

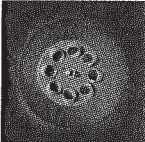
TECHNICAL DATA

	EBA 200	EBA 200 S
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	100 VA	160 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	8 x 15 ml	8 x 15 ml
max. RPM	6,000 min ⁻¹	8,000 min ⁻¹
max. RCF	3,461	6,153
running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (W x D x H)	261 x 353 x 228 mm	261 x 353 x 228 mm
weight	approx. 9 kg	approx. 11 kg
max. noise level	≤ 50 dB (A)	≤ 55 dB (A)
Cat. No.	1800	1802
100 – 127 V 1 ~ / 50–60 Hz	1800-01	1802-01
emission, immunity	FCC class B	FCC class B

*) Other voltages on request.

AVAILABLE ROTORS

ANGLE ROTORS

	angle	max. RPM	max. capacity	Cat. No.	page
	angle rotor, 8-place	33°	6,000 min ⁻¹ / 8,000 min ⁻¹	8 x 15 ml	INCLUSIVE 3

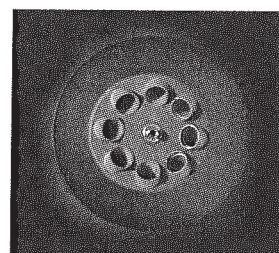
ANGLE ROTOR, 8-PLACE



Rotor

max. RPM	EBA 200 200 S	6.000 min ⁻¹ 8.000 min ⁻¹
max. RCF		3.461 6.153
max. capacity		8 x 15 ml
run up / run down, braked in sec		17 / 12 37 / 17
angle		33°

Cat. No. **INCLUSIVE**



Vessels

capacity in ml	0,5	1,5	2	4	5	6	15	1,1-1,4	2,6-3,4	2,7-3	4,5-5	4,9	7,5-8,5	9-10	5	
Ø x L in mm	10,7 x 36	11 x 38	11 x 38	10 x 68	12 x 75	12 x 62	17 x 100	8 x 65	13 x 65	11 x 66	11 x 92	13 x 90	15 x 92	16 x 92	17 x 59	
max. RCF ²⁾	EBA 200	2.214	2.173	2.173	2.817	2.697	2.697	2.697	2.697	2.697	3.461	3.461	3.461	3.461	2.576	
max. RCF ³⁾	EBA 200 S	3.935	3.664	3.664	5.009	4.794	4.794	4.794	4.794	4.794	6.153	6.153	6.153	6.153	4.579	
radius in mm		55	54	54	70	67	67	67	67	67	86	86	86	86	64	
Cat. No.		Pediatric			microliter tubes			tubes ²⁾			blood collection / urine tubes					-

Adapter

boring Ø x L in mm	11 x 35	11 x 35	11 x 35	11,5 x 67,5	13,5 x 60	13,5 x 60	17,7 x 88	13,5 x 60	13,5 x 60	13,5 x 60	17,7 x 88	17,7 x 88	17,7 x 88	17,7 x 88	17 x 25
vessels per rotor	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Cat. No.	1063-8 (8 pcs.)			6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-	1064

Vessels

capacity in ml	15	10	1,6-5	4-7	8	8,5-10	12
Ø x L in mm	17 x 120	15 x 102	13 x 75	13 x 100	16 x 125	16 x 100	17 x 102
max. RCF ²⁾	EBA 200	3.461	3.461	2.697	3.461	3.461	3.461
max. RCF ³⁾	EBA 200 S	6.153	6.153	4.794	6.153	6.153	6.153
radius in mm	86	66	86	86	86	86	86
Cat. No.	-	blood collection / urine tubes					

Adapter

boring Ø x L in mm	17,7 x 88	17,7 x 88	13,5 x 60	13,5 x 79	17,7 x 88	17,7 x 88	17,7 x 88
vessels per rotor	4	8	8	8	4	8	4
Cat. No.	-	-	1054-A	1058	-	-	-

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4.000.

12) For the EBA 200 only: Model EBA 200 S is supplied as standard with an adapter for these tubes.

CERTIFICATES / REGISTRATIONS



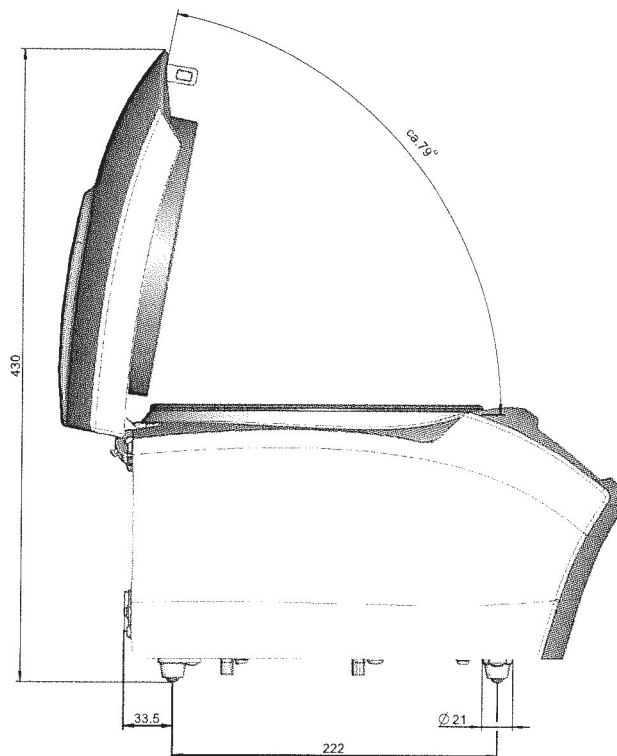
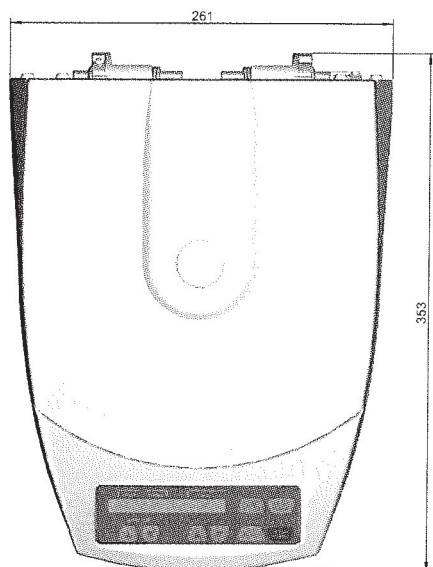
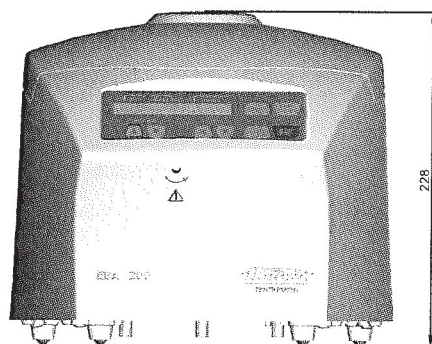
MADE
IN
GERMANY

