

INFRARED MOISTURE BALANCES

Kett

SCIENCE OF SENSING

Model 240, 100, and 620



Kett

Tomorrow's Testing, Today !
1-800-438-5388

Moisture Determination Balances

Why Measure Moisture?

The amount of moisture in a product can greatly affect perceived quality, and is also very important when making transactions based on weight. Small errors in measurement can have very large repercussions. For these reasons, it is crucial to have accurate moisture content readings when performing inspections and examinations, to maintain and adjust quality, and to ensure equitable transactions.



Moisture content testers were developed to obtain accurate measurements of these subtle yet important values. As a pioneer in the field of moisture content testers, Kett has developed a large variety of models for different materials, applications and purposes. These products help our customers to meet worldwide specifications and standards.

Who Can Use A Moisture Balance?

The vast number of products and applications affected by moisture content may be surprising:

- Food & Beverages
- Pharmaceuticals
- Minerals & Chemicals
- Plastics & Composites
- R&DLaboratories
- Pulp & Paper
- Textiles
- Cosmetics
- Paints & Coatings
- Regulatory Agencies

The list is virtually endless. Do you fall into the category of businesses requiring accurate moisture readings?

Why Use Kett Moisture Balances?

The selection of a moisture determination balance that meets the needs of your company is essential. After all, it is not only your product quality at stake...the Kett line will be a vital asset of your company's reputation!

Kett moisture determination balances utilize the same principle as the internationally accepted air-oven method for moisture determination. The sample is heated and dried. The weight changes due to evaporation are measured. This correlates into moisture content or solid component percentages.

Requiring no calibration, Kett moisture balances save time and money over conventional ovens...samples that took hours for moisture determination can now be measured in a matter of minutes.

Kett moisture balances are simple, economical tools that will aid many of your company's applications. Virtually anyone can produce accurate and repeatable measurements without extensive operator training.

Model 100

The FD-100 provides a fast-drying mode in addition to the standard measurement modes. A ceramic heater offers a lifetime of dependable use. This model has the widest range of applications available in the Kett line.



Industry Standard

Years of development have made the FD-100 one of the most popular moisture balances in use today. Automatic zero-taring eliminates the zero drift problem associated with most electronic balances.

Fast Drying Measurement Mode

Ceramic heating provides very stable heat distribution, allowing samples to be "fast dried" without scorching.

Which Kett Do You Need?

Kett offers a collection of standard features generally only available on high-priced units. A "settings" memory allows the operator to perform tests on the same sample type under the same conditions, without reprogramming the unit after each use, expediting the measurement process.

All Kett moisture determination balances utilize the heat/dry weight change measurement principle. This allows for an accurate (as low as .01%) determination of total moisture content. The integrated precision balance can be used alone, or in conjunction with the moisture determination, minimizing sample measurement time.

Three measurement modes (timed, continuous, automatic) allow the measurement process to be adapted to the individual testing requirements of the application. The units can be connected with a printer to allow for instantaneous test documentation.

Model 620

Our cost-effective FD-620 infrared moisture determination balance is a high-quality, rugged unit that meets today's quality control requirements at yesterday's budget, through the use of integrated electronics.



Total Electronic Control

Every step of the measurement process is programmed before heating begins, and the 620 manages the rest of the test. Auto-taring helps maximize precision.

Infrared Heating

The FD-620 utilizes a 185 Watt infrared lamp, heating the sample in an efficient, effective manner that cannot be matched by air-ovens.

Model 240

This top-of-the-line moisture balance offers the largest measurement capacity, with a sample weight capability of 1 to 300 grams. Full electronics allow you the freedom to test without operator supervision — making your day more productive.



Unsurpassed Flexibility

A 300g balance capacity permits measurement of larger samples, reducing sampling errors. Combined with the ability to measure as low as .01%, the 240 can measure almost any substance available.

Predictive Testing

The predictive test mode of the FD240 checks the actual moisture loss during the test and compares it with predicted moisture loss. Tests are stopped when the two values are within pre-set levels. This allows tests to be completed in a fraction of the time needed to dry samples to end-point.

Infrared Heating

The FD-240 offers a powerful 400 Watt infrared lamp for heating the samples. Efficient and effective!

Summary

By now, you have decided which Kett Balance you would like to purchase. Kett offers high quality, accurate moisture balances that will perform to your most stringent expectations. If you wish to place an order, or if you require additional guidance on model selection, please

CALL TOLL FREE **(800) 438-5388**

The Moisture Balance that pays for itself!



ACCESSORIES AND OPTIONS

Printer Options

All models have printer ports and allow you to plot evaporation curves to minimize your drying times.

Sample Dishes and Extra Lamps

Available for all models and needs.

Specifications

Model	FD-620	FD-240	FD-100
Measurement Range	0-100%	0-100%WB 0-500% DB	0-100
Sample Weight	5-70g	1-300g	5-70g
Minimum Indication	0.1% or 5mg	0.01% or 1mg	0.1% or 10mg
Accuracy	+/- 0.1%	+/- 0.01%	+/- .1% (21-70g) +/- .2% (5-20g)
Data Displayed			
Moisture	Y	Y	Y
Weight	Y	Y	Y
Drying Time	Y	Y	Y
Temperature	Y	Y	Y
Drying Time	1-90 Min.	1-90 Min.	1-30 Min.
Temperature Range	50-195 C	40-200 C	50-400 C
Power Source (AC)	115/220V	115/220V	115/220V
Measuring Principle	Loss on Drying (LOD) - Heat dry, measure the weight change due to evaporation		
Heat Source	185W Infrared Lamp	400W Infrared Lamp	280W Ceramic Tube
Display	LCD	LCD	LCD
Printer Compatible	VZ-300	VZ-320	VZ-320
Measurement Modes			
Timed	Y	Y	Y
Continuous	Y	Y	Y
Automatic	Y	Y	Y
Fast Dry	N	N	Y
Predictive	N	Y	N
Weight (Net / Shipment)	7 / 11 lbs.	16.5 / 22 lbs.	10.8 / 14 lbs.
Dimensions (mm)	335Hx210Wx320D	331Hx194Wx319D	170Hx195Wx315D
Warranty	All Kett Moisture Determination Balances are covered by a three-year manufacturer's warranty on parts and labor. Post-warranty maintenance agreements are also available. Please call for information		

1-800-GET-KETT
www.Kett.com

Tomorrow's Testing, Today!

Kett offers a complete line of innovative test and analysis equipment — for laboratory, field, and commercial applications. Moisture testing is our business! If your company requires quick, accurate measurements, please call Kett!



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