

# SARTORIUS

## Simplifying Progress

### Cubis® II Ultra-High-Resolution Balances

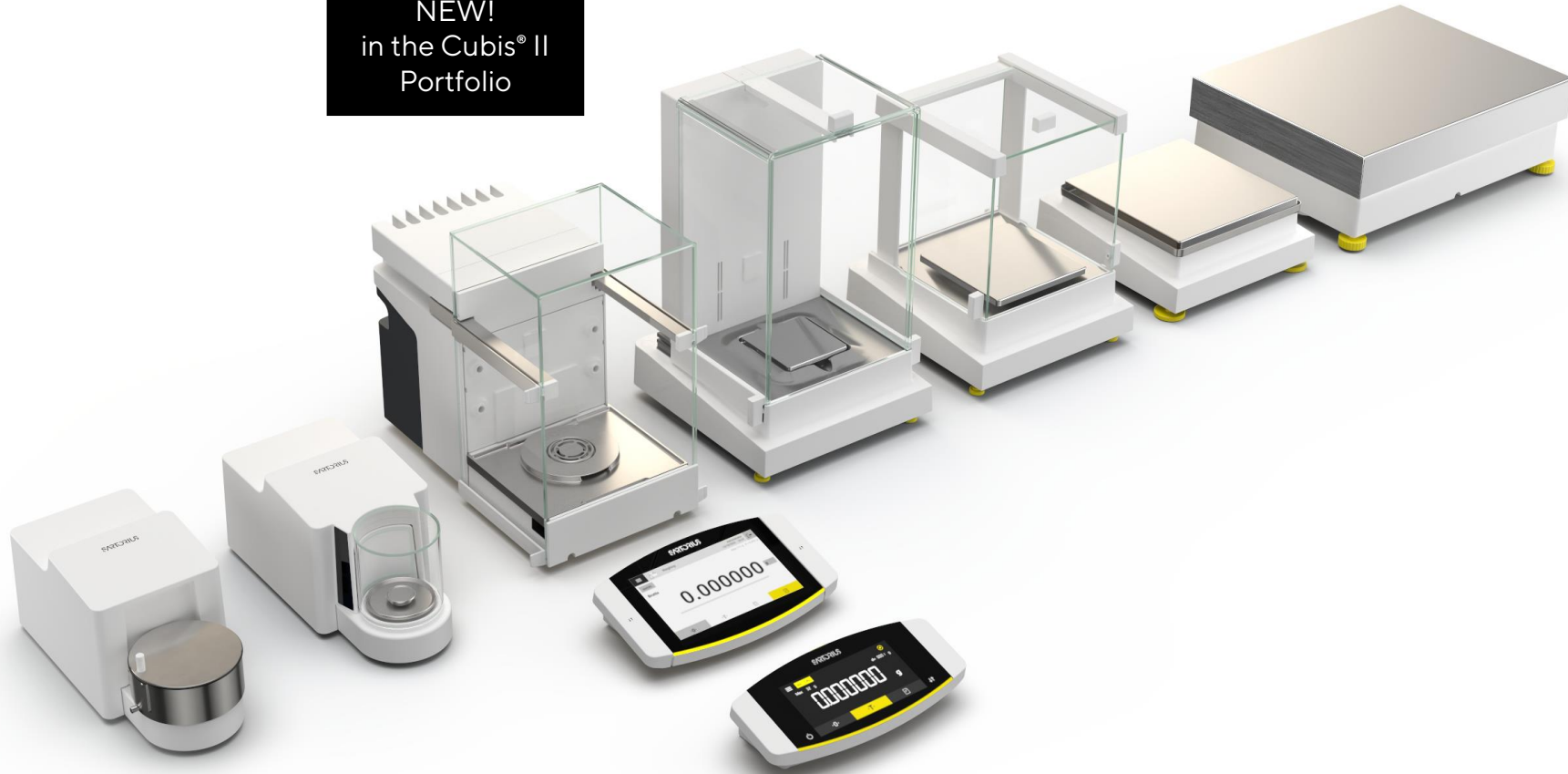
Sartorius Channel Webinar

25<sup>th</sup> July, 2023



# Cubis® II Ultra-High Resolution Balances

NEW!  
in the Cubis® II  
Portfolio



# Target Markets

- Pharma, Biopharma, Biotech, CRO's, CDMO's (QC, Production, R&D, analytical & testing labs)
- Medical Devices, Fine Chemical, Environmental, Governmental, Automotive/Battery, Cosmetics (Quality, Production, R&D, testing & analytical labs)

# Cubis® II Ultra-High Resolution Balances



## High-Capacity Microbalances

### **NEW!** Outstanding Weighing Performance

From specifications to reality: peak performance under your laboratory conditions

### **NEW!** Cleanability, part of compliance and your SOPs

Intuitive disassembly, high chemical resistance and guided cleaning processes thanks to the new CleaningApp

### **NEW!** Hardware Upgradeability

Secure your investment and upgrade for hardware features like auto draft-shield, ionizer or climate module when the need arises

### **All Cubis®II Balances** 21CFR Part 11, EU Annex 11 Compliance

A standalone, configurable device which fulfills compliance requirements, allows easy integration into LIMS and ensure secure data management.