DOWNLOADS

 Operating Manual – EBA 200 | 200 S

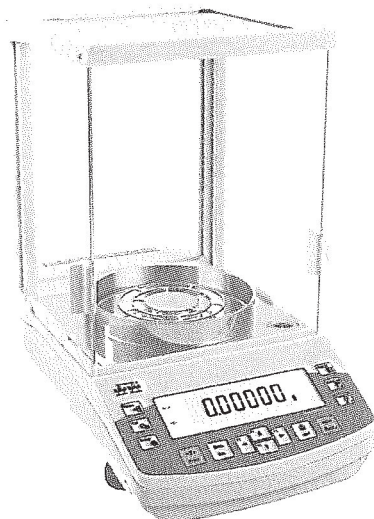
 Complete Range Catalogue

DIMENSIONS – EBA 200 | 200 S

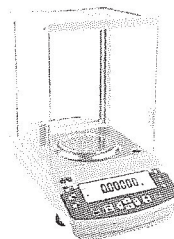


AS R2 PLUS Analytical Balances

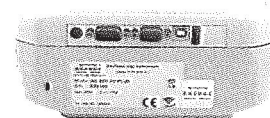
Innovative design and system solutions for standard-class products



AS R2 PLUS, d = 0,01 mg



AS R2 PLUS, d = 0,1 mg



Communication interfaces



Large LCD display with text information section

Functions



Parts counting



Statistics



Density determination



Totalizing



Alibi memory



Dosing



Animal weighing



Under hook weighing



GLP procedures



Replaceable unit



Checkweighing



Autotest



Peak hold



Ambient conditions measurement



Multilingual menu



Percent Weighing

Features

Ergonomic Mechanical Design

Spacious weighing chamber and large open-door clearance allow easy access to the weighing pan and facilitate use of laboratory glassware of various sizes and dimensions. Improved aluminium base of the balance guarantees stability of the weighing system. DUAL-CLICK system facilitates tool-free disassembly and assembly of the weighing chamber. Locating the USB interface at the balance front makes it easier to communicate with peripherals.

Levelling System

Clearly visible levelling device located at the front of the weighing chamber facilitates level control.

Antistatic Weighing Chamber

Weighing chamber panes feature antistatic coating compensating electrostatic charges on the sample and accessories used for mass measurement.

*Antistatic coating has been applied in balances with the readability of d=0.01mg

Uncomplicated and Intuitive Operation

Large, easy-to-read LCD display offers not only a clear presentation of the weighing result, but also enables displaying messages related to the drying process as well as pictograms of active functions and working modes. Quick access keys located on the operation panel enable you to run a given function with just one click.

Data Management

AS R2 PLUS information system is based on operators, products, weighings and tares databases. All saved data can be analysed, exported, imported or exchanged between weighing instruments.

ALIBI Memory

Internal ALIBI memory guarantees safety and automatic record of measurements copies, it also offers possibility to preview, copy and archive data.

Kensington Lock

AS R2 PLUS balances are equipped with Kensington Lock, which allows to secure the device against theft.

