



tectura GmbH - Reuterweg 51-53 - 60323 Frankfurt a. Main

J. Heyrovský Institute of Physical Chemistry  
Czech Academy of Sciences  
[Redacted]  
Dolejšková 2155/3  
182 00 PRAGUE 8, LIBEN  
CZECH REPUBLIC

### Order Acknowledgement

<b>Document No</b>	<b>2022-20226</b>
Process Ref.	003917
Date	17.05.2022
Account No	601310
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Please use reference for all inquiries!

#### Deviating Invoicing Address

J. Heyrovský Institute of Physical Chemistry  
of the Czech Academy of Sciences  
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182 00 PRAGUE 8, LIBEN  
CZECH REPUBLIC

<b>Delivery Cond.:</b>	<b>ex works, plus packaging</b>
Shipping Type	DHL
Reference	Quotation 2021-10047
Your Sign	
<b>Your Reference</b>	<b>002220158 13/05/22</b>

Our EU Tax ID	DE114219238
Your EU VAT ID	CZ61388955

Telephone (CP)	[Redacted]
E-mail (CP)	[Redacted]

Wir bedanken uns für Ihre Bestellung und bestätigen wie folgt /  
We thank you for your order and confirm as following:

Pos.	Item No./Description	Dispatch	Quantity UoM	Price per Unit	Total Price
1	<b>GENII-AIHS</b> Atom/Ion Hybrid source	CW 34	1 Pcs	36.415,00	36.415,00

Conventional ECR source. Filament less source allowing applications even with aggressive gasses. May be user configured as broad beam ion source, atom source or atom/ion hybrid. The source performs as an atom source when the grid bias is removed. Ions ( $\mu\text{A}$  range) are added to the beam when the grid bias is applied. Includes one Boron Nitride atom source aperture. Full ion options may be retrofitted on-site by the user at any future time.

- UHV compatible
- Bakeable: 200°C
- Magnetron Power: 250W max at 2.45GHz
- Magnet type: Permanent, water-cooled, bakeable (no need to remove for baking)
- Mounting flange: 4½ inch (NW63CF)
- In vacuum length: 300mm (custom lengths possible)
- Ion current: 20mA (max.). Total beam current - Ion Beam Mode
- Ion energy: 50eV -2000eV
- Beam diameter: ~25mm at source
- Extraction grids: 2 x Molybdenum (parallel, others see options)
- Plasma cup: Al<sub>2</sub>O<sub>3</sub> standard (Boron Nitride as option)
- Gas flow rate: 1 - 10sccm typical (with Ion Beam Mode grids)
- Working Distance: 50mm-300mm. 150mm typical.
- Leak valve CF16, microwave and ion extraction power supplies and cables included

As above but with alternative grids. The source performs as an atom source when the grid bias is removed. Ions ( $\mu\text{A}$  range) are added to the beam when the grid bias is applied. Includes one Boron Nitride atom source aperture. Full ion options may be retrofitted on-site by the user at any future time.  
Customs Tariff Number 90279050

Carryover	36.415,00
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**Handelsregister:**  
Frankfurt/M. HRB 11610  
**Geschäftsführer:**  
Dipl.-Phys. Uwe Hasse  
Charlotte Meissner-Gati

**Bank:**  
Postbank Frankfurt/M.  
IBAN DE74 5001 0060 0620 0146 04  
BIC: PBNKDEFF  
VAT ID: DE114219238

**tectura GmbH**  
Reuterweg 51-53  
D-60323  
Frankfurt/M.  
Germany  
Phone: +49-(0)69-720040  
Fax: +49-(0)69-720400  
info@tectra.de  
www.tectura.de



# tectra GmbH

## Physikalische Instrumente

Order Acknowledgement 2022-20226

Page 2 From 2

Pos.	Item No./Description	Dispatch	Quantity	UoM	Price per Unit	Total Price
2	<b>GENII-BN</b> Immersed filament beam neutralisation including filament and power supply. For use with Ion Beam Mode. [REDACTED] 90279050	CW 34	1	Pcs	4.466,00	4.466,00
3	<b>GENII-IT</b> Ion trap Removes the residual ion current from the beam when the source is being used in atom source mode. Customs Tariff Number 90279050	CW 34	1	Pcs	3.519,00	3.519,00
Subtotal EUR						44.400,00
plus Temporary Market/Material Surcharge						6,50 % of 44.400,00
plus Freight/Packaging						985,00
Subtotal						48.271,00
plus VAT w. tax code						0,00 % of 48.271,00
Final Total EUR						48.271,00

VAT-exempt intra-community deliveries (within the EU) are performed according to sec. 4 Nr. 1 b in conjunction with sec. 6a UStG

**Payment Conditions:**

30Days

w/o discount

48.271,00EUR

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