**NOW AVAILABLE WITH**

**SMART GUIDE™**

## Faster, Smarter, More Efficient Moisture Analysis

Moisture affects everything we use on a daily basis therefore in many cases it is important to be able to accurately determine the moisture content of samples. Equipped to handle routine and sophisticated measurements, our flagship MB120 moisture analyzer makes the whole process faster, easier, and more efficient. The MB120 allows you to analyze more samples, access saved data, and spend less time prepping and more time putting your results to work.

### Unique Features:

- Get started quickly with SmartGuide™. This revolutionary feature automatically analyzes a sample and creates a method, thereby removing the guesswork from the initial setup.

- The MB120 has the capability to produce fast and accurate results due to features such

  as
  a halogen heating system, customizable shut-off criteria and four built-in drying profiles.

- The MB120's allows storage of up to 100 methods and 1,000 measurement results.

  Stored
  results can be exported and methods can be shared across multiple devices.

# MB120 Moisture Analyzer

## Simple and Powerful Moisture Analysis

**• SmartGuide™**

SmartGuide™ automatically analyzes a sample and creates a method, simplifying the method creation process and removes the guesswork from the initial setup.

**• Fast and Efficient Halogen Heating Technology**

Halogen heating dries samples efficiently and in a fraction of the time versus a traditional loss on drying measurement with an oven. The MB120 has a full operating temperature range of 40–230 °C, settable in 1-degree increments.

**• Uniform Drying for Precise, Repeatable Results**

The reflective sample chamber ensures uniform heating of each sample to yield reliable results of 0.01 % readability.

**• Four Drying Profiles**

Customize heating of specific samples with various drying programs; Standard, Fast, Ramp, and Step.
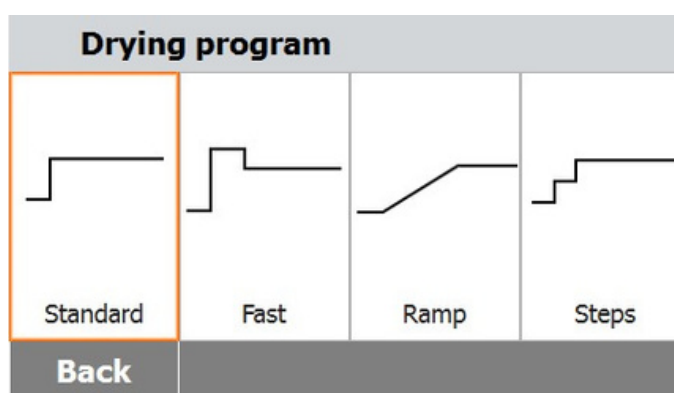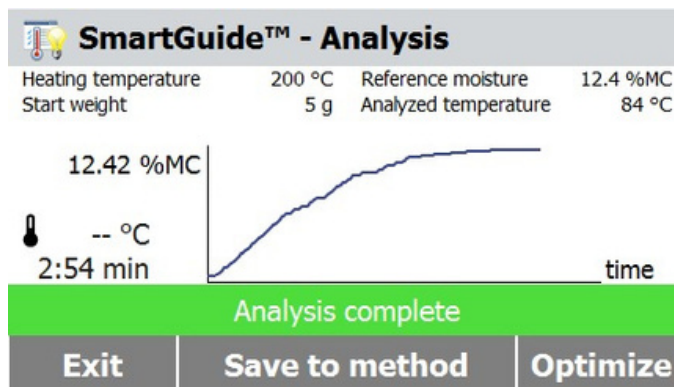
**Fast:** Quickest possible time to temperature

**Standard:** Minimal overshoot while achieving temperatures quickly

**Ramp:** Controlled ramping to temperatures

**Step:** Set three temperatures at three time intervals

**• Flexible and Configurable Shut-Off Criteria**

Customize your own test endpoint criteria to automatically end the test once moisture loss is no longer detected. Choose one of the built-in standard criterion or define your own.

# MB120 Moisture Analyzer



## Advanced Functionality

### • Internal Method Library
Store methods for up to 100 different samples - methods can be easily recalled and transferred to other units for quick setup.

### • Internal Result Storage
The MB120 will store 1000 results which can be printed or exported via USB memory stick as a group or individually for further analysis.

### • User Management
With User Management, MB120 provides operational control and aids compliance by restricting access so that unauthorized users may use the device but not change settings.

