



OmniVac

Surface Analysis and Vacuum Technology

Flood Source

FS 100



For charge neutralization of positively charged samples in e.g. XPS/AES or SIMS experiments, OmniVac provides the **FS 100**, an easily handled and reliable Flood Source

■ charge neutralization

■ for XPS, AES, SIMS

■ reliable operation

■ energy range 0 - 500 eV

■ high beam currents

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FS 100 Flood Source

For charge neutralization of positively charged samples like semiconductors or insulators in e.g. XPS/AES or SIMS experiments, OmniVac provides the FS 100, an easily handled and reliable Flood Source.

The FS 100 provides a constant flux of low energy electrons which serve for effective charge neutralization in the region of interest.

The PS-FS 100 power supply allows for easy control of the important working parameters, i.e. electron energy and emission current.

If desired, an RS 232 or Rs 485 can be implemented for remote control operation of the device.



<i>Kinetic energy range</i>	0 - 500 eV
<i>Measured beam currents on sample (grounded, 25 x 25 mm²)</i>	0.1 μ A (at 0.1 eV) 24 μ A (at 1 eV) 130 μ A (at 10 eV) 1500 μ A (at 500 eV)
<i>Beam diameter (FWHM)</i>	11 mm at 500 eV
<i>Bakeable</i>	up to 250°C
<i>Mounting flange</i>	DN 40 CF
<i>Insertion depth</i>	146 mm
<i>Working distance</i>	40 mm

- ▶ reliable operation
- ▶ easy to handle
- ▶ energy range 0 - 500 eV
- ▶ high beam currents

Related products:

IS 100/200/300/400 Ion Source series
XRS 100 X-Ray Source

PS-FS 100 Power Supply

<i>Selectable energy ranges</i>	0 - 10 eV and 0 - 500 eV
<i>Interfaces</i>	Emission and filament current, Wehnelt voltage, energy
<i>Dimension (W x H x D)</i>	19" x 133 mm x 374 mm



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