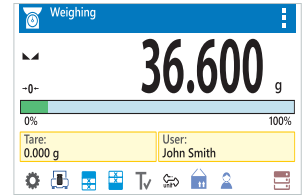# Standard Series Moisture Balances

Easy to use. Many advanced features at an affordable price

Automatic drying chamber's lid opening and closing

Dynamic control of sample mass – maximum capacity bar graph

5" touch screen with customized buttons layout

Functions

%M Moisture content analysis	**Drying modes**	**GLP** GLP procedures	**Automatic lid opening**	**Multilingual menu**
%D Dry mass determination	**Result forecast**	**Proximity sensors**	**Replaceable unit**	

Features

Measurement Precision Along with High Performance and Productivity
Due to ideal measurement parameters and high performance, the MA X2.A moisture analysers can be used for vast range of moisture content determination processes.

Mass Measurement Accuracy and Drying Temperature Optimisation
Smart control of heating modules operation guarantees optimum drying temperature, plus fast and precise measurement. At your disposal there are numerous drying profiles ensuring various methods of obtaining the pre-set temperature.

Ease of Use and Maximum Comfort of Operation
Thanks to a clear and intuitive menu layout and 5" colour touch screen, maximum comfort and incredibly easy operation are both ensured.

Automatic Adjustment System (IC Series Exclusively)
Internal adjustment system guarantees the highest accuracy and reliable measurements results.

Drying Result Prognosis
Innovative function, Drying Forecast, allows to shorten duration of moisture content analysis process via forecasting the final result even before drying process completion.

Drying Chamber Auto-Control
Automatic system of opening and closing the drying chamber's lid enables handy control either by means of proximity sensors or on-screen buttons.

Touch-Free Operation
Two programmable proximity sensors can be assigned with any function or application. The given function when assigned is both run and operated touch-free.

Databases as Drying Processes Support
Possibility to record sample-related information and drying parameters in the database improves managing of measurement processes and makes comfort of operation more advanced.

Technical Specifications

QUICK QUOTE	MA 50/1.X2.A MA 50/1.X2.IC.A	MA 50.X2.A MA 50.X2.IC.A	ONLINE PRICING
Maximum capacity [Max]	50 g	50 g	
Readability [d]	0.1 mg	1 mg	
Tare range	–50 g	–50 g	
Maximum sample weight	50 g	50 g	
Drying temperature range	max. 160 ℃, max. 250 ℃ (option)*	max. 160 ℃, max. 250 ℃ (option)*	
Moisture content readability	0.0001%	0.001%	
Moisture content repeatability	0.05% (ca. 2 g sample), 0.01% (ca. 10 g sample)	0.05% (ca. 2 g sample) 0.01% (ca. 10 g sample)	
Adjustment	external (MA.X2.A) internal (MA.X2.IC.A)	external (MA.X2.A) internal (MA.X2.IC.A)	
Display	5" capacitive colour touch screen	5" capacitive colour touch screen	
Keypad	6 keys	6 keys	
Heating module	IR emitter halogen lamp (option)** metal heater (option)**	IR emitter halogen lamp (option)** metal heater (option)**	
Databases	8	8	
Drying profiles	standard, fast, step, mild	standard, fast, step, mild	
Finish mode	manual, automatic, time-defined, user-defined	manual, automatic, time-defined, user-defined	
Touch-free operation	2 programmable proximity sensors	2 programmable proximity sensors	
Additional functions	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing	
USB-A	1	1	
USB-B	1	1	
RS 232	1	1	
Wireless connection	802.11 b/g/n	802.11 b/g/n	
Ethernet	10 / 100 Mbit	10 / 100 Mbit	
Power supply	110V/230 V	110V/230 V	
Power consumption	6 W (during weighing) and max 450 W (during drying)	6 W (during weighing) and max 450 W (during drying)	
Heating module power	450 W	450 W	
Operating temperature	+10 ÷ +40 ℃	+10 ÷ +40 ℃	
Atmospheric humidity***	40 ÷ 80%	40 ÷ 80%	
Transport and storage temperature	–20 ÷ +50 ℃	–20 ÷ +50 ℃	
Maximum sample height	h= 20 mm	h= 20 mm	
Weighing pan dimensions	ø 90 mm, h= 8 mm	ø 90 mm, h= 8 mm	
Weighing device dimensions	338 × 206 × 197mm	338 × 206 × 197mm	
Net weight	5.2 kg (MA.X2.A) 5.3 kg (MA.X2.IC.A)	5.2 kg (MA.X2.A) 5.3 kg (MA.X2.IC.A)	
Gross weight	6.7 kg (MA.X2.A) 6.8 kg (MA.X2.IC.A)	6.7 kg (MA.X2.A) 6.8 kg (MA.X2.IC.A)	
Packaging dimensions	470 × 380 × 336 mm	470 × 380 × 336 mm	

