



X7 Series Laboratory Balances

radwag.com



X7 Series Laboratory Balances



X7 series laboratory balances are advanced solutions created technology reserved mainly for professional levels.

What you get is a professional device in an economic budget class, providing the user with the highest weighing accuracy and maximum operating comfort thanks to solutions such as:

- 7" colour touch screen display,
- screen personalisation via widgets
- multilingual interactive menu,
- non-contact operating sensors,
- GLP and GMP compliant,
- dynamic sample weight control (bargraph),
- statistics, recipes, reports and printouts,
- unlimited communication possibilities,
- ALIBI memory with recording of measurements,
- extensive databases,
- highest operating comfort,
- internal calibration (except MA X7.A).

Current mode setting menu

Quick access to a selection of working mods and their settings.

Touch-free operation sensors

Infrared sensors to provide non-contact operation of the balance within a user-defined range by programming selected functions.

Status bar

A field containing information on the currently used operating mode as well as on the most important metrological parameters of the balance, such as the model, maximum and minimum load, tare range, elementary unit and accuracy of reading.

Weighing result field

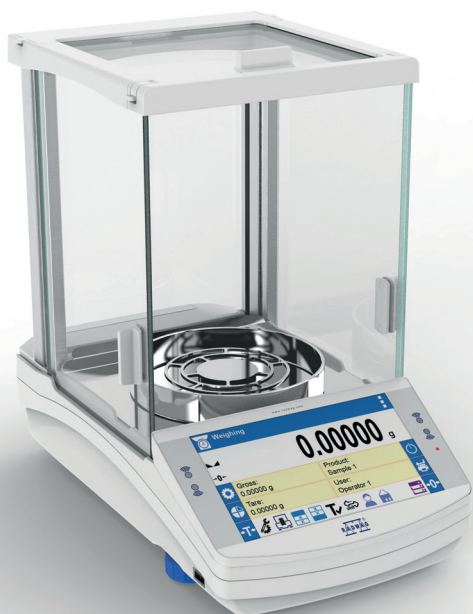
Large, clear weighing result field as the most important information in the balances, together with information on stabilisation.

Information fields and widgets

Customisable information that is displayed on the screen according to user preference.

Quick access buttons for balance functions and settings

Quick access to basic functions such as zeroing, taring or generating printouts.



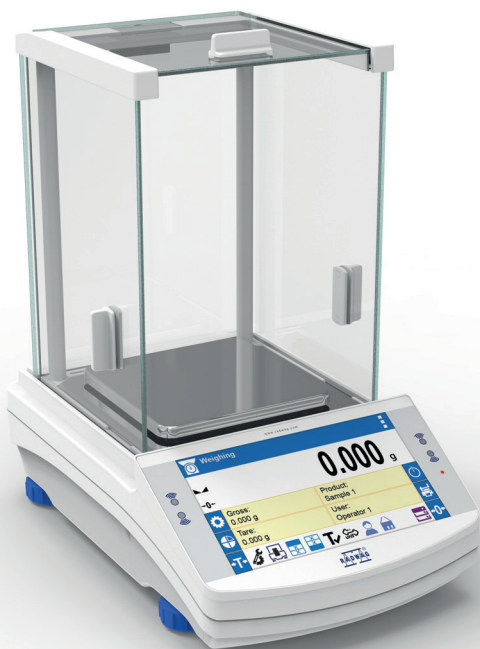
ANALYTICAL BALANCES

AS X7

Maximum capacity [Max]:
from 60 to 3100 g

Readability [d]:
from 0.01 to 1 mg

Weighing pan dimensions:
ø90 mm, ø100 mm, ø85 mm (option)



