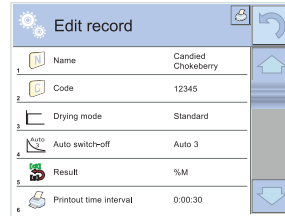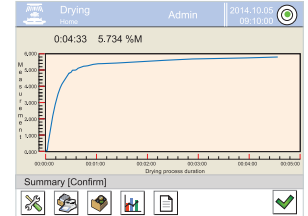**COFFEE LABORATORY**

MA 3Y Moisture Analyzers

Maximum functionality in drying processes, and moisture content analysis
Most Advanced Technology

Drying programs and finish modes database

Drying process vizualization

5.7" colour touch screen assuring intuitive operation

Functions

%M Moisture content analysis	Drying modes	GLP procedures
%D Dry mass determination	Drying process vizualization	Proximity sensors

Replaceable unit

Multilingual menu

Features

Maximum Measurement Precision with High Performance and Productivity
Ideal measurement parameters and high performance, make the the 3Y Series Moisture Analyzers usable for a vast range of moisture content determination processes.

Mass Measurement Accuracy and Drying Temperature Optimization
Smart control of the heating modules, guarantees optimum drying temperature, fast and precise measurement, and short analysis time, along with excellent repeatability throughout the measurement process. The user has numerous drying profiles available.

Online Drying Process Visualization
3Y Series Moisture analyzers enables display of dynamically registered graph that visualizes the drying process, and bar graph that controls sample's mass. With this the measurement process is monitored to the maximum.

Intuitive Operation and Touch Screen
5.7" colour touch screen enables intuitive operation and easy access to numerous applications and functions.

Automatic Level Control
Leveling system continuously monitors and controls the level state, and provides feedback about potential level deviations.

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

Databases as Drying Processes Support
Record sample-related information and drying parameters in the database.

Technical Specifications

|	QTY MA 60.3Y	QTY MA 200.3Y
Maximum capacity [Max]	60 g	200 g
Readability [d]	0.1 mg	1 mg
Tare range	–60 g	–200 g
Maximum sample weight	60 g	200 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	external
Display	5.7" colour, resistive touch screen	5.7" colour, resistive touch screen
Keypad	8 keys	8 keys
Heating module	IR emitter halogen lamp (option)** metal heater (option)**	IR emitter halogen lamp (option)** metal heater (option)**
Databases	10	10
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	sample traceability, drying process graph	sample traceability, drying process graph
USB-A	2	2
RS 232	1	1
Wireless connection	802.11 b/g/n	802.11 b/g/n
Ethernet	10 / 100 Mbit	10 / 100 Mbit
IN/OUT	4 × IN, 4 × OUT	4 × IN, 4 × OUT
Power supply	230 V	230 V
Power consumption	8 W (during weighing) and max 450 W (during drying)	8 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	436 × 250 × 190 mm	436 × 250 × 190 mm
Net weight	6 kg	6 kg
Gross weight	10 kg	10 kg
Packaging dimensions	595 × 395 × 420 mm	595 × 395 × 420 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

NOTES

DOWNLOAD FORM FIRST TO SUBMIT QUOTE REQUEST

Dimensions
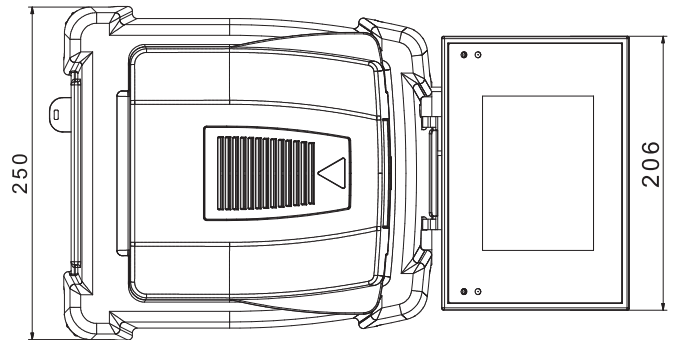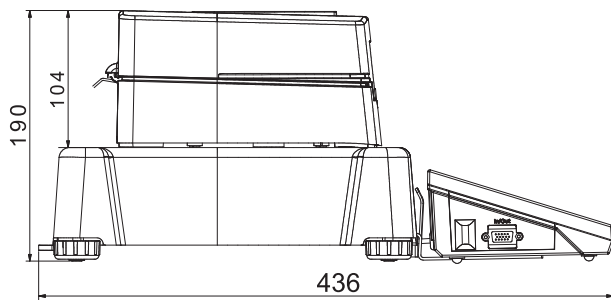
Accessories

Weighing Tables
• antivibration tables for laboratory balances

Special Purpose Weighing
• water vapour permeability determination set

Ambient Conditions
GT105K-12/Z control thermometer

Peripheral Devices
• dot matrix Epson printer
• barcode scanners

Consumables
• disposable pans

Cables, Converters
• P0108: RS 232 cable (balance-computer)
• P0167: RS 232 cable (balance-computer)
• P0151: RS 232 cable (balance - Epson printer)

Dedicated Software

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

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

RAD KEY
• Establishing cooperation between a weighing instrument and a computer

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

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

LabView Driver
• operation of RADWAG balances in LabView environment

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