

Sartorius® MA Series

Moisture Analyzers



MA35 Series



MA100 Series



MA150 Series

- Version with metal panels to meet FDA/HACCP regulations
- Equipped with two powerful metal tubular shaped heating elements (providing 360 Watts of power)
- Rugged double level system
- 1-mg resolution and 3g weighing capacity
- Optimized for use in high temperature ranges
- Concise display
- Icon-driven user interface
- Elimination of program selection menu
- Reduction of seldom-used programming options
- Fully automatic mode; sample is dried until weight is constant
- Time-controlled; 0.1-99 minutes
- Manual shutdown by user
- Printout generated by an external printer

Additional Features, MA100 & MA150

- Choice of either ceramic (C) infrared or halogen (H) heating element. MA100 has the choice of ceramic (C), Quartz (Q) or Halogen (H) heating. The MA150 is available with Ceramic or Quartz heating elements.
- Motorized heating element slides over sample to ensure stable initial weight reading
- In addition to time and automatic mode, for optimal results, the "asap" mode will automatically determine the best drying swift parameter mode
- MA35 has five program memories, MA150 has 20 program memories, and the MA100 has 30 program memories
- Backlit display ensures optimal readability under any lighting conditions
- ISO/GLP compliant printout capable with optional integrated printer
- Reptest (MA-100 only)
- Homogenous sample heating with a choice of ceramic radiator or CQR quartz heating element (both infrared) (MA150)

STANDARD FEATURES

- External calibration
- **Additional Features, All IR Moisture Analyzers**
- All units can show results in % moisture, % total solids, and remaining dry residue in weight
- Units will yield results in 5–15 minutes with automatic mode (depending on sample make-up size)

Additional Features, MA35

- Field-proven, manual flip-up cover
- Opens wide for excellent access
- Easy to clean
- Standard version with glass panels

SPECIFICATIONS

CAPACITY:

MA35: 35 g
MA100: 100 g
MA150: 150 g

READABILITY:

MA150: 1 mg (0.01%)
MA35, MA100: 0.1 mg (0.001%)

REPEATABILITY:

MA35, MA150: ≥ 1 g for samples $\pm 0.2\%$
 ≤ 5 g for samples ± 0.05 g
MA100: ≥ 1 g for samples 0.1%
 ≥ 5 g for samples $\pm 0.02\%$

DISPLAY MODE FOR RESULTS:

MA35: % moisture, % dry weight (solids), % RATIO, g residue
MA100: % moisture, % dry weight (solids), % RATIO, g residue, g/kg residue, mg weight loss, calculated value (measured value x factor)
MA150: % moisture, % dry weight (solids), % RATIO, g residue

HEATING MODE:

MA35: Standard drying
MA100: Standard drying, quick drying, gentle drying, phase drying
MA150: Standard drying, phase drying

ANALYSIS MODE

Fully automatic: MA100, MA150
Semi-automatic: MA100, MA150-1-50mg/5-300 sec., 0.1-5.0%/5-300 sec.
Timer settings: MA35, MA150-1x0.1-99 min.
MA100-3+0.1-999 min
Timer mode + fully/semi-automatic: MA100-2+0.1-999 min.+automatic

HEATING UNIT:

Ceramic IR heating element (infrared): MA100, MA150
Halogen lamp (infrared): MA100, MA150
CQR heater (coiled quartz radiator): MA100, MA150
Metal tubular-shaped heating element (infrared dark radiator): MA35

TEMPERATURE RANGE:

MA35 Series: (340°C to 160°C)
MA100 Series: (30°C to 200°C)
MA150: (40°C-220°C)

CALIBRATION:

MA35, MA150: External
MA100: Internal

CALIBRATION WEIGHT:

MA150 Series: 30 g
MA100 Series: 50 g

REPROTEST:

MA100

PAN SIZE:

$\varnothing 3.5$ in (90 mm) diameter

BAR CODE SCANNER:

MA100

WEIGHT:

MA150: 12.1 lb
MA35: 12.8 lb
MA100: 17.6 lb.

DIMENSIONS:

MA35: 8.7x7.1x7.4
MA100: 13.8x17.8x6.1
MA150: 8.4x12.6x7.1

INTERFACE:

MA35, MA150: RS-232C unidirectional
MA100: RS-232C bidirect;
RS-485 optional

DATA PRINTER:

Integratable (optional retrofitable): MA100
External (optional): MA35, MA100, MA150

WARRANTY:

Three-year limited warranty