Technical Specifications

	AS 60/220.R2 PLUS	AS 62.R2 PLUS	AS 82/220.R2 PLUS	AS 120.R2 PLUS
Maximum capacity [Max]	60 g / 220 g	62 g	82 g / 220 g	120 g
Minimum load	1 mg	1 mg	1 mg	1 mg
Readability [d]	0.01 mg / 0.1 mg	0.01 mg	0.01 mg / 0.1 mg	0.01 mg
Verification scale interval [e]	1 mg	1 mg	1 mg	1 mg
Tare range	-220 g	-62 g	-220 g	-120 g
Standard values				
Repeatability(5% Max)*	0.015 mg	0.012 mg	0.015 mg	0.015 mg
Repeatability(Max)*	0.08 mg	0.02 mg	0.08 mg	0.04 mg
Minimum weight (USP)	30 mg	24 mg	30 mg	30 mg
Minimum weight (U=1%, k=2)	3.0 mg	2.4 mg	3.0 mg	3.0 mg
Permissible values				
Repeatability(5% Max)*	0.02 mg	0.018 mg	0.02 mg	0.02 mg
Repeatability(Max)*	0.1 mg	0.03 mg	0.1 mg	0.05 mg
Linearity	± 0.05 mg / ±0.2 mg	± 0.05 mg	± 0.05 mg / ±0.2 mg	± 0.05 mg
Stabilization time***	2 s	2 s	2 s	2 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	Yes
OIML Class	I	I	I	I
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	5	5	5	5
USB-A	1	1	1	1
USB-B	1	1	1	1
RS 232	2	2	2	2
Wi-Fi® ****	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	3 W	3 W	3 W	3 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity*****	40% ÷ 80%	40% ÷ 80%	40% ÷ 80%	40% ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 90 mm open-work ø 85 mm standard (option)*****	ø 90 mm open-work ø 85 mm standard (option)*****	ø 90 mm open-work ø 85 mm standard (option)*****	ø 90 mm open-work ø 85 mm standard (option)*****
Weighing chamber dimensions	160 × 168 × 227 mm	160 × 168 × 227 mm	160 × 168 × 227 mm	160 × 168 × 227 mm
Weighing device dimensions	333 × 206 × 325 mm	333 × 206 × 325 mm	333 × 206 × 325 mm	333 × 206 × 325 mm
Net weight	5.3 kg	5.3 kg	5.3 kg	5.3 kg
Gross weight	7.3 kg	7.3 kg	7.3 kg	7.3 kg
Packaging dimensions	495 × 400 × 515 mm	495 × 400 × 515 mm	495 × 400 × 515 mm	495 × 400 × 515 mm

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: +15 ÷ +35 °C

*** stabilization time depends on external conditions and dynamics of placing loads on a pan, determined for FAS1 profile

**** optional solution on purchase order

***** non-condensing conditions

***** ø 85 mm standard weighing pan on purchase order

Values of parameters provided in Technical Specifications table, have been determined under stable laboratory conditions. Due to ambient conditions impact or/and balance setup, the above parameters may vary for environments other than laboratory.

Wi-Fi® is a registered trademark of Wi-Fi® Alliance.

Technical Specifications

	AS 110.R2 PLUS	AS 160.R2 PLUS	AS 220.R2 PLUS	AS 310.R2 PLUS
Maximum capacity [Max]	110 g	160 g	220 g	310 g
Minimum load	10 mg	10 mg	10 mg	10 mg
Readability [d]	0.1 mg	0.1 mg	0.1 mg	0.1 mg
Verification scale interval [e]	1 mg	1 mg	1 mg	1 mg
Tare range	-110 g	-160 g	-220 g	-310 g
Standard values				
Repeatability(5% Max)*	0.06 mg	0.07 mg	0.07 mg	0.08 mg
Repeatability(Max)*	0.08 mg	0.08 mg	0.08 mg	0.12 mg
Minimum weight (USP)	120 mg	140 mg	140 mg	160 mg
Minimum weight (U=1%, k=2)	12 mg	14 mg	14 mg	16 mg
Permissible values				
Repeatability(5% Max)*	0.09 mg	0.09 mg	0.09 mg	0.12 mg
Repeatability(Max)*	0.1 mg	0.1 mg	0.1 mg	0.15 mg
Linearity	± 0.2 mg	± 0.2 mg	± 0.2 mg	± 0.3 mg
Stabilization time***	2 s	2 s	2 s	2.5 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	Yes
OIML Class	I	I	I	I
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	5	5	5	5
USB-A	1	1	1	1
USB-B	1	1	1	1
RS 232	2	2	2	2
Wi-Fi® ****	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	3 W	3 W	3 W	3 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity*****	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 100 mm	ø 100 mm	ø 100 mm	ø 100 mm
Weighing chamber dimensions	160 × 168 × 227 mm	160 × 168 × 227 mm	160 × 168 × 227 mm	160 × 168 × 227 mm
Weighing device dimensions	333 × 206 × 355 mm	333 × 206 × 355 mm	333 × 206 × 355 mm	333 × 206 × 355 mm
Net weight	5.3 kg	5.3 kg	5.3 kg	5.3 kg
Gross weight	7.3 kg	7.3 kg	7.3 kg	7.3 kg
Packaging dimensions	495 × 400 × 515 mm	495 × 400 × 515 mm	495 × 400 × 515 mm	495 × 400 × 515 mm

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: +15 ÷ +35 °C

*** Stabilization time depends on external conditions and dynamics of placing loads on a pan, determined for FAST profile

**** optional solution on purchase order

***** non-condensing conditions

Values of parameters provided in Technical Specifications table, have been determined under stable laboratory conditions. Due to ambient conditions impact or/and balance setup, the above parameters may vary for environments other than laboratory.

Wi-Fi® is a registered trademark of Wi-Fi® Alliance.

Technical Specifications

	AS 520.R2 PLUS
Maximum capacity [Max]	520 g
Minimum load	—
Readability [d]	0.1 mg
Verification scale interval [e]	—
Tare range	–520 g
Standard values	
Repeatability(5% Max)*	0.08 mg
Repeatability(Max)*	0.25 mg
Minimum weight (USP)	160 mg
Minimum weight (U=1%, k=2)	16 mg
Permissible values	
Repeatability(5% Max)*	0.12 mg
Repeatability(Max)*	0.4 mg
Linearity	± 0.4 mg
Stabilization time***	2.5 s
Adjustment	internal
Verification	—
OIML Class	—
Display	LCD (with backlight)
Keypad	14 keys
Protection class	IP 43
Databases	5
USB-A	1
USB-B	1
RS 232	2
Wi-Fi® ****	802.11 b/g/n
Power supply	12 ÷ 16 V DC
Power consumption	3 W
Operating temperature	+10 ÷ +40 °C
Atmospheric humidity*****	40 ÷ 80%
Transport and storage temperature	–20 ÷ +50 °C
Weighing pan dimensions	ø 100 mm
Weighing chamber dimensions	160 × 168 × 227 mm
Weighing device dimensions	333 × 206 × 355 mm
Net weight	5.3 kg
Gross weight	7.3 kg
Packaging dimensions	495 × 400 × 515 mm