### • RS232 and USB Ports
Quick connections to a printer, PC or flash drive.

## Easy to Use and Maintain

### • Graphic Display with Touchscreen
Navigate the device easily with an intuitive user interface on a bright, color, and easy-to-read graphic display

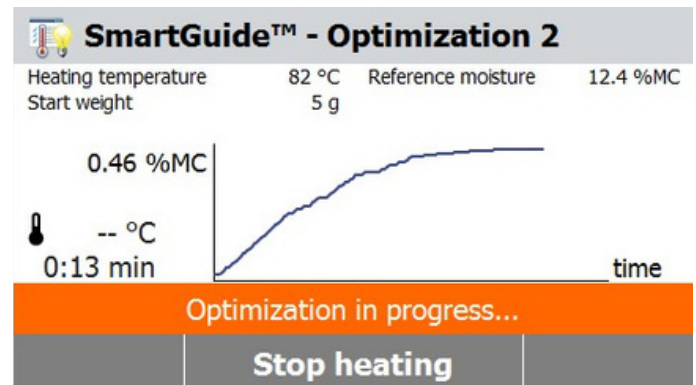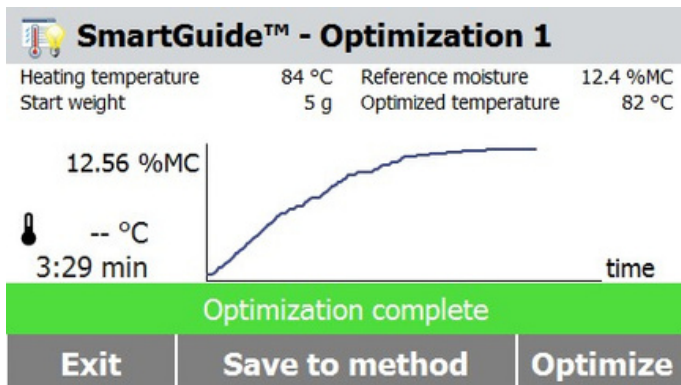### • Icon-Driven Menu Navigation
Easy to follow — no training required.

### • 4 Mechanical Keys for Fast One-Step Operation
Tare, Start/Stop, Print, On/Off

### • Easy Tool-Free Cleaning
Stainless steel surfaces are resistant to corrosion and wipe down quickly. Heating chamber components can be easily removed for easy cleaning - no tools required.

# MB120 Moisture Analyzer

| Model | MB120 |
|---|---|
| Capacity | 120 g |
| Readability | 0.01 % / 0.001 g |
| Repeatability (Std Dev) (g) | 0.05 % (3 g sample)<br>0.015 % (10 g sample) |
| Moisture Range | 0.01 % to 100 %<br>(0.01 % to 1000 % for regain mode) |
| Output | RS232, USB host, USB device |
| Heating Element | Halogen |
| Temperature Range | 40 – 230 °C (1 °C Increments) |
| Power | 120 or 240 VAC 50/60 Hz |
| Operating Temperature Range | 10 – 40 °C |
| Display Type | 109 mm, QVGA, TFT touch screen |
| Display Results | %moisture, %solids, %regain, time, temperature, weight, method name, drying curve and statistics |
| Pan Size | 90 mm |
| Dimensions (W × H × D) | 211 × 180 × 355 mm |
| Net Weight | 5.23 kg |
| Shipping Weight | 8.35 kg |

## Compliance

• **Product Safety:** IEC/EN 61010-1; IEC/EN 61010-2-010; CAN/CSA C22.2 61010-1; CAN/CSA C22.2 61010-2-010; UL 61010-1; UL 61010-2-010 • **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic environments; FCC Part 15 Class A; Canada ICES-003 Class A