PRECISION BALANCES

PS X7, WLC X7

Maximum capacity [Max]:
from 200 to 21000 g

Readability [d]:
from 0.001 to 1 g

Weighing pan dimensions:
128x128 mm, 195x195 mm, ø100 mm



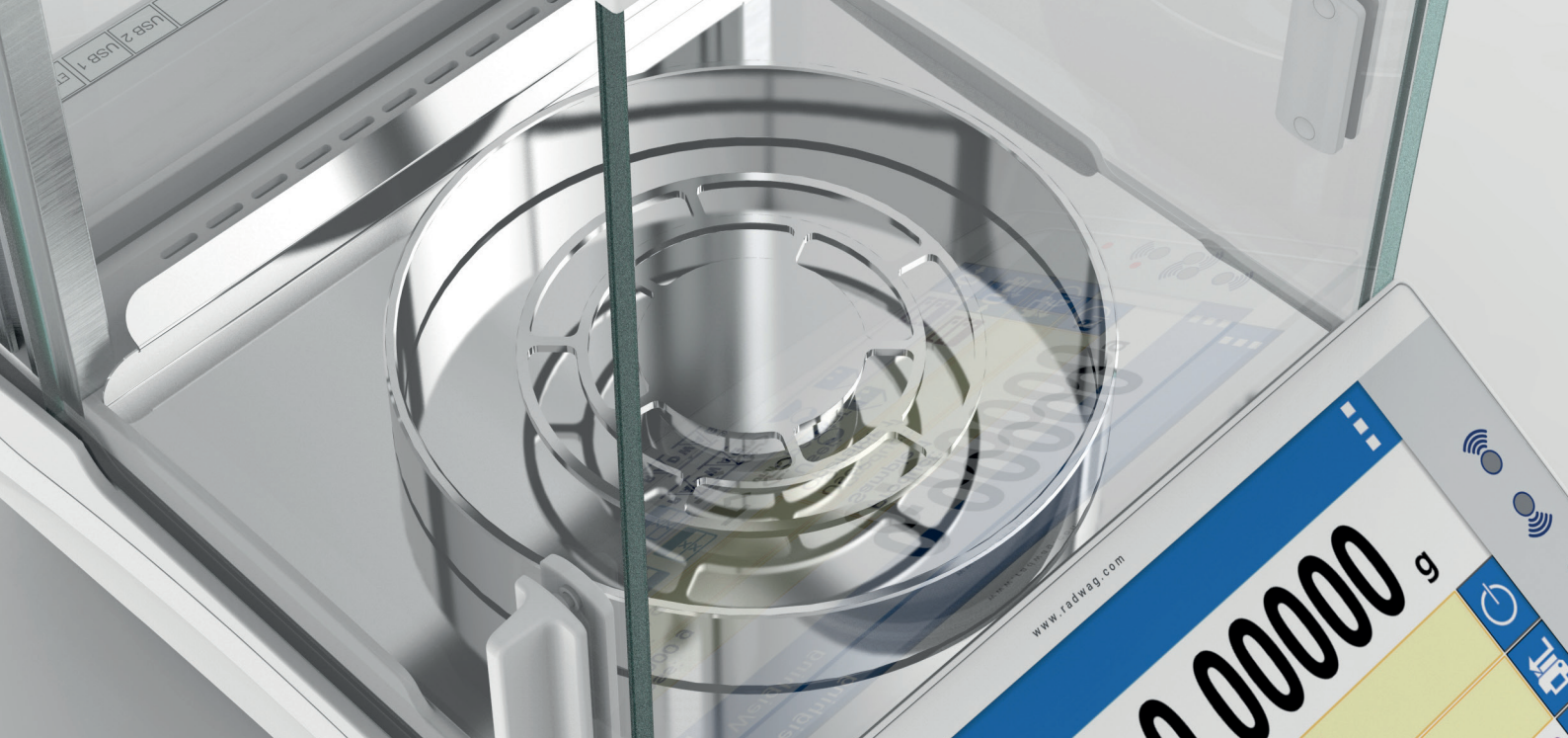
MOISTURE ANALYZERS

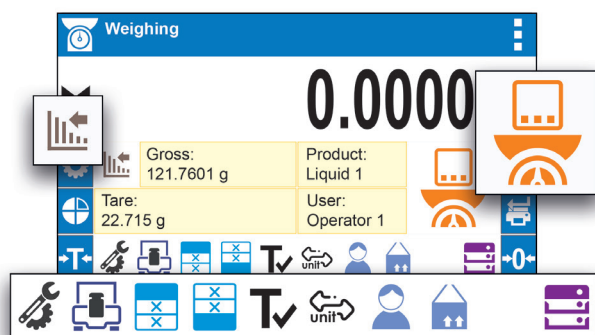
MA X7

Maximum capacity [Max]:
from 50 to 210 g

Readability [d]:
from 0.1 to 1 mg

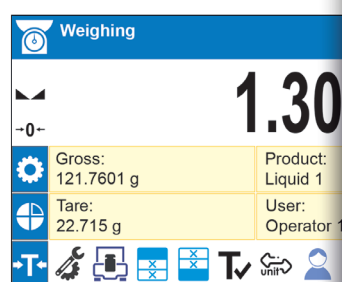
Weighing pan dimensions:
ø90 mm





Buttons adapted to the needs of the user

They allow a fast and reliable organisation of the weighing process through the selection of units of measurement, packages, customers or variable tare values. Thanks to the individually configurable set of buttons, they can be associated with a specific operating mode.



	Weighing
	Parts counting
	Checkweighing
	Dosing
	Percent weighing
	Density determination
	Formulation
	Statistics

Transparency of information for greater working comfort

The X7 balances focus on easy operation and intuitive communication with the user. The clear layout of information presented pictorially with icons facilitates the work with the balance, making it more user-friendly.

Databases and ergonomics in the weighing process

The IT structure of the X7 series balances operates using structured databases. The free programming of their contents allows the creation of a dedicated network of information that is precisely tailored to the specifics of the process being performed. The databases include components such as:

