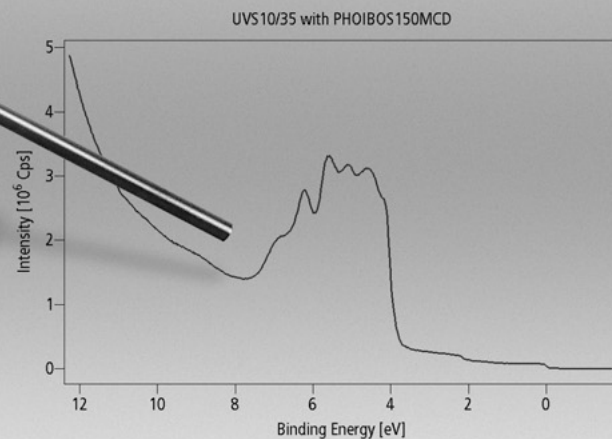
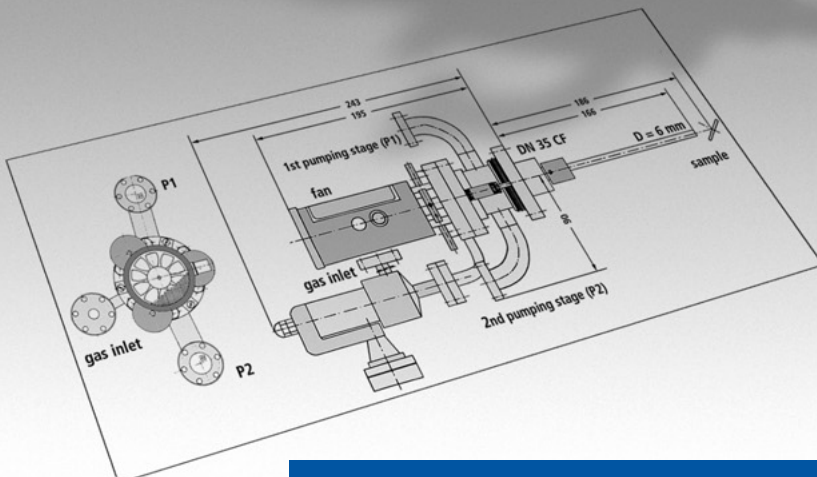
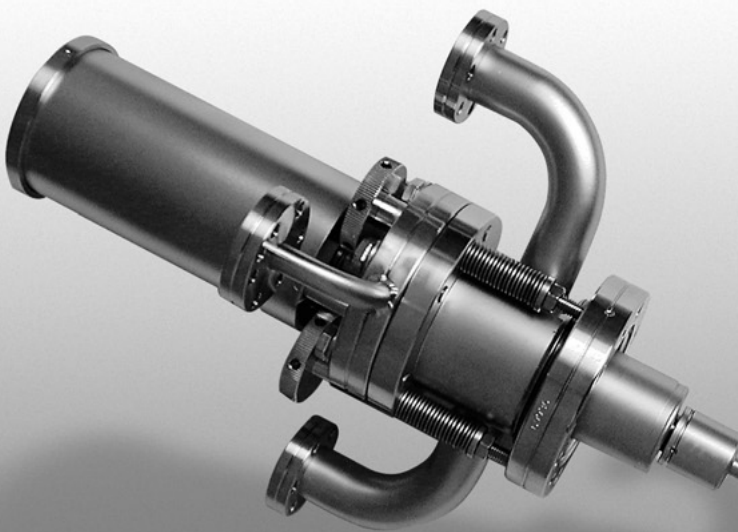


COMPONENTS FOR SURFACE ANALYSIS

# Ultraviolet Source UVS 10/35

- High flux  $> 8 \cdot 10^{15}$  Photons / sr · s
- High photon flux / discharge current ratio
- Small beam divergence  $< \pm 1^\circ$
- Excellent and adjustable He I / He II ratio
- Differential pumping
- Easy operation / ignition
- Stable output



## Ultraviolet Source UVS10/35

For ultraviolet photoelectron spectroscopy on solids (UPS), the high performance Ultraviolet Source UVS 10/35 is ideally suited.

The patented design of the discharge chamber

- **High intensity photocurrent between 15 nA .. 40 nA**
- **Stable output of adjustable ratio of Helium I and Helium II lines**
- **Easy operation / ignition / adjustment**
- **Differential pumping**
- **Mounting flange DN35CF (2.75" OD)**
- **Insertion depth 165.8 mm**
- **Weight 3kg**
- **Bakeable up to 250°C**
- **Optional: leak valve / gas inlet / pumping lines / polarizer**

results in high intensity and it also facilitates easy ignition and extremely stable operation of the discharge.

The UVS 10/35 can be attached to any DN 35 CF flange on an analysis chamber as flange-to-sample distances are not critical.

The source is differentially pumped via the beam guide capillary (two pumping lines). This efficient pumping also ensures a long operating life.

The He I / He II ratio can be controlled by adjusting the pressure of the discharge.

The discharge capillary is air-cooled by a fan. When the fan is removed the source can be baked to 250°C, allowing true UHV operation. Helium is normally used as operating gas but Neon and Argon may also be used.

## Controls



### POWER SUPPLY PS-UVS20-A

- **New electronic concept**
- **Constant voltage / current mode**
- **High thermal and electrical stability**
- **Controls for Voltage and Current and push button for Start**
- **3 1/2 digital panel, two display modes (V or mA)**
- **LEDs for Voltage / Current / Fan Fail and HV Fail**
- **19" (W) x 132 mm (H), 12 kg**
- **100/115/200/230 V, 200VA, 50-60 Hz**

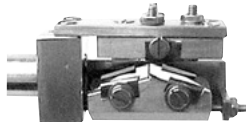
The PS-UVS20-A supplies all voltages and currents needed for the SPECS UVS 10/35 source operation. It consists of a switch mode power unit, an ignition unit and a fan control unit.

The power supply operates in constant voltage or constant current mode. Before ignition the power supply operates in voltage mode.

The source is ignited by simply pressing a push button on the front panel of the power supply.

The power supply also ensures fail safe operation of the UV- source. An interlock circuit turns off the high voltage applied to the source to prevent UV-source damage.

### Optional: Polarizer



for measurements with linear polarized VUV light

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