*   optional design with halogen lamp – max temperature 250° C
**   optional design with preferable heating module: halogen lamp – WH version, metal heater – NS version
***   non-condensing conditions

QUICK QUOTE	MA 110.X2.A MA 110.X2.IC.A	MA 200/1.X2.A MA 200/1.X2.IC.A	ONLINE PRICING
Maximum capacity [Max]	110 g	200 g	
Readability [d]	1 mg	0.1 mg	
Tare range	−110 g	−200 g	
Maximum sample weight	110 g	200 g	
Drying temperature range	max. 160 ℃, max. 250 ℃ (option)*	max. 160 ℃, max. 250 ℃ (option)*	
Moisture content readability	0.001%	0.0001 %	
Moisture content repeatability	0.05% (ca. 2 g sample) 0.01% (ca. 10 g sample)	0.05% (ca. 2 g sample) 0.01% (ca. 10 g sample)	
Adjustment	external (MA.X2.A) internal (MA.X2.IC.A)	external (MA.X2.A) internal (MA.X2.IC.A)	
Display	5" capacitive colour touch screen	5" capacitive colour touch screen	
Keypad	6 keys	6 keys	
Heating module	IR emitter halogen lamp (option)** metal heater (option)**	IR emitter halogen lamp (option)** metal heater (option)**	
Databases	8	8	
Drying profiles	standard, fast, step, mild	standard, fast, step, mild	
Finish mode	manual, automatic, time-defined, user-defined	manual, automatic, time-defined, user-defined	
Touch-free operation	2 programmable proximity sensors	2 programmable proximity sensors	
Additional functions	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing	
USB-A	1	1	
USB-B	1	1	
RS 232	1	1	
Wireless Connection	802.11 b/g/n	802.11 b/g/n	
Ethernet	10 / 100 Mbit	10 / 100 Mbit	
Power supply	230 V	230 V	
Power consumption	6 W (during weighing) and max 450 W (during drying)	6 W (during weighing) and max 450 W (during drying)	
Heating module power	450 W	450 W	
Operating temperature	+10 ÷ +40 ℃	+10 ÷ +40 ℃	
Atmospheric humidity***	40 ÷ 80%	40 ÷ 80%	
Transport and storage temperature	−20 ÷ +50 ℃	−20 ÷ +50 ℃	
Maximum sample height	h= 20 mm	h= 20 mm	
Weighing pan dimensions	ø 90 mm, h= 8 mm	ø 90 mm, h= 8 mm	
Weighing device dimensions	338 × 206 × 197mm	338 × 206 × 197mm	
Net weight	5.2 kg (MA.X2.A) 5.3 kg (MA.X2.IC.A)	5.2 kg (MA.X2.A) 5.4 kg (MA.X2.IC.A)	
Gross weight	6.7 kg (MA.X2.A) 6.8 kg (MA.X2.IC.A)	6.7 kg (MA.X2.A) 6.9 kg (MA.X2.IC.A)	
Packaging dimensions	470 × 380 × 336 mm	470 × 380 × 336 mm	