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: +15 ÷ +35 °C

*** Stabilization time depends on external conditions and dynamics of placing loads on a pan, determined for FAST profile

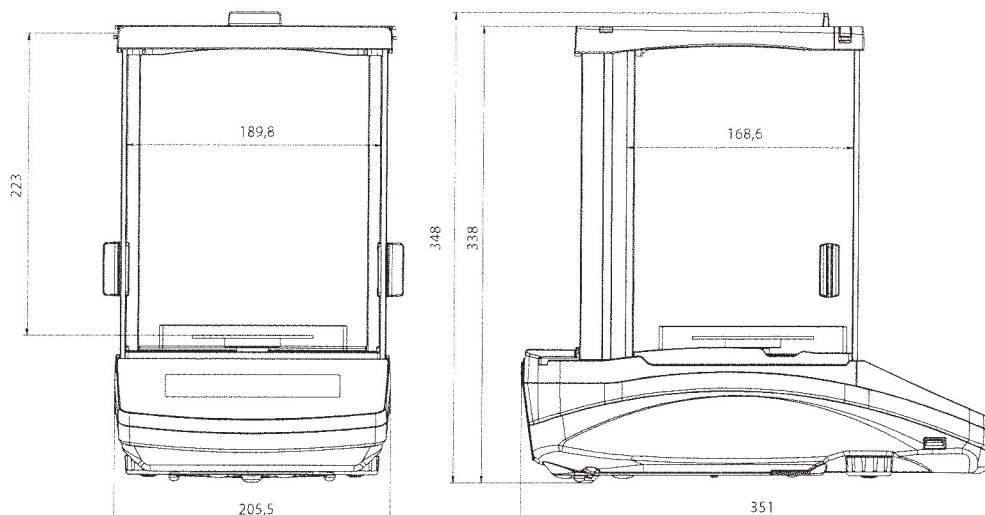
**** optional solution on purchase order

***** non-condensing conditions

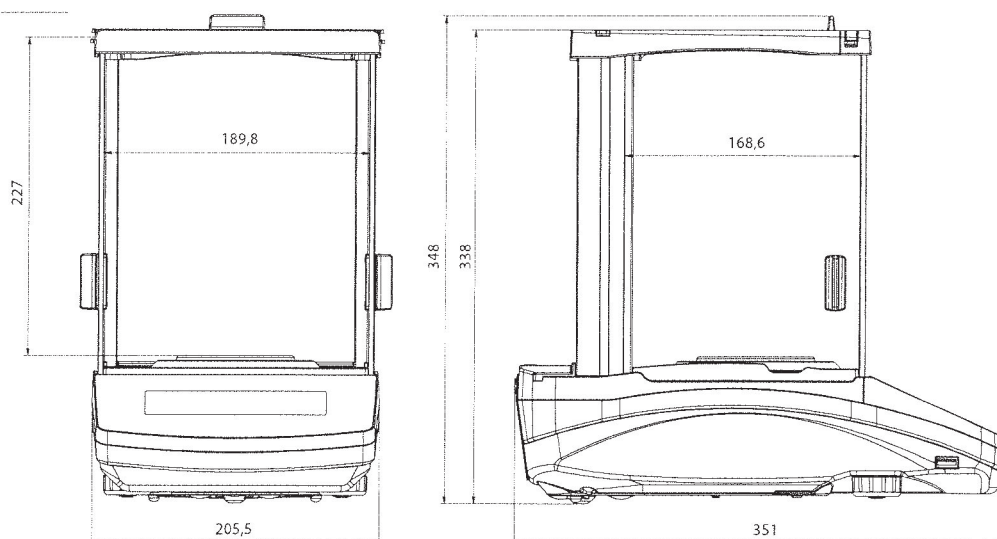
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Dimensions



AS R2, d = 0.01 mg



AS R2, d = 0.1 mg

Accessories

Weighing Tables

- granite antivibration table
- antivibration tables for laboratory balances
- professional weighing table

Professional Weighing

- laboratory ware holders
- KIT 85 density determination kit
- under-hook weighing rack

Ambient Conditions

- DJ-04 anti-static ioniser

Peripheral Devices

- label printer
- receipt printer
- Epson dot matrix printer
- barcode scanners
- WD-6 LCD display

Cables, Converters

- P0108: RS 232 cable (balance-computer)
- P0151: RS 232 cable (balance - Epson printer)
- USB cable type A-B
- AP2-1 power loop output

Draft shields and anti-draft chambers

- protective cover for R series indicator

Electrical accessories

- ZR-02 power supply with battery
- panel box

Dedicated Software

R-LAB

- collecting measurements
- carrying out statistical analysis of measurements
- customized graphs and reports

E2R Weighing Records

- complete, automated databases synchronization
- fully supported processes of labelling and parts counting
- record of weighings, weighings archiving
- basic and advanced (with graphs) reports

Alibi Reader

- readout of data saved to Alibi memory
- export of data saved to Alibi memory
- data filtering and reports generating
- saving ALIBI database to CSV file

RAD KEY

- Establishing cooperation between a weighing instrument and a computer

R.Barcode

- The basic function software is presentation of the data sent by barcode scanners connected to PC via USB or RS232

Radwag Development Studio

- presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)
- possibility of connection with weighing equipment on which each function is carried out,
- library with mass control, contained within the development environment
- complete documentation of the communication protocol
- set of user manuals for different solutions addressed for programmers employed in companies using RADWAG-manufactured weighing equipment

