

SPECS GmbH | Voltastrasse 5 | 13355 Berlin / Germany

J. Heyrovsky Institute of Physical Chemistry

Prague Dolejskova 2155/3 18223 PRAGUE 8 TSCHECHISCHE REPUBLIK Customer Number 102058.002.01

Date 21. July 2017

Your Inquiry/ Order PO 002170125

Order Date 21. July 2017

Your Ref. Project No. 209717

Your VAT No. CZ61388955

Sales

Měřicí technika Morava s.r.o

Contact

Telephone

Fax

E-mail

### **ORDER CONFIRMATION AU170438**

Page 1 / 5

Item	Part No.		Quantity	Unit Price	Net EUR
		OFFER AN170989 / 12.07.2017			
1	0018000100	Multi-Pocket E-beam evaporator EBE-4-2L2F package	1	34.900,00	34.900,00

Four pocket e beam evaporator on NW35CF (2.75") flange with two fixed length holders and two linear motion holders for simultaneous co evaporation of up to four different materials from rods or crucibles. The highly stable digital power supply for the EBE 4 allows independent control of all four pockets. Specifications:

- Easy evaporation of (for example) W, Ta, Mo, C, Pt, Cr, Ti, Fe from rods (2 4 mm diameter) and Ag, Au, Al, Ni from crucibles (0.07 cc)
- If used with rods 25 mm of rod feed available.
- Integral water cooling with fully enclosed filaments: avoids filament to substrate line of sight effects and thermal radiation.
- Rod or crucible replacement by withdrawing the individual holder.
- Easy filament replacement without the need to disassemble the evaporator.

Consisting of:

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Surface Nano Analysis GmbH Voltastrasse 5 13355 Berlin / Germany www.specs.com





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Page 2 / 5

1

1

 Item
 Part No.

 Quantity
 Unit Price

 Net EUR

#### 2011103602

# Electron Beam Evaporator EBE-4-2L2F

consisting of:

- Four pocket electron beam evaporator EBE 4
- Motorized shutter
- · 2 linear motion holders
- · 2 fixed length holders
- · Set of four flux electrodes

## Specifications:

- · UHV compatible
- Standard in vacuum length: 231 mm
- Diameter: 34 mm

#### 2011101405

Power Supply EBE-M for EBE-4

consisting of:

- Filament and HV supply
- · Flux controller (for programmed deposition)
- Shutter motor controller
- complete with 8 m cables for EBE 4 connection

#### Features:

- Filament, emission current and flux independently controllable for all pockets
- Programmed codeposition of up to four materials
- Stepper motor driven shutter
- · Optional ethernet remote control

### Specifications:

- Voltage: 0-2 kV
- Emission current: max 200 mA (combined for all pockets)
- Filament current: 0-10 A
- Filament voltage: 0-10 V (max. filament power: 100 W)

#### SPECS



38.000,00

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Page 3 / 5

Item	Part No.		Quantity	Unit Price	Net EUR
		<ul> <li>Power: max. 400 W combined for all pockets max. 300 W for one pocket</li> <li>19" rack mount (4 HU)</li> </ul>			
2	0018200069	Quartz Crystal Microbalance Package	1	10.000,00	10.000,00
		Thin film deposition monitor with quartz crystal sensor for precise deposition rate measurement.			
		Consisting of:			
		2100006437			
		Quartz Crystal Microbalance	1		
		<ul><li>mounted on DN40CF flange</li><li>adapted length and inclination</li></ul>			
		2100006438			
		Thin Film Deposition Monitor	1		
		<ul> <li>thickness control monitor</li> <li>for mounting in 19" rack</li> <li>two measurement channels</li> <li>LED display</li> <li>RS-232 standard Interface</li> <li>analog outputs for rate/thickness recording</li> <li>quartz crystals (10 pieces)</li> </ul>			
		2100006439			
		Z-Retract for Quartz Crystal Microbalance	1		
		<ul><li> z-retract : 100 mm</li><li> mounting flange: DN40CF</li></ul>			
		•	Subtotal		44.900,00
		[	Discount		-6.900,00



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Page 4 / 5

Item	Part No.	Quantity	Unit Price	Net EUR
3	Shipping	1	400,00	400,00
		Total Amount		38.400.00

The General Terms and Conditions of SPECS GmbH are valid.

### **Ordering, Delivery and Payment Terms**

All prices are net prices excluding customs and taxes.

Goods remain the property of SPECS GmbH until all invoices are fully settled.

Seller provides a one year warranty on labor and parts on defects in material and workmanship, spare parts and consumable are excluded. Warranty period starts at delivery.

Technical alterations are reserved by SPECS Surface Nano Analysis GmbH.

This offer and subsequent orders are governed by German law.

#### Payment schedule:

100% at delivery

#### Delivery time:

week 47, 2017

## Terms of delivery:

CIP (Incoterms 2010) J. Heyrovsky Institute, Prague

## H.S. Code:

Pos. 1: 8543 7090 Pos. 2: 9027 9050

## **Terms of Payment**

Net 30 Days, from date of invoice



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Page 5 / 5

# **Delivery Address:**

J. Heyrovsky Institute of Physical Chemistry Department of Low Dimensional Systems

Dolejskova 2155/3 18223 Prague 8 CZECH REPUBLIC

### **End-User:**

J. Heyrovsky Institute of Physical Chemistry Department of Low Dimensional Systems

Prague Dolejskova 3 18223 Prague 8 CZECH REPUBLIC

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