- 100 users
- 100 packages
- 100 warehouses
- 100 recipes
- 500 recipe reports
- 500 density reports
- 1 000 customers
- 5 000 products
- 50 000 weighings
- 512 000 ALIBI records

Databases

Density reports

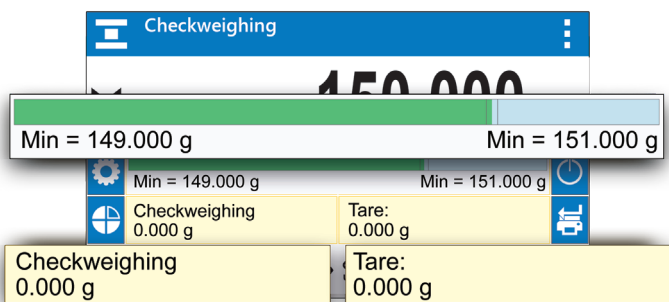
Customers

Products

Weighings

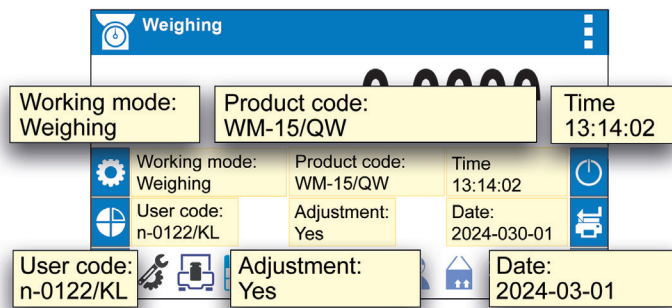
ALIBI records





Labels individually selected by the user

The labels on the X7 balances are predefined information fields displaying a variety of data, e.g. the name of the goods, the user, the date and time or the indication bargraph. It is up to the user of the balance to decide which of these are to be displayed on the Display.



Freely configurable text fields

Text fields work in a similar way to labels. They can be freely created and configured by the user. Each field can be individually named, assigned any function and value, and its size and position on the Display can be defined.



Accuracy of weighing at all temperatures and under all conditions

The production and control system of the X7 balances includes the process of observing and adjusting the accuracy in varying temperatures.

This is one of the most important parameters determining the metrological properties of the instrument. By minimising indication deviations, X7 balances ensure high measurement stability over a wide temperature range.

The X7 balances guarantee speed and accuracy of measurements of small and large masses, even under adverse conditions.