RADWAG Connect

- establishing communication with all balances, scales and weighing modules using Common Communication Protocol
- communication via local network,
- support of basic functions
- auto searching for devices
- connecting with few devices simultaneously, swapping between them
- clear list of connected platforms
- record of measurements in the program,
- export of carried out measurements to CSV file,
- work performed using freely selected device with Windows 10 operating system

LabView Driver

- operation of RADWAG balances in LabView environment

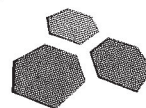
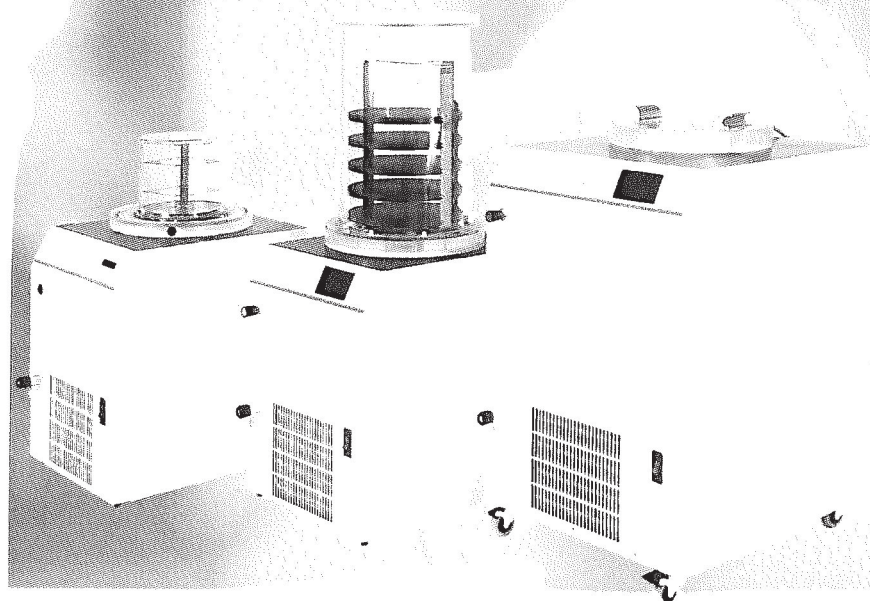
R Panel

- operator access to all keys and functions that are to be found on an operation panel
- communication via COM1, COM2 or USB,
- compatible with: Windows Vista, 7, 8, 8.1, 10, Server 2008R2, 2012, 2016.

INCREASE YOUR LAB EFFICIENCY

CoolSafe
Freeze Dryers
4-15 Litres

Scandinavian by Design



LABOGENE

COOLSAFE 4-15 LITRES

CoolSafe 4-15 L is an outstanding and versatile range of advanced bench-top freeze dryers. They are the product of more than 40 years' experience and expertise, and are the ideal choice for research, process development and small-scale production.

Available in 3 different capacities:

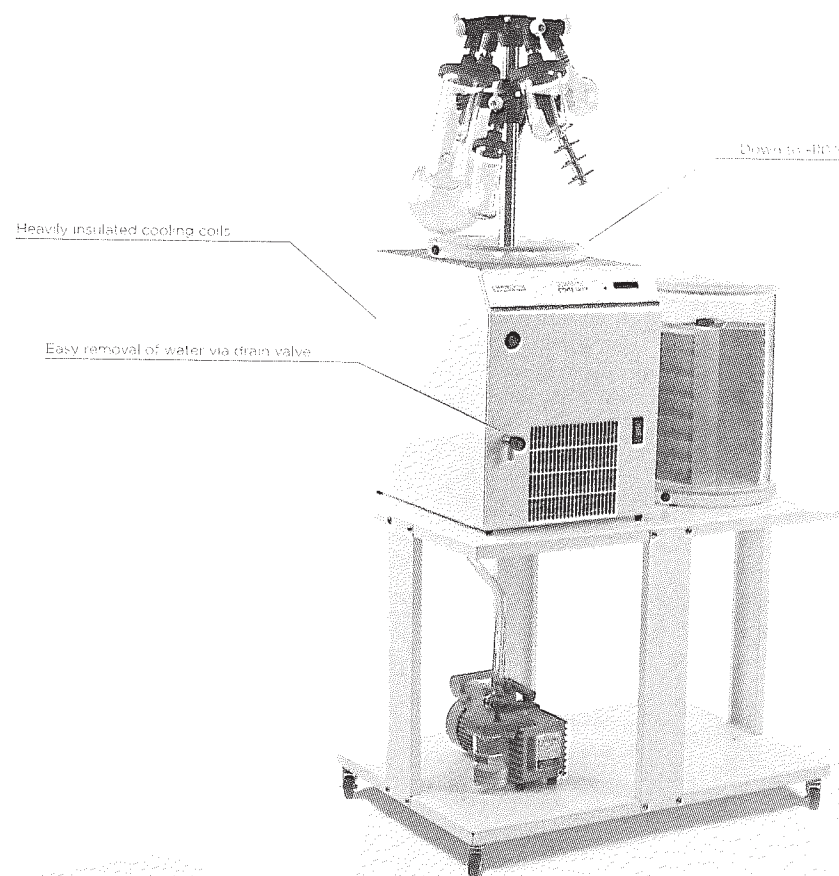
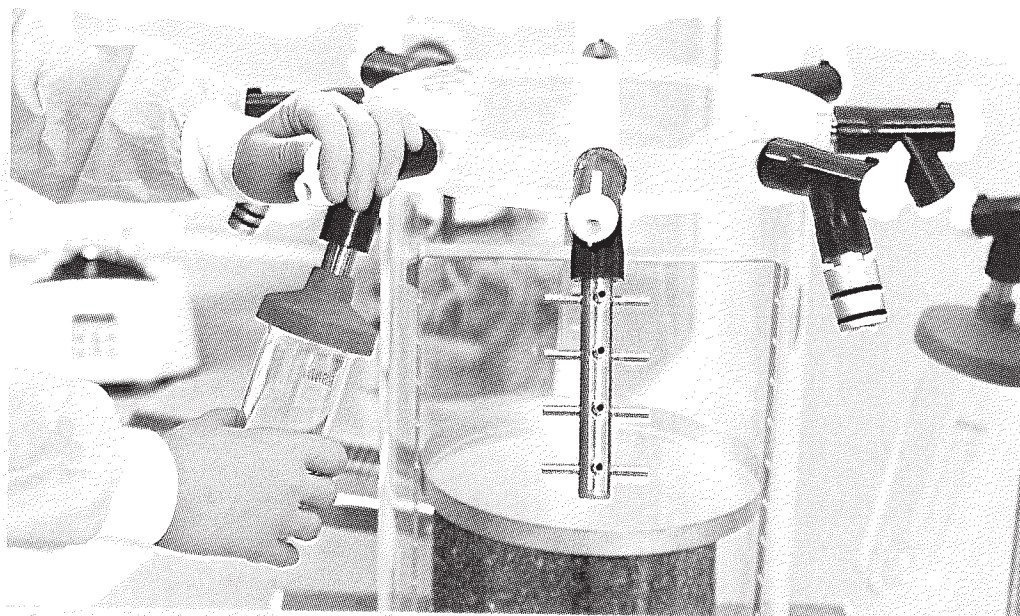
- 4 litres.
- 9 litres.
- 15 litres.