• **Compliance Marks:** CSA, CE, RCM, WEEE
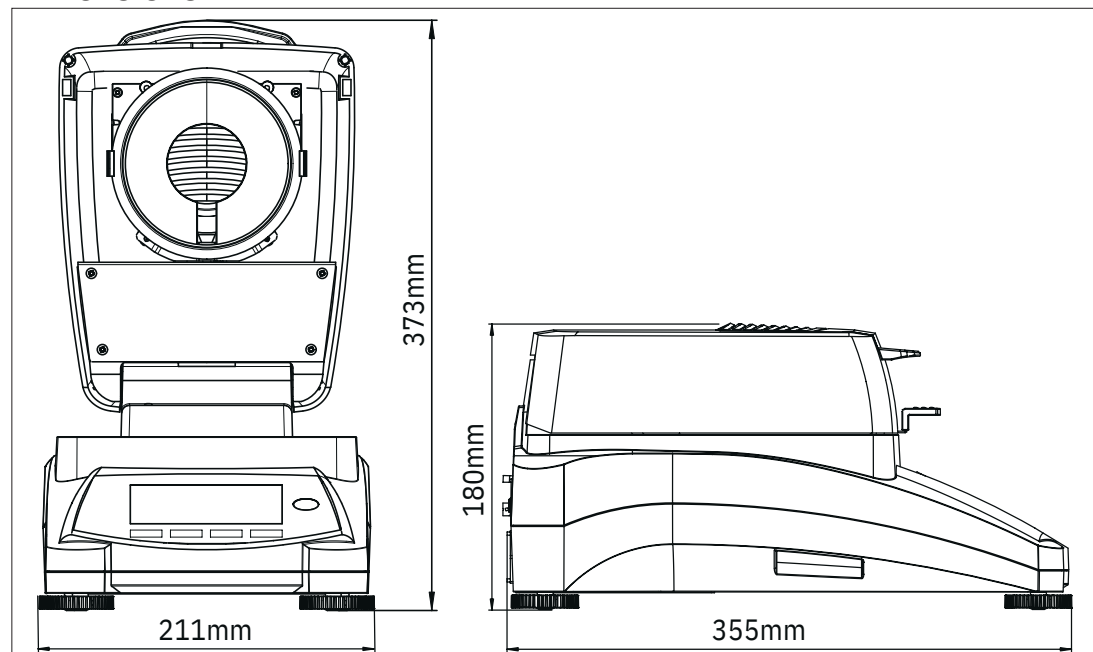
## Additional Features

ABS top housing, stainless steel pan support, stainless steel metal pan handler, in-use cover, Seven shut-off criteria (manual shut-off with pre-set time, timed, autofree %/s, autofree mg/s, A30, A60 and A90), Four heating profiles (standard, fast, ramp and step), user guide, 13 operational languages (display only, no key in)

## Accessories

**Pan Handler** ................................. 30246947 **In-Use Cover**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 30284478 **Scoop** ....................................... 30284477 **Temperature Calibration Kit** ................. 11113857 **Anti-Theft Device** ............................ 80850043 **Aluminum Pan (50)** .......................... 30585411 **Glass Fiber Pads (200)** ....................... 80850087

**Cage, Sample** ................................. 80252477 **Reusable Pan (3), 7 mm High** ................. 80252478 **Reusable Pan (3), 14 mm High** ................ 80252479 **SF40A Impact Printer** ........................ 30064202 **Interface Kit, RS232-USB**. . . . . . . . . . . . . . . . . . . . . . .30304101 **Interface Kit, RS232-Ethernet** ..................30304102

## Dimensions



373mm

180mm

211mm

355mm

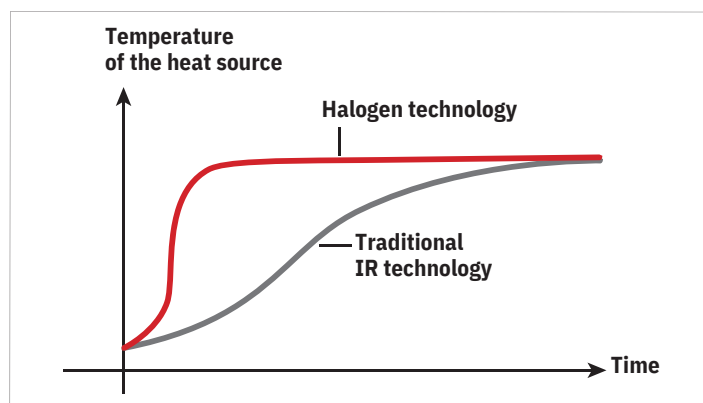80776019_F 202107.21 © Copyright OHAUS Corporation

## Simple Operation. Precise Results.

Measuring moisture content has never been easier than with the MB90 Moisture Analyzer. The MB90's halogen heating distributes heat uniformly over the sample and speeds up the drying process, delivering fast and precise measurements. Designed for tool-free cleaning, its components can be easily removed for quick and easy maintenance. Operating the MB90 is intuitive with the icon-driven menu navigation on the touchscreen display.

### Unique Features Include:
- Halogen heating increases efficiency for faster results.
- Intuitive touchscreen menu offers step-by-step guidance for any application.
- Tool-free cleaning for easy maintenance.

