

Ray'Ran



Advanced Moisture Analysers MB90 and MB120

RR-MB90 and RR-MB120

Simple, Powerful, Affordable

The MB90 and MB120 Professional Moisture Analysers combine a high quality, sleek, compact design that effectively and affordably measure moisture content for a wide variety of applications.

Geared to increase precision and efficiency, Moisture Analysers feature a precisely controlled halogen heating system, which helps to yield fast and repeatable results, with readability up to 0.01%. The robust housing and die-cast structure is designed for easy, tool-free cleaning and durability. You can access all of the MB120 and MB90's features and parameters on the easy-to-read colour touch screen display. The intuitive icon-based navigation guides users through every step of the operation process

The Temperature Guide helps to analyse a sample and determine the optimal drying temperature. A precisely controlled halogen heating system distributes heat uniformly over the sample, ensuring fast and repeatable results. Setup and operation are extremely easy. User selectable drying profiles for easy one-step drying and shut-off criteria to automatically end the test once moisture loss is no longer detected can be programmed. Test results are displayed in %moisture, %solids, %regain, time, temperature, weight, method name, drying curve and statistics

Designed with convenient maintenance in mind, no tools are required for cleaning these Moisture Analysers. Simply remove the glass and tray to clean the sample chamber. The robust housing and die-cast base guarantee durability

Testing Made Simple

The MB Series features a wide, bright touch screen display and intuitive menu navigation for fast, accurate moisture analysis.

- **Touch screen Display:** Easy to read and understand
- **Icon-Driven Menu Navigation:** Easy to follow, with no training required
- **4 Mechanical Keys for Fast One-Step Operation:** Tare, Start/Stop, Print, On/Off
- **USB and RS232 Ports:** Quick connections to a PC or flash drive

Moisture Analysis Made Simple: Just 3 easy steps for routine sample testing!

1. Tare empty sample pan
2. Add sample according to best practices
3. Press start and see your results!

Exceptional Precision

The MB120 and MB90 provide precise results for more confident testing.

- **Fast Infrared Halogen Heating Technology:** Halogen heating dries samples in seconds and performs up to 40% faster than traditional Infrared methods.
- **Uniform Drying for Precise, Repeatable Results:** The reflective sample chamber ensures uniform heating of each sample to yield reliable results of 0.01% readability.
- **Flexible and Powerful:** Features a full operating temperature range of 40–200°C (MB90) or 40–230°C (MB120) in 1-degree increments.
- **Four Drying Profiles to Ensure Accuracy (MB120):** Customize heating of specific samples with temperature control for one-step drying—set temperature and time and begin!
Fast: Quickest possible time to temperature
Standard: Minimal overshoot while achieving temperatures quickly
Ramp: Controlled ramping to temperatures
Step: Set three temperatures at three time intervals
- **Shut-Off Criteria for Automatic Test Completion (MB120):** Customize your own test endpoint criteria to automatically end the test once moisture loss is no longer detected. Choose from up to 7 criteria—Manual, Timed, Auto Free percent weight loss per second, Auto Free mg loss per second.

Contact Details

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Additional Features—MB90

ABS top housing, stainless steel pan support, stainless steel pan handler, in-use cover, 3 shut-off criteria (manual, timed or auto), 2 heating profiles (standard and fast), storage up to 2 methods and user guide, 40–200°C heating temperature range (1°C increments), 13 operational languages (display only, no key in)

MB90

Technical Specification

- Capacity 90g
- Repeatability (Std Dev) (g) 0.18% for 3g sample/ 0.02% for 10g sample
- Readability 0.01% / 0.001g
- 40°C - 200°C
- Moisture range 0.01% - 100% (0.01% - 1000% for regain mode)
- Halogen heating
- Sample pan size 90mm
- RS232/USB Interface
- Operating Temperature range 10 - 40°C
- Electrical characteristics 100 – 240VAC, 50/60Hz
- QVGA, TFT Touch screen display
- Results in %moisture, %solids, %regain, time, temperature, weight, method name, drying curve and statistics
- CE, CSA/UL and FCC approved

Optional Ancillaries

- In use cover
- Scoop
- Temperature Calibration Kit
- Anti theft device
- Aluminium Sample Pans (80/Box)
- Filter Glass Fibre(200/Box)
- Reusable Sample Pan 7mm (3/Box)
- Reusable Sample Pan 14mm (3/Box)
- Impact Printer
- Thermal Printer UK

Weights & Dimensions

Net Weight (kg)	5.3
Width (cm)	21
Depth (cm)	36
Height (cm)	18

Contact Details

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Additional Features—MB120

ABS top housing, stainless steel pan support, stainless steel metal pan handler, in-use cover, 7 shut-off criteria (manual, timed, auto free %/s, auto free mg/s, A30, A60 and A90), 4 heating profiles (standard, fast, ramp and step), user guide, 40–230°C heating temperature range (1°C increments), 13 operational languages (display only, no key in)

MB120

Technical Specification

- Capacity 120g
- Repeatability (Std Dev) (g) 0.05% for 3g sample/ 0.015% for 10g sample
- Readability 0.01% / 0.001g
- Temperature range 40°C - 230°C
- Moisture range 0.01% - 100% (0.01% - 1000% for regain mode)
- Halogen heating
- Sample pan size 90mm
- RS232/USB Interface
- Operating Temperature range 10 - 40°C
- Electrical characteristics 100 – 240VAC, 50/60Hz
- QVGA, TFT Touch screen display
- Results in %moisture, %solids, %regain, time, temperature, weight, method name, drying curve and statistics
- CE, CSA/UL and FCC approved

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