All come with a choice of condenser temperatures and a wide range of high-quality chambers and accessories. All models offer both simplicity of operation and the highest performance characteristics to meet the demands of today's research and development laboratories.

Proven track record in:

- Quality control – typically for:
 - Food materials.
 - Bacteria.
 - Meat and dairy products.
- Improved preservation – typically for:
 - Floral materials.
 - Vaccines and anti-toxins.
 - Tissues and cells.
 - Fish, shellfish, milk (such as goat & horse milk) and dairy products, vegetables, edible mycelia, soft fruits and berries etc.
- Conservation of archaeological items, such as wood, leather, textiles etc.
- Restoration of water-damaged books, documents and paper materials.

The CoolSafe 4-15 L range is suitable for research, testing and production on a minor scale.



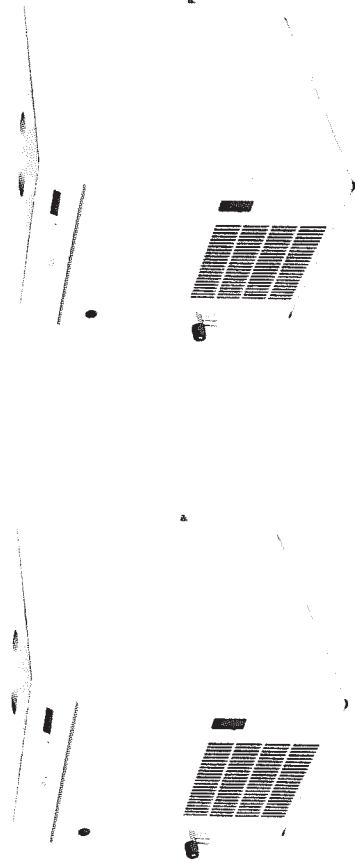
What LaboGene's freeze dryers offer:

- Lowest condenser temperatures of -55°C, -95°C, -100°C or -110°C.
- Seamless stainless steel condenser with external cooling coils, heavily insulated to conserve energy and increase performance.

- Easy draining with built-in valve, allowing removal of defrost water and/or solvents after a completed freeze-drying session.
- Easy operation with a built-in vacuum valve connecting the condenser and vacuum pump and allowing the condenser to cool down and the vacuum pump to warm up separately, ensuring an efficient start-up sequence.

MEET THE COOLSAFE FAMILY

LaboGene's 4-15 L freeze dryers are available in 4 variants: Basic, Pro, Touch and Superior XS/XL, designed to meet the demands of laboratories of all types.



Need a
Customized solution?
For more information visit
www.labogene.com

COOLSAFE BASIC

- Digital display of the condenser temperature
- Wide choice of manifolds, chambers and accessories to suit your sample requirements
- Available with 4-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 2.5 kg/24 hours - max. 3 kg in total
- Available with 9-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 4 kg/24 hours - max. 7 kg in total

COOLSAFE PRO

- Digital display of the condenser temperature and pressure
- Wide choice of manifolds, chambers and accessories to suit your sample requirements
- Available with 4-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 2.5 kg/24 hours - max. 3 kg in total
- Available with 9-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 4 kg/24 hours - max. 7 kg in total
- Available with 15-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 6 kg/24 hours - max. 10 kg in total

COOLSAFE TOUCH

- New touchscreen controller with regulation of temperature, pressure and time
- Freezing with programming and storage of protocols for full research and method development
- Wide choice of manifolds, chambers with heated shelves and accessories to suit your sample requirements
- Available with 4-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 2.5 kg/24 hours - max. 3 kg in total
- Available with 9-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 4 kg/24 hours - max. 7 kg in total
- Available with 15-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 6 kg/24 hours - max. 10 kg in total

