

## SPM 220

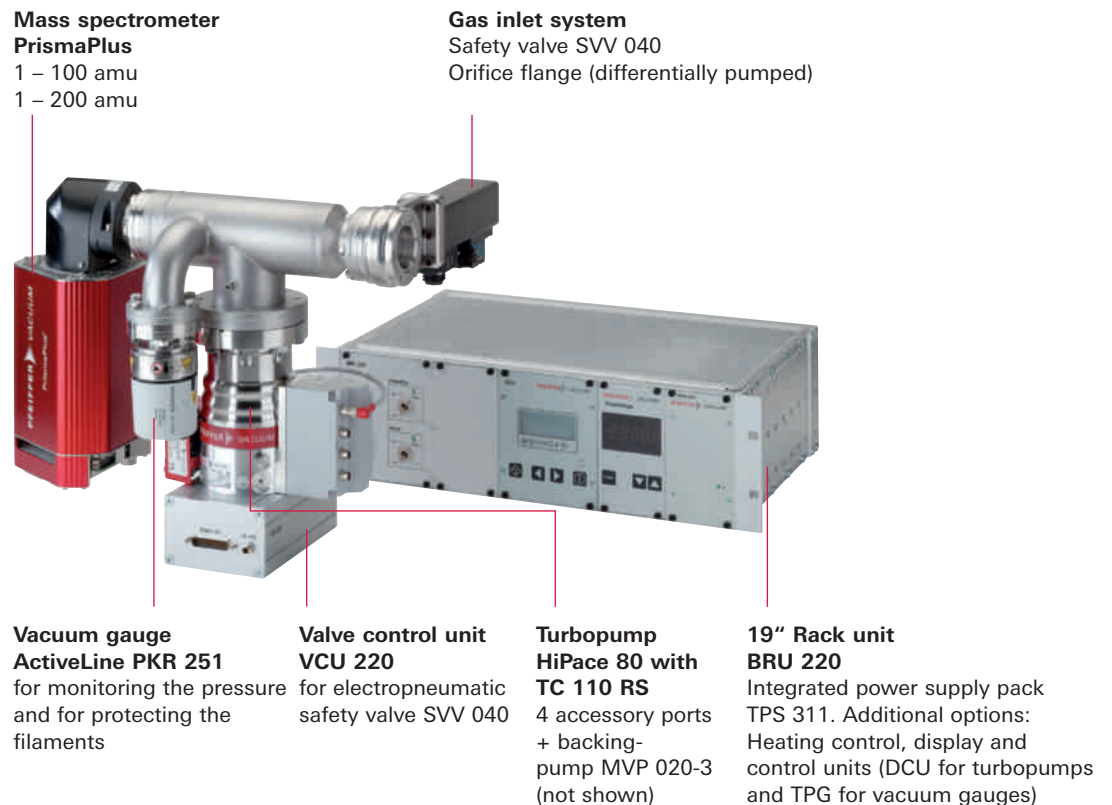
**Sputtering process gas analysis  
in the pressure range of up to 10 mbar**

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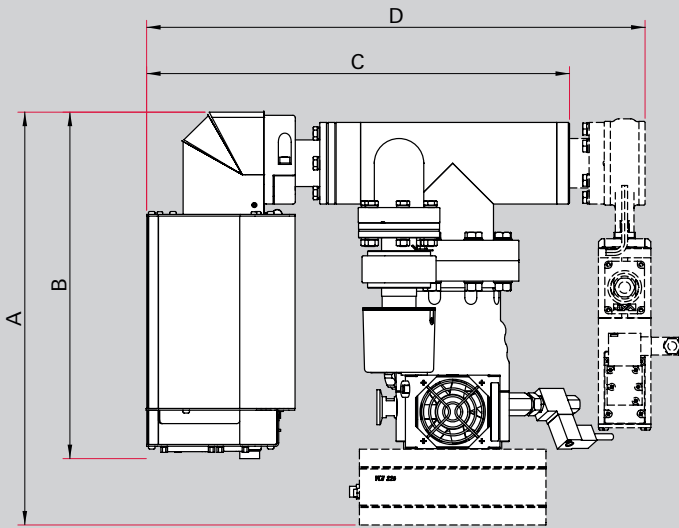
**Advantages at a glance:**

- SPM ion source for instantaneous process monitoring
- Excellent detection limits for H<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>O and CO<sub>2</sub>
- Minimized background influence on the measurement result
- For directly analyzing, monitoring and controlling processes up to a pressure of 10<sup>-2</sup> mbar
- Differentially pumped version for pressures of up to 10 mbar
- Multiplex operation allows data evaluation of several mass spectrometer systems with a single PC
- Compact dimensions for flexible integration
- Easy and flexible system integration through a variety of digital and analog inputs and outputs

**SPM 220 system overview:**



## SPM 220 dimensions



Version	A	B	C	D
without addition	–	290	380	–
with SVV 040 safety valve	350	290	380	416
with a flange with orifice	–	290	380	395

Dimensions in mm

## SPM 220 order matrix

## Order number

PT M 5 a b c d

Mass spectrometer	a
PrismaPlus, 1 – 100 amu	1
PrismaPlus, 1 – 200 amu	2
Ion source and filament	b
SPM ion source, filament: yttriated iridium	3
SPM ion source, filament: tungsten	4
Gas inlet system	c
without	6
Safety valve SVV 040 PM, electropneumatically operated	7
Differentially pumped DN 40 CF flange with orifice for a pressure range of up to 10 mbar	8
Cable length and accessory option	d
3 m, without option	0
3 m, with TPG display and control unit	1
3 m, with DCU display and control unit	2
3 m, with TPG and DCU display and control units	3
10 m, without option	4
10 m, with TPG display and control unit	5
10 m, with DCU display and control unit	6
10 m, with TPG and DCU display and control units	7

## Software support

The SPM 220 is supplied with a user-specific operating software which can be operated intuitively. This package based on Quadera® software contains analysis routines which are specially adapted to the sputtering processes. There are also basic programs available for residual gas analysis and leak detection. In addition Pfeiffer Vacuum provides programming for customer-specific software solutions.

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**Pfeiffer Vacuum GmbH  
Headquarters - Germany  
T +49 6441 802-0  
info@pfeiffer-vacuum.de  
www.pfeiffer-vacuum.com**