



Sartorius MA 45
Real value in a compact
moisture analyzer



MA 45

100°C water
+ 0.670g

sartorius

Enter



Sartorius MA 45. The new benchmark in the compact range.

Sartorius MA45 – the next-generation moisture analyzer replacing the successful MA30 model already used by several ten thousands of customers all over the world.

More performance power, enhanced operating features, and a new design based on our proven, space-saving concept. An efficient, rugged unit designed to help you make short work of laboratory routine moisture analysis for quality control applications covering incoming inspection and in-process control.

- Compact, space-saving design
- Maximum weighing capacity of 45 g with 1-mg resolution
- Temperature range from 40°C to 230°C
- MA 30-compatible operating mode
- Optimized infrared heat source for fast and uniform heating of a sample
- New, especially rugged, monolithic weigh cell
- Choice of three modes for end-point determination of a measurement (fully automatic, semi-automatic and timer modes)
- Operation easy to learn
- GLP-compliant printouts
- Special version for compliance with FDA/HACCP regulations



Sartorius MA45. Mega-power in a minimum of space.



Weighing system

Weighing system

- Newly developed, rugged, monolithic double-lever system featuring a 45-g capacity and 1-mg resolution

The heat source

- Ceramic IR heating element; even distribution of IR rays over the entire surface ensures fast heating of samples
- Same design as in and compatible in temperature ranges with the Sartorius MA50C/MA100C premium moisture analyzers

Analysis modes

- Fully automatic; drying until constant weight is reached
- Semi-automatic; user-definable shutoff upon weight loss of 1–20 mg/24 sec.
- Timer mode; 0.1–99 minutes

Printouts

- Generated by external printer, YDP03-OCE
- GLP-compliant log (inalterable template) with a date and time stamp generated by the YDP03-OCE
- GLP-compliant log (inalterable template) also for calibration & adjustment of the temperature and weighing system
- Choice of manual, automatic or time-controlled printout mode

The design

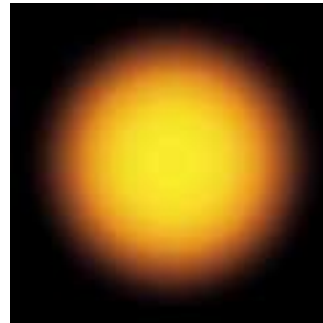
- Compact design; space-saving dimensions = small footprint
- Proven, manual flip-up cover opens wide for easy access to the chamber
- Easy to clean by removing the pan draft shield

Operating features

- Backlit display; easy to read even under poor lighting conditions
- Plain-text prompts combined with easy-to-understand symbols guide the operator through the menu as needed: the menu can be set to any of 5 languages
- Handy instructions in a fold-out post-card format with key information for operating the MA45



Heat source



Even distribution of heat



Printout



Design



Temperature adjustment set

Accessories for moisture analysis

- Dust cover for keypad (included with the MA 45)
- Glass fiber filters, 6906940, for liquid or pasty samples (optional)
- Aluminum panel replacement set, YDS04MA (optional), for retrofitting available analyzers for compliance with FDA or HACCP regulations that ban glass from production environments

Accessories for controlling the accuracy

- Temperature adjustment set, YTM03MA
- External 30-g calibration weight
- Standard operating instructions (SOP), YSL02MA

Accessories for documentation

- External data printer, YDP03-OCE
- Windows-compatible Moisture-Connect software, YMW02MA; for collecting data and generating graphics

Sartorius MA45. Specifications and accessories.

Max. weighing capacity (g)	45
Measuring accuracy of the weighing system (mg)	1
Repeatability, average (%) for initial sample weight approx. ≥ 1 g for initial sample weight approx. ≥ 5 g	± 0.2 ± 0.05
Readability (%)	0.01
Display mode for results	% moisture % dry weight (solids) % RATIO g residue g/kg residue
Moisture analysis modes	Fully automatic Semi-automatic, 1–20 mg/24 sec. Timer settings 0.1–99 min.
Sample heating	Infrared heating by ceramic heating element
Access to sample chamber	Hinged, flip-up cover that opens wide
Special version for compliance with FDA/HACCP regulations	With aluminum panels instead of glass panels
Temperature range and settings	40°C–230°C, adjustable in 1-degree increments from 40°C–160°C, adjustable in 1-degree increments (MA30-compatible heating mode)
Heating mode	Standard drying MA30-compatible heating mode
Operator guidance features	Context-sensitive menu with alphanumeric prompts and symbols
Number of program memories	3
Memory for data storage	Storage of final value until next measurement
Password protection	Against unauthorized changes to the parameter settings
Data printer	External (optional)
GLP-compliant printout	Inalterable standard configuration
Data interface port	RS-232C, for data transfer to a printer, PC or other computer
Dust cover	For the keypad (included with the MA45); for use during operation
Housing dimensions in mm	Width 213, depth 320, height 180.5
Weight, approx. (kg)	5.5
Accessories	Order No.
Disposable sample pans 80 units, aluminum, round, 90 mm \varnothing	6965542
Glass fiber filters for analysis of liquid, pasty and fatty samples, 80 units	6906940
Panel replacement set Aluminum panels for replacing glass panels to meet FDA/HACCP regulations (conversion kit)	YDS04MA
Windows-compatible MoistureConnect software for data collection, Windows® 95/98/NT-compatible, incl. interface cable, 9/25-pin	YMW02MA
Carrying case with space for the moisture analyzer, external printer and disposable sample pans	YDB05MA
Data printer for external connection to port	YDP03-OCE
Ink ribbon cartridge for data printer YDP03-OCE	6906918
Paper rolls for data printer YDP03-OCE, 5 rolls, each 50 m	6906937
Calibration weight, external 30 g \pm 0.3 mg	YSS43
Temperature adjustment set with manufacturer's certificate	YTM03MA
Standard operating procedure (SOP)	YSL02A

Sartorius AG
Weender Landstrasse 94-108
37075 Goettingen, Germany
Phone +49.551.308.0
Fax +49.551.308.3289
www.sartorius.com

Specifications subject to change
without notice.
Printed in Germany on paper that has been
bleached without any use of chlorine.
W/sart-095a · G
Publication No.: W--1089-e01111