COOLSAFE SUPERIOR XS/XL

- New touchscreen controller with regulation of temperature, pressure and time
- Possibility of pre-freezing your samples
- Freezing with programming and storage of protocols for full research and method development
- With the automatic system, it is possible to create your own personal program for each sample - starting with pre-freeze then primary drying maintaining with secondary drying. This secures the highest performance and ensures that the quality of your samples will be the same every time
- The XS version is inclusive of a 3 electrical heated shelf rack for pre-freezing inside the condenser. For the XL version you can choose between a 3 or a 5 electrical heated shelf rack
- PT sensors for precise shelf temperature regulation
- XS is available with a 9-litre condenser and a temperature option of -100°C and condenser ice capacity of 4 kg/24 hours
- XL is available with a 15-litre condenser and a temperature option of -95°C and condenser ice capacity of 21 kg/24 hours

We stand ready to meet your freeze dryer needs with our efficient solutions

CONFIGURE YOUR COOLSAFE FREEZE DRYER

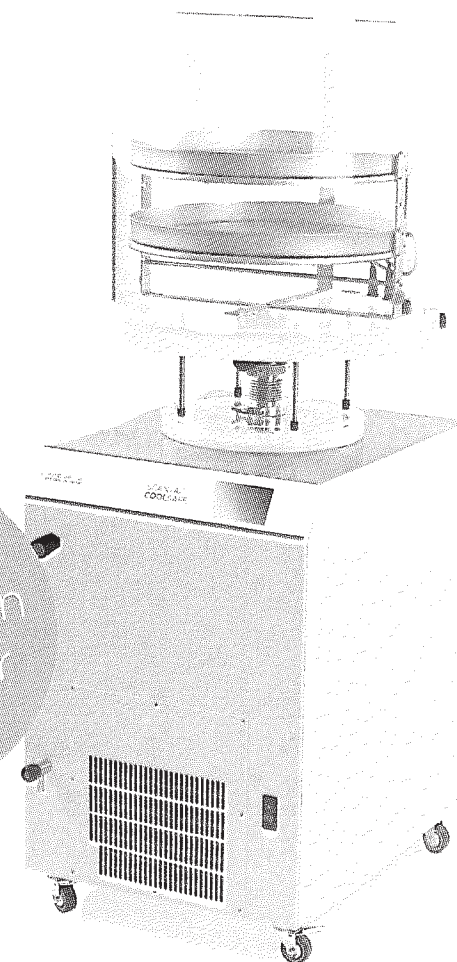
We offer a range of options to configure the freeze dryer to your specific needs:

- Teflon coating of the condenser for longevity, easy cleaning and protection from corrosion, especially when working with aggressive acids.
- Electric de-ice function for fast de-icing of the condenser.
- CoolSafe is easy to place in your laboratory:
 - Available as standard for direct placement on the laboratory table.
 - Available with lockable castors for easy transport and to save laboratory bench space.
 - Available with a trolley and convenient location of the vacuum pump to make the system a mobile freeze-drying unit that can be positioned anywhere in the laboratory.

Contact the LaboGene distributor in your respective country for more information about your options and about freeze dryer customization.

We have the
FREEZE DRYER
FOR YOUR NEEDS

Smart
Touchscreen
Controller



40

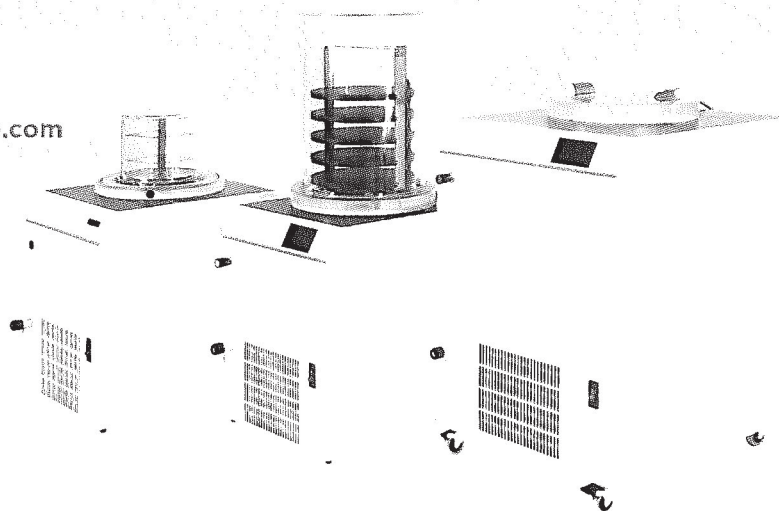
YEARS OF EXPERIENCE

LaboGene are experts in the fields of Clean Air & Laminar Flow, Centrifugation, Vacuum & Cooling. We provide both standard and perfectly customized solutions. Designing, developing, manufacturing and marketing laboratory and industrial equipment is our speciality.

Leading supplier in:

Microbiological safety cabinets
Freeze dryers
Freezers
Centrifuges

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001

TECHNICKÁ SPECIFIKACE

Laboratorní stolní hybridizační inkubátor typ HB-1000

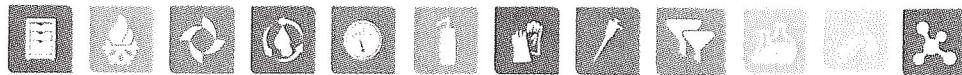
Přístroj HB-1000 je hybridizační inkubátor, cenově výhodný a velmi výkonný inkubátor na 10 lahví, s nejmodernějším teplotním mikroprocesorem a regulátorem rychlosti. HL-1000 Hybridizer lze nastavit, aby pracoval v rozmezí 10 až 15 RPM, umožňující konzistentní nasycení vzorků pro mytí nebo hybridizaci. Snadno vyjímatelný ochranný zásobník pod karuselem dovoluje snadné vyčištění v případě vylití média.