# MB90 Moisture Analyzer


Fast Heating Time


Uniform Drying

## Exceptional Precision
### The MB90 provides precise results for more confident testing.

- **Fast 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 in 1 degree increments.

- **Two Drying Profiles to Ensure Accuracy**
  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

- **Shut-Off Criteria for Automatic Test Completion**
  Customize your own test endpoint criteria to automatically end the test once moisture loss is no longer detected. Choose from 3 criteria—Manual shut-off with pre-set time, Timed and Auto.

## Easy Tool-Free Cleaning
### The MB90 features a patented pan handler and removable parts for convenient maintenance.

- **Stainless Steel Drying Pan**
  Wipe down quickly
- **Removable Heating Chamber Components**
  No tools required—simply remove glass and tray to clean

# MB90 Moisture Analyzer

## Testing Made Simple
**The MB90 features a wide, bright touchscreen display and intuitive menu navigation for fast, accurate moisture analysis.**

- **Touchscreen Display**

Easy to read and understand

- **Icon-Driven Menu Navigation**

Easy to follow—no training required

- **4Mechanical 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!



## Multiple Ways to Connect
**Versatile connectivity options to handle data collection and transfer needs—enhancing the user experience.**

- **USB and RS232 Ports**
  Quick connections to a PC or flash drive
- **Data Collection and Transfer**
  You can simply save and transfer data from the moisture analyzer to a USB drive

# MB90 Moisture Analyzer

| Model | MB90 |
|---|---|
| Capacity | 90 g |
| Readability | 0.01%/0.001 g |
| Repeatability (Std Dev) (g) | 0.18% (3 g sample)<br>0.02% (10 g sample) |
| Moisture Range | 0.01% to 100%<br>(0.01% to 1000% for regain mode) |
| Output | RS232, USB Host, USB Device |
| Heating Element | Halogen |
| Temperature Range | 40–200 °C |
| Power | 240 VAC 50/60 Hz |
| Operating Temperature Range | 10–40 °C |
| Display Type | 109 mm, QVGA, TFT touch screen |
| Display Results | %moisture, %solids, %regain, time, temperature, weight, method name, drying curve and statistics |
| Pan Size | 90 mm |
| Dimensions (W × H × D) | 211 × 180 × 355 mm |
| Net Weight | 5.23 kg |
| Shipping Weight | 8.35 kg |

## Compliance
• **Product Safety:** IEC/EN 61010-1; IEC/EN 61010-2-010; CAN/CSA C22.2 61010-1; CAN/CSA C22.2 61010-2-010; UL 61010-1 • **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic environments; FCC Part 15 Class A; ICES-003 Class A
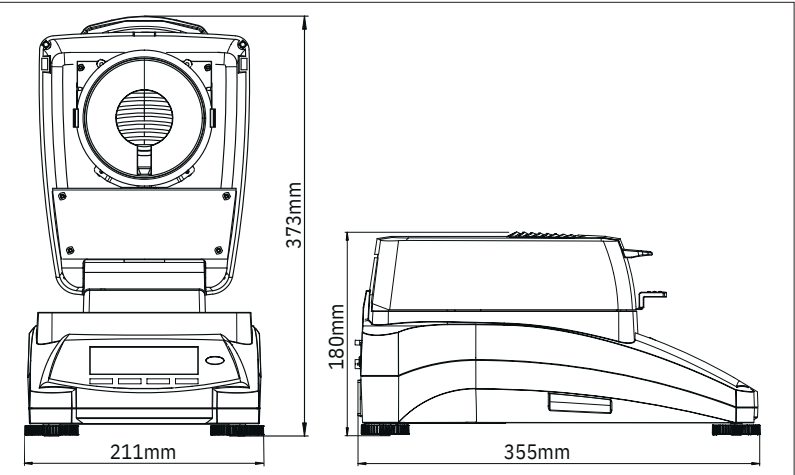
## Additional Features
ABS top housing, stainless steel pan support, in-use cover, storage up to 2 methods and 100 test results in total, user-guide, 14 operational languages