AS X7

USB-A on the front

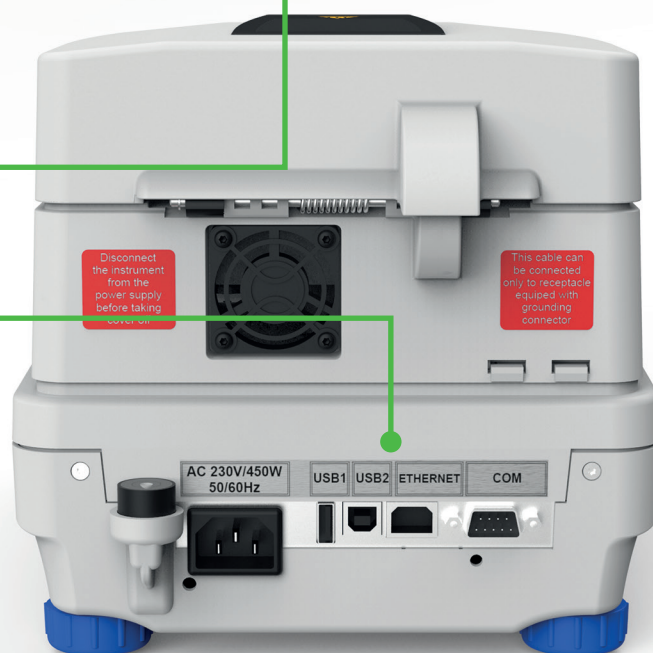


AS X7, PS X7 & WLC X7

USB-A, USB-B, Ethernet, 2 x RS 232

MA X7

USB-A, USB-B, Ethernet, RS 232

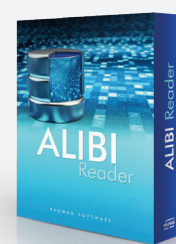


Communication interfaces

The integrity of the device in terms of information gathering is not always sufficient, which is why the X7 range of balances is equipped with a variety of communication options. Typical cable connections use USB-A, USB-B, Ethernet or RS 232 ports. The X7 series also has the option of connecting to other devices via Wi-Fi.

Security and data control

ALIBI memory guarantees data security and allows for the storage of 512000 records of weighings. Using the ALIBI Reader PC application, it is possible to view all weighings stored in the balance's memory, print and save reports. Weighing reports can be sent to external devices.

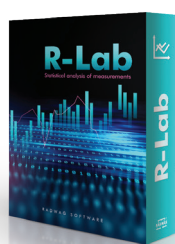




Reports and printouts that can be freely configured

On the X7 series balances, the weighing reports are divided into three configurable sections. The layout of each section can be freely designed in terms of content.

All X7 balances co-operate with dedicated RADWAG RTP thermal receipt printers wirelessly via Wi-Fi and other PCL-enabled computer printers via USB interface.



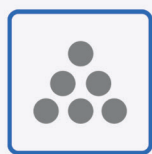
Printouts of measurements sent to computer programs

Measurements of the X7 series balances can be sent directly to RAD-KEY and R-Lab software.

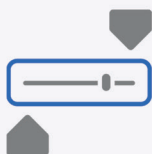
Working modes



Weighing



Parts
counting



Checkweighing



Dosing



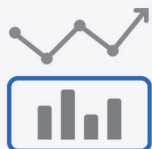
Percent
weighing



Density



Animal
weighing



Statistics



Peak hold



Formulations



SQC



Totalizing



Accessories

- Professional weighing workstations
- Anti-vibration tables
- Pipette calibration stations
- Density determination kits
- Receipt printers
- Ionisers
- Sample and filter holders
- Weighing bottles
- Barcode scanners
- Software
- THBR 2.0 system
- Additional displays
- Additional modules
- Protective covers
- Converters
- Cables
- Power supplies
- Carrying cases