# Cubis® II High Capacity Micro Balances: Models



## ✓ Models

- 66S (61g / 1 µg)
- 66P (61|12g / 10|1 µg)
- 36S (32g / 1 µg)
- 36P (32|10.1g / 10|1 µg)
- 116S (111g / 2 µg)

## ✓ 4<sup>th</sup> generation Monolith

- The Monolith was invented by Sartorius and is still unique
- Allows faster weighing results, improves specifications and is more tolerant against varying environmental conditions

# Cubis® II High Capacity Micro Balances: Features



✓ Compact size

✓ Up to 66% larger weighing area

Weighing pans adjusted to the applications (50mmØ and 90mmØ)

✓ Built-in ionizer

Four ionizing nozzles and new technology ensures high operational efficiency

✓ Motorized auto-leveling

First introduced by Sartorius, integrated motors guarantee compact size

✓ IR sensor

Motion-controlled touch free draft-shield operation

# Cubis® II High Capacity Micro Balances: Sample Holders



YSH02-3



YSH18-3



YSH30-3



YSH47-3

## Ergonomic Sample Weighing Without Sample Loss

✓ Uncompromised accuracy

Made of Titanium, better repeatability\* because of the non-magnetic properties

✓ Convenient Usage

Ergonomic design makes weighing workflow easier\*, faster\*

✓ Great variety of Choice

10+ design variant support various applications

✓ Customized Solutions

Countless solutions made for specific customer requests

\*Check out our Application Notes:  
[Safe-Lock Tube Holders | Sartorius](#)  
[Vial and Flask Holders for Cubis® II Balances | Sartorius](#)

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# Cubis® II Ultra-High Resolution Balances: From Data Sheet To Reality

## FACTS

Real lab performance often deviates from instrument specifications due to varying environmental conditions and samples

## GOAL

Prove that Sartorius lab balances perform under real-world lab conditions



Determination of Minimum Sample Weight values over the entire weighing range



Elimination of electrostatic effects

Performance under drafty conditions (fume hood)

Compensation for Humidity- and Air Pressure changes

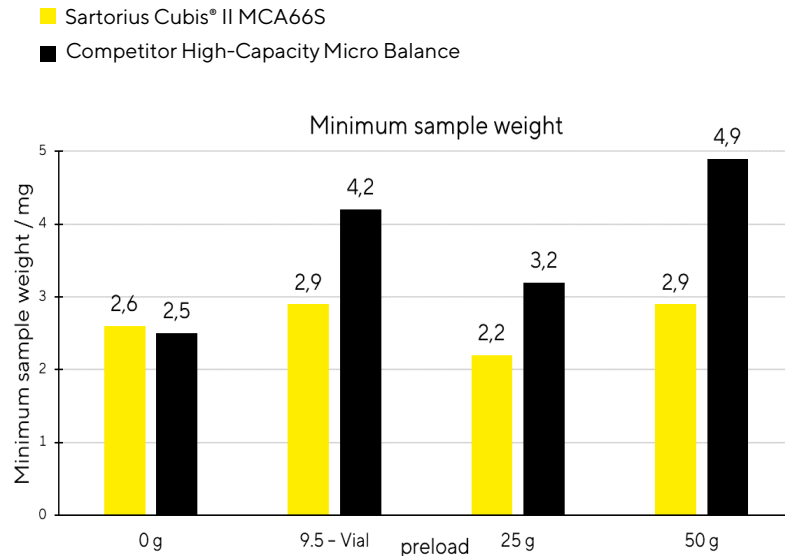


# Minimum Sample Weight under actual lab conditions

- Min sample weight (USPMin) was determined according to USP Chapter 41
  - 10 measurement repetitions with 1 g weight
  - 2 different users
- The entire weighing range was tested at various preloads

## Features & benefits

- ✓ Top of the class min sample weight values save precious materials
- ✓ Robust performance through the entire weighing range guarantees reliability



Learn More:  
Real Lab Tests App Note



# Low min sample weight, why it matters?

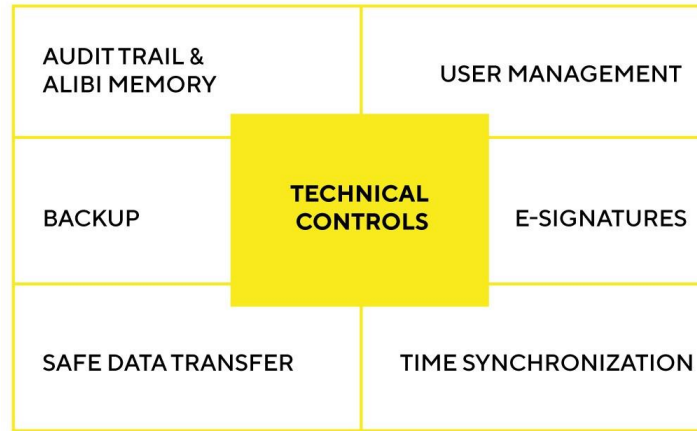
- Sample price: 150 Euro
- Price per mg: 30 Euro
- Tests per year: 100
- Your device min weight 10 mg
- New device min weight 4 mg
- Savings per test: 180 Euro
- Savings per year: 18.000 Euro