*	optional design with halogen lamp – max temperature 250° C
**	optional design with preferable heating module: halogen lamp – WH version, metal heater – NS version
***	non-condensing conditions

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www.coffeelabequipment.com

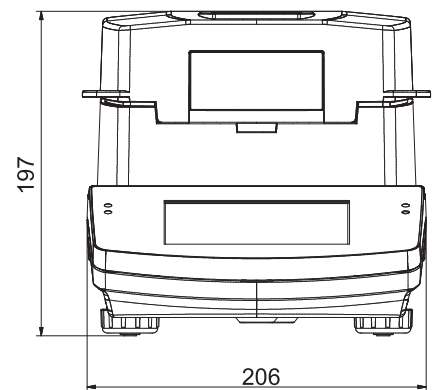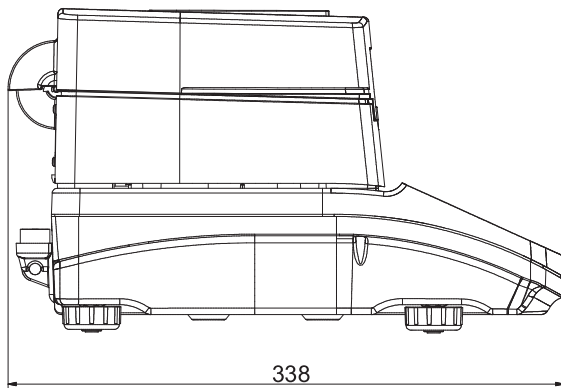| QUICK QUOTE	MA 210.X2.A MA 210.X2.IC.A	ONLINE PRICING
Maximum capacity [Max]	210 g	
Readability [d]	1 mg	
Tare range	−210 g	
Maximum sample weight	210 g	
Drying temperature range	max. 160 ℃, max. 250 ℃ (option)*****	
Moisture content readability	0.001%	
Moisture content repeatability	0.05% (ca. 2 g sample) 0.01% (ca. 10 g sample)	
Adjustment	external (MA.X2.A) internal (MA.X2.IC.A)	
Display	5″ capacitive colour touch screen	
Keypad	6 keys	
Heating module	IR emitter halogen lamp (option)****** metal heater (option)******	
Databases	8	
Drying profiles	standard, fast, step, mild	
Finish mode	manual, automatic, time-defined, user-defined	
Touch-free operation	2 programmable proximity sensors	
Additional functions	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing	
USB-A	1	
USB-B	1	
RS 232	1	
Wireless Connection	802.11 b/g/n	
Ethernet	10 / 100 Mbit	
Power supply	230 V	
Power consumption	6 W (during weighing) and max 450 W (during drying)	
Heating module power	450 W	
Operating temperature	+10 ÷ +40 ℃	
Atmospheric humidity***	40 ÷ 80%	
Transport and storage temperature	−20 ÷ +50 ℃	
Maximum sample height	h= 20 mm	
Weighing pan dimensions	ø 90 mm, h= 8 mm	
Weighing device dimensions	338 × 206 × 197mm	
Net weight	5.2 kg (MA.X2.A) 5.4 kg (MA.X2.IC.A)	
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*   optional design with halogen lamp – max temperature 250° C
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*** non-condensing conditions

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Dimensions

338

197

206

Accessories

Weighing Tables
• antivibration tables for laboratory balances

Special Purpose Weighing
• water vapour permeability determination set

Ambient Conditions
GT105K-12/Z control thermometer

Peripheral Devices
• Epson dot matrix printer
• barcode scanners

Consumables
• disposable pans

Cables, Converters
• P0108: RS 232 cable (balance-computer)
• P0151: RS 232 cable (balance - Epson printer)

Dedicated Software

LabView Driver
• operation of RADWAG balances in LabView environment

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

RADWAG Remote Desktop
• remote operation via computer, mobile phone or tablet
• sending text messages to the moisture analyzer
• version for Windows 10 and Android systems

E2R Moisture Analyzer
• drying programs synchronization
• online preview of the drying process
• drying processes record
• reporting of single and group drying operations

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