Dotyková klávesnice a mikroprocesor umožňují přesnou regulaci teploty od 10°C od okolního prostředí až do 99.9°C. Klávesnice je umístěna přesně pod LED displej. Jakmile je zadána požadující teplota hybridizace, na displeji se zobrazí aktuální teplota uvnitř komory. Prostředí komory je kalibrováno při 68.0°C. Při této teplotě je přesnost $\pm 0.3^\circ\text{C}$. Vnitřní ventilátor napomáhá rovnoměrnému proudění tepla v komoře.

V hybridizátoru se standardním karuselem dodávaným spolu s přístrojem můžete používat 2 různé velikosti lahví. Otočné kolo karuselu pojme až dvacet lahví o velikosti 35 x 150 mm nebo deset lahví o velikosti 35 x 300 mm. Navíc lze používat kombinaci obou velikostí lahví současně. Jako volitelné příslušenství lze objednat karusel sadu pro nadměrně velké láhve a nástavce pro různé pohyby třepání.

Vlastnosti

Mikroprocesor umožňuje přesnější výběr regulace teploty (okolní až $+10^\circ\text{C}$ až $99,9^\circ\text{C}$)
Plynulá regulace otáček (10 až 15 RPM) na karuselu umožňuje konzistentní nasycení vzorků, ať už pro mytí nebo křížení
Nastavitelný RPM knoflík umožňuje zpomalit otočné kolečko pro odstranění vzorků
Velký LED displej, který zobrazuje aktuální teplotu uvnitř komory, se nachází nad dotykovou klávesnicí pro regulaci teploty
Rotační kolo může být odstraněno a nahrazeno s vyměnitelnou rocker deskou umožňující všechny hybridizační protokoly v jednom stolním přístroji
Snímatelný ochranný zásobník umožňuje snadné vyčištění rozlitých médií
Rotační kolečko může držet dvacet 35 x 150 mm velkých zkumavek nebo deset 35 x 300 mm velkých zkumavek nebo kombinace
Vnitřní prostor je z nerezů a snadno se čistí
Volitelný rocker deska umožňuje použití různých typů baněk
Nastavitelné otáčky 10 až 15 RPM
Topný element 1250 W
Teplotní rozsah teplota okolí $+10^\circ\text{C}$ do 99.9°C
Přesnost nastavení regulátoru $\pm 0.1^\circ\text{C}$
Displej LED
Teplotní stabilita v komoře: $\pm 0.3^\circ\text{C}$ při 68°C / v zkumavkách: $\pm 0.1^\circ\text{C}$ při 68°C



Teplotní uniformita v komoře: $+0.3^{\circ}\text{C}$ při 68°C / v zkumavkách: $+0.1^{\circ}\text{C}$ při 68°C

Kapacita 20 ks zkumavek 35 x 150 mm nebo 10 ks zkumavek 35 x 300 mm

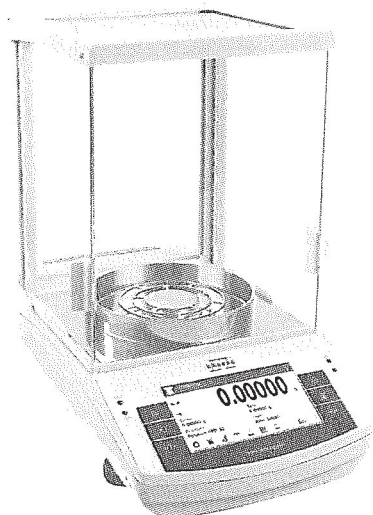
Napájení 230V/50Hz

Rozměry vnitřní 356 x 273 x 273mm / vnější 445 x 406 x 381mm

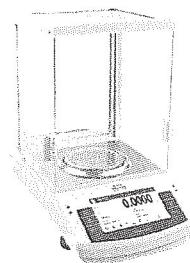


AS X2 PLUS Analytical Balances

Innovative design and system solutions for advanced-class products



AS X2 PLUS, d = 0,01 mg



AS X2 PLUS, d = 0,1 mg



Communication interfaces



5" colour touch screen with customized keys layout

Functions



Parts counting



Percent weighing



Density determination



GLP procedures



Ambient conditions measurement



Dosing



Statistics



Under hook weighing



Proximity sensors



Replaceable unit



Checkweighing



Animal weighing



Peak hold



Cooperation with titrators



Multilingual menu



Formulations



Autotest

Features

Ergonomic Mechanical Design

Spacious weighing chamber and large open-door clearance allow easy access to the weighing pan and facilitate use of laboratory glassware of various sizes and dimensions. Improved aluminium base of the balance guarantees stability of the weighing system. DUAL-CLICK system facilitates tool-free disassembly and assembly of the weighing chamber. Locating the USB interface at the balance front makes it easier to communicate with peripherals.

LevelSENSING System

The in-built sensors measure tilt and display graphic message on the weighing device screen. Levelling system facilitates adjustment, controls the level state, and informs about level deviations, all this in accordance with GLP and GMP.

SMARTLab

AS X2 PLUS balances feature numerous functions supporting and supervising mass measurement in laboratory, facilitating operation and limiting the risk of „human factor“ errors, e.g. automatic adjustment, data control, ALIBI memory, automatic reports and ambient conditions monitoring.

Antistatic Weighing Chamber

Weighing chamber panes feature antistatic coating compensating electrostatic charges on the sample and accessories used for mass measurement.

*Antistatic coating has been applied in balances with the readability of d=0.01 mg

Display Customization

Functions displayed on the colour 5" touch screen can be customized to suit carried out process and user's needs. Flexible configuration of buttons, labels and text fields is also a great advantage.

Kensington Lock

AS X2 PLUS balances are equipped with Kensington Lock, which allows to secure the device against theft.