## Accessories
**Temp. Calibration Kit, MB Series .............11113857 In-Use-Cover, MB90 MB120 .................30284478 Pan Holder, MB120&MB90 .................30246947 Pan, Reusable, Set(3), 7mm, MB Series .......80252478 Pan, Reusable, Set(3), 14mm, MB Series ......80252479 Pan, Aluminum, Set(50), MB Series ..........30585411 Filter, Glass Fiber, Set(200) .................80850087 Cage, sample ..............................80252477 Anti-Theft Device, MB AX EX Scout ..........80850043 Scoop, Accessory, MB9x, MB120 .............30284477 Printer, Impact, SF40A (EU) ..................30064202 Interface Kit, RS232-USB ....................30304101 Interface Kit, RS232-Ethernet ...............30304102**

## Outline Dimensions



373mm
180mm
211mm
355mm

## Outstanding Performance, Flexible Configuration and Reliable Results

The new OHAUS MB27 Basic Moisture Analyzer combines high quality and durable construction into a sleek, compact design. The MB27 offers dependable, accurate results for a wide variety of moisture analysis applications.

### Standard Features Include:

- With 0.01% 0.001g accuracy, the MB27 Moisture Analyzer is suitable for most applications. • Halogen heating and dual weight-temperature calibration provide fast, reliable results.
- User-friendly touch-button design for easy operation.

# MB27 Moisture Analyzer

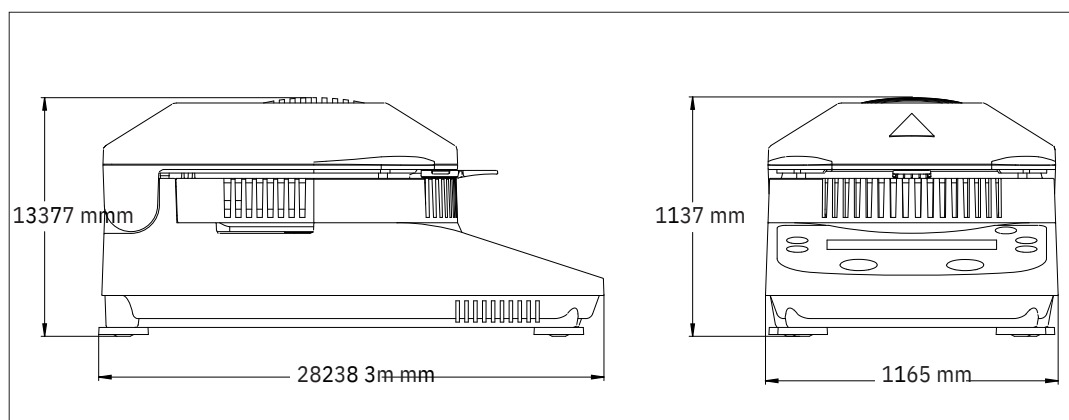| Model | MB27 |
|---|---|
| Capacity | 90 g |
| Repeatability (Std Dev ) (g) | 0.2% (3 g sample)<br>0.05% (10 g sample) |
| Readability | 0.01%/0.001 g |
| Sample size | typical: 3g - 20gminimum: 0,5g |
| Interface | Bidirectional RS232 |
| Timer | 1-99 minutes, 30-second increments to 60 minutes |
| Heating Technology | Halogen |
| Temperature Range | 50 °C to 160 °C in 5 °C increments |
| Power | 100 to 240 VAC, 50/60 Hz |
| Tare Range | To capacity by subtraction |
| Operating Temperature Range | 5 °C to 40 °C |
| Display Type | Backlit LCD |
| Displays | %moisture or %solids or weight (g), temperature, time |
| Pan Size (Diameter) | 90 mm |
| Dimensions (W × H × D) | 17 × 14 × 28 cm |
| Net Weight | 2.3 kg |
| Shipping Weight | 3.9 kg |

## Compliance
• **Product Safety:** IEC/EN 61010-1, IEC/EN 61010-2-010
• **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic environments

## Accessories
**Temperature Calibration Kit, MB Series** .......11113857 **Anti-Theft Device** ............................80850043 **Aluminum Sample Pans, 80 Pcs** ...............80850086 **Pads, Glass Fiber, Qty 200 Pcs** ................80850087 **In-Use-Cover** .................................80252475 **Pan Holder, MB Series** ........................80252476 **Sample Cage, MB Series** ......................80252477 **Reusable Sample Pans, 3 Pcs, 7mm, MB Series** 80252478 **Reusable Sample Pans, 3 Pcs, 14mm, MB Series**80252479 **Impact Printer SF40A** .........................30064202 **Thermal Printer, STP-103, EU** .................80251993

## Outline Dimensions



13377 mmm

28238 3m mm

1137 mm

1165 mm

## Speed, Simplicity and Affordability

The new OHAUS MB23 and MB25 Basic Moisture Analyzers combine high quality and durable construction into a sleek, compact design. The MB23 and MB25 offer dependable, accurate, results for a wide variety of applications.

