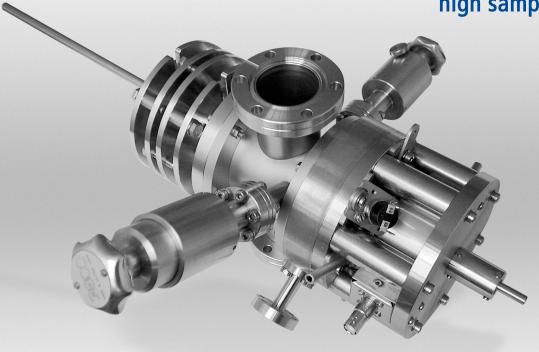
COMPONENTS FOR SURFACE ANALYSIS

# Ultraviolet Source UVS 300

- **■** Duoplasmatron discharge
- High flux >  $2 \cdot 10^{16}$  Photons / sr · s
- Adjustable He I / He II ratio
- **■** Excellent absolute He II intensity
- **■** Single stage differential pumping
- Special capillary option for small spot size < 500µm and high sample current > 500nA



# **Ultraviolet Source UVS 300**

The UVS 300 generates a high density plasma by guiding the electrons extracted from a hot cathode filament along the lines of a strongly inhomogeneous magnetic field towards a small discharge region (duo-plasmatron principle). The strong vacuum ultraviolet radiation is extracted from the cathode side by the combination of a metal and quartz capillary.

Easy use is assured by one stage differential pumping and an integrated microvalve for a filament exchange without affecting the vacuum.

#### **Application:**

Ultraviolet photoelectron spectroscopy (UPS)

#### **Technical Data:**

- High intensity photocurrent > 200nA
- Differential pumping
- Water cooling 0.5bar, 1.5l/min
- Mounting flange DN35CF (2.75"OD)
- Insertion depth 166mm
- Bakeable up to 100°C
- High intensity of atomic and ionic lines, e.g. He II
- Other operational gases and capillaries possible
- Weight 12kg

# **Power Supply**

## **UVS 300-A**

- High thermal and electrical stability
- Constant voltage / current mode
- Interlocks: flow sensor, cathode temperature



- 19"(W) x 182mm(H), 8.7kg
- 100/115/200/230V, 600VA, 50-60Hz

# **Options**

# Special capillary

- Small spot size < 500µm
- High sample current > 500nA

# Monochromator Leak valve

## Gas inlet

SPECS GmbH
Surface Analysis and Computer Technology
Voltastrasse 5
13355 Berlin · GERMANY

Tel.: +49 (0)30 467824-0 Fax: +49 (0)30 4642083 e-mail: support@specs.de http://www.specs.de

#### **Polarizer**

- For measurements with linearly polarized VUV light
- Triple mirror construction
- Polarization degree > 90%
- In situ switchable polarized / nonpolarized

### **Pumping lines**

| Your Lo | cal Re | preser | itative: |
|---------|--------|--------|----------|
|---------|--------|--------|----------|

SPECS reserves the right to alter technical specification without further notice. UVS\_neu (5.11.2007)