Technical Specification

Model	Product code	Maximum capacity [Max]	Readability [d]	Standard Repeatability [5% Max]	Stabilization time
ANALYTICAL BALANCES AS X7					
AS 60/220.X7	WL-113-0009	60/220 g	0.01/0.1 mg	0.01 mg	2 s
AS 62.X7	WL-113-0010	62 g	0.01 mg	0.01 mg	2 s
AS 82/220.X7	WL-113-0011	82/220 g	0.01/0.1 mg	0.01 mg	2 s
AS 120.X7	WL-113-0002	120 g	0.01 mg	0.01 mg	2 s
AS 160.X7	WL-113-0003	160 g	0.1 mg	0.06 mg	2 s
AS 220.X7	WL-113-0004	220 g	0.1 mg	0.06 mg	2 s
AS 310.X7	WL-113-0005	310 g	0.1 mg	0.07 mg	2.5 s
AS 520.X7	WL-113-0008	520 g	0.1 mg	0.07 mg	2.5 s
AS 3100.X7	WL-113-0006	3100 g	1 mg	0.5 mg	2 s
PRECISION BALANCES PS X7					
PS 200/2000.X7	WL-226-0011	200/2000 g	1/10 mg	0.5/5 mg	2/1.5 s
PS 210.X7	WL-226-0012	210 g	1 mg	0.5 mg	2 s
PS 360.X7	WL-226-0014	360 g	1 mg	0.5 mg	2 s
PS 600.X7	WL-226-0015	600 g	1 mg	0.5 mg	2 s
PS 750.X7	WL-226-0016	750 g	1 mg	0.5 mg	2 s
PS 1000.X7	WL-226-0010	1000 g	1 mg	0.5 mg	2 s
PS 2100.X7	WL-226-0003	2100 g	10 mg	5 mg	1.5 s
PS 3000.X7	WL-226-0013	3000 g	1 mg	6 mg	3 s
PS 3500.X7.M	WL-226-0004	3500 g	10 mg	5 mg	1.5 s
PS 4500.X7.M	WL-226-0005	4500 g	10 mg	5 mg	1.5 s
PS 6100.X7.M	WL-226-0007	6100 g	10 mg	5 mg	1.5 s
PS 8100.X7.M	WL-226-0008	8100 g	10 mg	5 mg	1.5 s
PS 10100.X7.M	WL-226-0001	10100 g	10 mg	5 mg	1.5 s
PRECISION BALANCES WLC X7					
WLC 0.2.X7	WL-227-0001	0.2 kg	0.001 g	0.0014 g	2 s
WLC 2.X7	WL-227-0005	2 kg	0.01 g	0.015 g	2 s
WLC 6.X7	WL-227-0007	6 kg	0.1 g	0.1 g	2 s
WLC 10.X7	WL-227-0010	10 kg	0.1 g	0.08 g	2 s
WLC 1/10.X7	WL-227-0009	10 kg	0.01/0.1 g	0.015/0.08 g	4/2 s
WLC 20.X7	WL-227-0011	20 kg	0.1 g	0.1 g	3 s
WLC 21.X7	WL-227-0012	21 kg	1 g	0.8 g	3 s

Weighing pan dimensions	Adjustment	Display	Communication interfaces
ø90 mm , ø85 mm (option)	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø90 mm , ø85 mm (option)	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø90 mm , ø85 mm (option)	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø90 mm , ø85 mm (option)	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø100 mm	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø100 mm	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø100 mm	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø100 mm	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
ø90 mm	internal (automatic)	7" colour touchscreen	2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi®
128x128 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
128x128 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
128x128 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
128x128 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
128x128 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
128x128 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
128x128 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
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195x195 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
ø100 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	internal (automatic)	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	external	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	external	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	external	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®
195x195 mm	external	7" colour touchscreen	2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®

