



# MB45

The Advanced Halogen Moisture Analyser

## The standard in high performance moisture content determination

To accurately meet the criteria for a wide variety of samples and applications in diverse industries, from pharmaceutical and chemical to food, textile, wastewater etc. the MB45's **customisation capability** and **flexible heating methods** are indispensable. For a **perfect correlation with reference methods** and optimum performance, the MB45 features **enhanced heating possibilities** (up to 200°C in 1°C increment), unique **auto shut-off options** and an **integrated database**. Coupled with a **readability of 1mg** and **repeatability to 0.015%** of moisture (using 10g sample), the MB45 is the standard in high performance moisture content determination.



Fast halogen heating

### Graphical display

With multi-language display text, contrast and brightness adjustment, the large backlit LCD display offers easy viewing of all processes and data (including drying curves) and guides users through application use and setup.

### Statistics, GLP/GMP printing

The MB45's statistical function allows simple tracking and recording of standard deviation over time. The MB45 does all the calculations and provides the end result. This function is perfect for Quality Control and Assurance applications.

For traceability, Good Laboratory Practice and Good Manufacturing Practice, test data including weight and temperature calibrations can be printed.

A complete report on the analysis can also be documented via the RS232 port (including time and date).

MOISTURE DETERMINATION	
Switchoff mode	Auto 60
Dry Profile	Standard
Drying Temp.	100C
Result	%Moisture
Initial Weight	10.098G
00:30 Min	-9.17 %MC
01:00 Min	-12.35 %MC
01:30 Min	-15.28 %MC
02:00 Min	-21.94 %MC
⋮	
03:13 Min	-24.64 %MC
⋮	
05:00 Min	-29.36 %MC
05:21 Min	-31.94%MC
Elapsed Time	05:21 Min
Final Weight	9.085G
Final Result	-31.94 %MC
---07/17/2000---	15:35
-----END-----	





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The MB45 allows the user to customise the sample drying profile with a selection of heating options and criteria's to end a test. By customising the drying program, moisture measurements can be optimised to enhance drying conditions and shorten run time while minimising sample decomposition or change in chemical structure. Ultimately, this improves testing accuracy and reproducibility.



### Enhanced Heating Options

Sample heating is dependant on the material and its absorbent properties at the surface of the sample. To take this into account, the MB45 offers four temperature profiles, all of which can be customised for temperatures ranging between 50°C and 200°C.

#### Standard

- For minimal overshoot while achieving temperatures quickly
- Useful for most samples

#### Fast

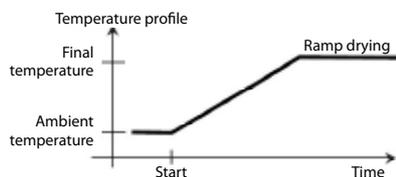
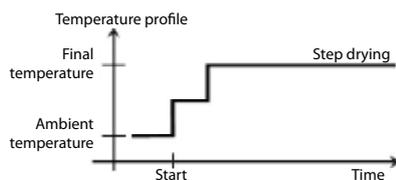
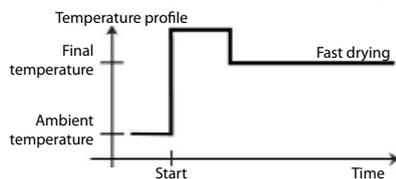
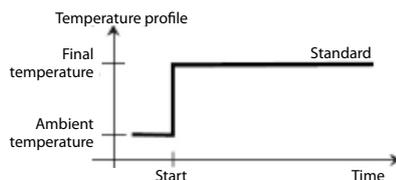
- For quickest possible time to temperature
- Most suitable for temperature resistant samples and those with 5-15% moisture content

#### Step

- Set three temperatures for difficult samples ie. with moisture content >15%
- Allows for tighter control of the drying temperature
- Allows for two stage drying, measurement of surface water, followed by higher temperatures and measurement of bound water

#### Ramp

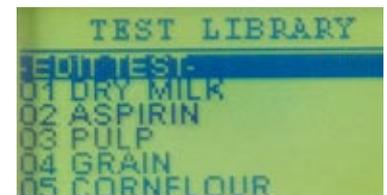
- For controlled ramping to temperatures
- Most applicable to heat sensitive samples
- Gentle ramping protects the sample to the full power of the halogen heater



### Unique Auto Shut-Off Options

Switch-off criteria for the MB45 define when the instrument should end a test. This can be done manually, but Auto shut-off options ensure accurate and reproducible results. The three pre-programmed end points for automatic test completion are:

1. **Timed Instrument** shuts off automatically at a preset time during analysis.
2. **Auto Instrument** automatically shuts off, based on weight loss per unit time.
3. **Auto free switch-off** allows the user to define shut off criteria according to weight loss per unit time.



### Test Library & integrated database

The integrated database stores up to 50 drying procedures for maximising productivity.

- **Powerful** - programme and recall up to 50 drying procedures (in 5 languages)
- **Easy** - once programmed, simply select and run test. Ideal for operators of all skill levels.
- **Flexible** - allows simple test editing to find best results

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