Low min sample weight saves  
sample costs \$\$\$

# Minimum Sample Weight Control is a requirement for most Pharmacopeias



21CFRpart11 and EU Annex 11 compliance



USP <41>

- ✓ User Management
- ✓ Electronic Signature
- ✓ Audit Trail
- ✓ minUSP
- ✓ USP Advanced
- ✓ Measurement Uncertainty
- ✓ User Calibration

✓ Cubis® II balances offer a stand-alone solution without additional software

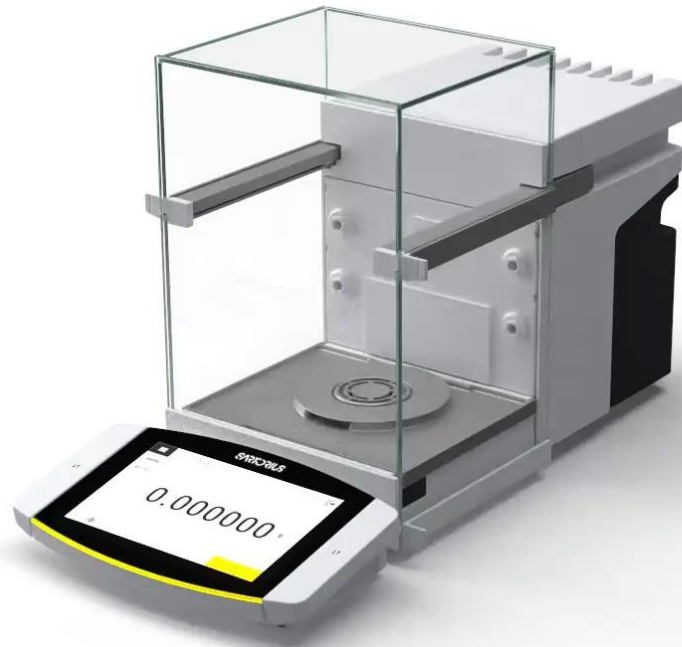
# Application



Faraday Cage



# Elimination of static effects by 100%



## Novel de-ionizing technology

- ✓ Full discharge thanks to the optimal position of the 4 ionizing nozzles and the flexible setting options guarantees accurate results
- ✓ No cross-contamination, because full discharge is guaranteed
- ✓ Protected from outer static effects thanks to the conductive coating of the draft-shields results in stable values without drift

# Investment security and sustainability

Do you want flexibility for your applications?

The choice is yours! Upgrade for an automated inner-draftshield post purchase



## YDS125A

- ✓ Install whenever your application requires or you are facing environmental challenges (click-in accessory)

# Hardware Upgradability

## Secure your investment and licence post-purchase

Wish you had an auto-draftshield function but you already purchased your balance?

Do you have issues with electrostatic effects, but your balance has no built-in ionizer?



### Motorized draftshield

Licence code: QAPP1002 (MCA only)

### Integrated ionizer

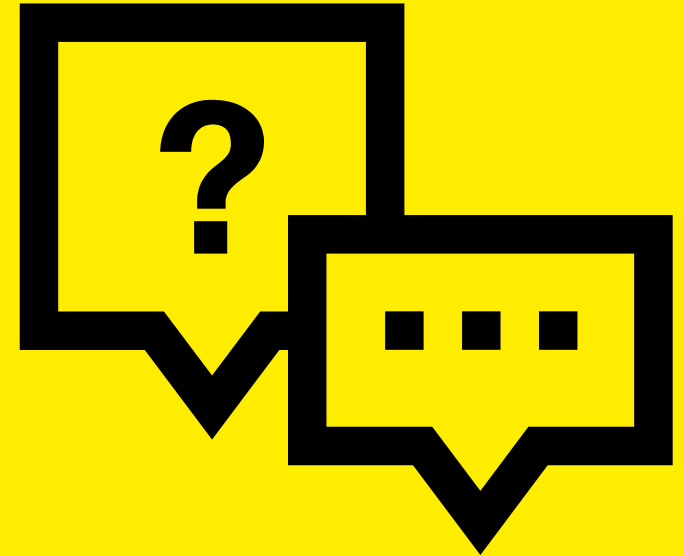
Licence code: QAPP1001 (MCA only)

More to come ...

All hardware licences: QP10 (MCA only)



Q&A



Thank you.

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