## Unique Features:

- **Flexible Performance**—The OHAUS MB23 and MB25 provide accurate results at either 0.1% or 0.05% readability. And with your choice of infrared or halogen heating, they are ideal for textiles, wastewater, ceramics, food and other applications that require IR heating elements and measurements to 0.1% or 0.05%.

- **Simple to Operate**—Set up and operation is extremely easy. Just press and hold the temperature or time buttons to set drying parameters, add your sample and begin the test process. This makes the MB23 and MB25 ideal for routine tasks performed by operators of all skill levels.

- **Compact, Easy-to-Clean Design**—The compact footprint (17 x 13 x 28 cm) of the OHAUS MB23 and MB25 is designed to take up less space. Their easy-to-clean heating chamber is ideal for frequent use and inexpensive maintenance.

# MB23 and MB25 Moisture Analyzers

MB23

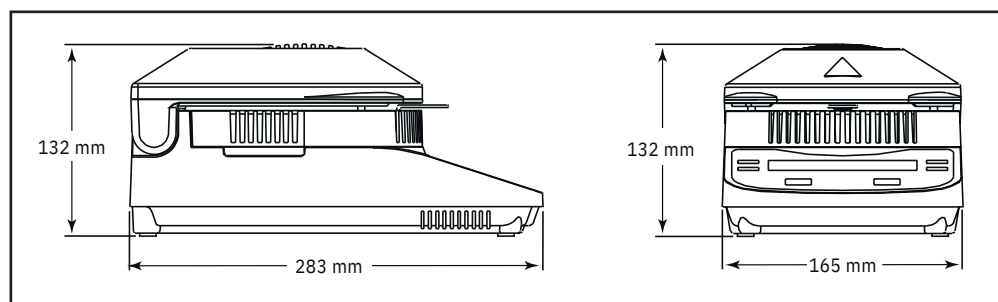| Model | MB23 | MB25 |
|---|---|---|
| Capacity | 110g | |
| Repeatability (Std Dev) (g) | 0.3% (3g sample) 0.2% (10g sample) | 0.2% (3g sample) 0.05% (10g sample) |
| Readability | 0.1% / 0.01g | 0.01% / 0.005g (<10g sample) 0.05% / 0.005g (>10g sample) |
| Sample Size | 3g to 20g typical, 0.5g min. | |
| Interface | Bidirectional RS-232 | |
| Timer | 1 - 99 minutes, 30-second increments to 60 minutes | |
| Heating Technology | Infrared (no glass) | Halogen |
| Temperature Range | 50°C to 160°C in 5° increments | |
| Power | 100 to 240 VAC, 50/60 Hz | |
| Tare Range | To capacity by subtraction | |
| Operating Temperature Range | 5°C to 40°C | |
| Display Type | Custom backlit LCD | |
| Displays | % moisture or % solids or weight (g), temperature, time | |
| Pan Size (Diameter) | 90 mm | |
| Dimensions (W x H x D) | 17 x 13 x 28 cm | |
| Net Weight | 2.3 kg | |
| Shipping Weight | 3.9 kg | |
| Sample Pans (Quantity 50) | Standard | |
| In Use Cover | Standard | |
| Models are CE, CSA/UL and FCC approved | | |

## Compliance
- **Product Safety:** IEC/EN 61010-1, IEC/EN 61010-2-010
- **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic environments

## Accessories
**Temp. Calibration Kit, MB Series** ..................................11113857 **In-Use-Cover, MB23 MB25** .......................................80252475 **Holder, Pan, MB Series** ...........................................80252476 **Pan, Reusable, Set(3), 7mm, MB Series** ............................80252478 **Pan, Reusable, Set(3), 14mm, MB Series** ..........................80252479 **Pan, Aluminum, Set(50), MB Series** ...............................30585411 **Filter, Glass Fiber, Set(200)** ......................................80850087 **Cage, sample** ....................................................80252477 **Anti-Theft Device, MB AX EX Scout** ...............................80850043 **Printer, Impact, SF40A (EU)** .......................................30064202 **Interface Kit, RS232-USB** .........................................30304101

## Outline Dimensions



132 mm — 283 mm

132 mm — 165 mm