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

Technical Specification

Model	Product code	Maximum capacity [Max]	Readability [d]	Moisture content readability	Drying temperature
MOISTURE ANALYZERS WITH INTERNAL CALIBRATION MA X7.IC.A					
MA 50/1.X7.IC.A	WL-308-0028	50 g	0.1 mg	0.0001 %	Max 160 °C
MA 50/1.X7.IC.A.NS	WL-308-0029	50 g	0.1 mg	0.0001 %	Max 160 °C
MA 50/1.X7.IC.A.WH	WL-308-0001	50 g	0.1 mg	0.0001 %	Max 250 °C
MA 50.X7.IC.A	WL-308-0018	50 g	1 mg	0.001 %	Max 160 °C
MA 50.X7.IC.A.NS	WL-308-0019	50 g	1 mg	0.001 %	Max 160 °C
MA 50.X7.IC.A.WH	WL-308-0020	50 g	1 mg	0.001 %	Max 250 °C
MA 110.X7.IC.A	WL-308-0007	110 g	1 mg	0.001 %	Max 160 °C
MA 110.X7.IC.A.NS	WL-308-0008	110 g	1 mg	0.001 %	Max 160 °C
MA 110.X7.IC.A.WH	WL-308-0009	110 g	1 mg	0.001 %	Max 250 °C
MA 200/1.X7.IC.A	WL-308-0035	200 g	0.1 mg	0.0001 %	Max 160 °C
MA 200/1.X7.IC.A.NS	WL-308-0036	200 g	0.1 mg	0.0001 %	Max 160 °C
MA 200/1.X7.IC.A.WH	WL-308-0037	200 g	0.1 mg	0.0001 %	Max 250 °C
MA 210.X7.IC.A	WL-308-0043	210 g	1 mg	0.001 %	Max 160 °C
MA 210.X7.IC.A.NS	WL-308-0044	210 g	1 mg	0.001 %	Max 160 °C
MA 210.X7.IC.A.WH	WL-308-0045	210 g	1 mg	0.001 %	Max 250 °C
MOISTURE ANALYZERS WITH EXTERNAL CALIBRATION MA X7.A					
MA 50/1.X7.A	WL-308-0024	50 g	0.1 mg	0.0001 %	Max 160 °C
MA 50/1.X7.A.NS	WL-308-0025	50 g	0.1 mg	0.0001 %	Max 160 °C
MA 50/1.X7.A.WH	WL-308-0026	50 g	0.1 mg	0.0001 %	Max 250 °C
MA 50.X7.A	WL-308-0014	50 g	1 mg	0.001 %	Max 160 °C
MA 50.X7.A.NS	WL-308-0015	50 g	1 mg	0.001 %	Max 160 °C
MA 50.X7.A.WH	WL-308-0016	50 g	1 mg	0.001 %	Max 250 °C
MA 110.X7.A	WL-308-0003	110 g	1 mg	0.001 %	Max 160 °C
MA 110.X7.A.NS	WL-308-0004	110 g	1 mg	0.001 %	Max 160 °C
MA 110.X7.A.WH	WL-308-0005	110 g	1 mg	0.001 %	Max 250 °C
MA 200/1.X7.A	WL-308-0032	200 g	0.1 mg	0.0001 %	Max 160 °C
MA 200/1.X7.A.NS	WL-308-0033	200 g	0.1 mg	0.0001 %	Max 160 °C
MA 200/1.X7.A.WH	WL-308-0034	200 g	0.1 mg	0.0001 %	Max 250 °C
MA 210.X7.A	WL-308-0039	210 g	1 mg	0.001 %	Max 160 °C
MA 210.X7.A.NS	WL-308-0040	210 g	1 mg	0.001 %	Max 160 °C
MA 210.X7.A.WH	WL-308-0041	210 g	1 mg	0.001 %	Max 250 °C

Heating module	Weighing pan dimensions	Adjustment	Display	Communication interfaces
IR emitter	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
metal heater	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
halogen	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
IR emitter	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
metal heater	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
halogen	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
IR emitter	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
metal heater	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
halogen	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
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metal heater	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
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halogen	ø90 mm, h= 8 mm	internal (automatic)	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
IR emitter	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
metal heater	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
halogen	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
IR emitter	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
metal heater	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
halogen	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
IR emitter	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
metal heater	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
halogen	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
IR emitter	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
metal heater	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®
halogen	ø90 mm, h= 8 mm	external	7" colour touchscreen	RS232, USB-A, USB-B, Ethernet, Wi-Fi®

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