

Application Balances

Electronic Moisture Balance

MOC-120H



Large sample pan and capacity allow any sample to be laid out for the best drying conditions. Reliable UniBloc weighing mechanism and unique auto-taring system enable accurate measurements.

Large sample pan and auto-taring mechanism

A large sample pan contributes to accurate measurements, but the larger heat capacity of it normally results in a larger zero drift in the precision weighing. The MOC-120H is equipped with a unique auto-taring mechanism, which eliminates the zero drift continuously and ensures high accuracy, even with a larger sample pan.

UniBloc technology for precision weighing

Shimadzu's UniBloc cell is used as the core mechanism of the weighing part. Its uniform structure maintains the high performance of precision weighing under repeated heating / cooling.

Mid-wave infrared quartz heater

Mid-wave infrared quartz heater provides effective drying for a wide range of samples. Besides the excellent drying performance, it offers a long operational life of 20,000 to 30,000 hours. Therefore, the long-term operational cost is much lower than halogen lamp heaters.

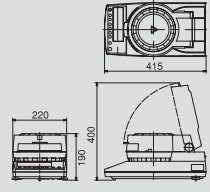
Predictive measuring mode

The final result is predicted from the drying process, saving time in repeated measurements.

WindowsDirect

Complete sample data and instrument settings can be directly typed into any application on Windows® and no interface software is required.

Dimensions



MOC-120H with 130mm sample pan

Measuring method	Heat drying and weight loss
Sample pan size	130 mm dia
Sample pan material	Stainless steel
Minimum display in weighing	0.001g
Measurement range of moisture content	0.01% to 100.00 %
Moisture content minimum display	0.01%
Sample capacity	120g
Measurement modes	Automatic or Timed ending modes, Standard, Rapid, Slow and Step drying modes, Predictive Measuring mode
Drying heater	Mid-wave infrared quartz heater
Temperature range	30 to 200°C (by 1°C increments)
Digital output	Complete test data including instrument settings can be output. Optional electronic printer prints the data in tabular or graphical style. Excel® Spread Sheets can receive the data without communication software (WindowsDirect).
Dimensions	220W X 415D X 190H (mm)
Weight	4.5kg
Operational temperature and humidity range	5 to 40°C, 85% RH or lower
Power requirements	AC100 to 127 / 220 to 240V, 640W maximum
Stored procedures	10
Standard accessories	Sample pan 2pcs, Sample pan handler 2pcs, Aluminum sheet 20pcs, Spoon, Spatula
Optional accessories	Temperature calibration kit, Electronic printer, RS-232C Cable
Consumables	Aluminum sheet 500pcs, Printer paper for optional electronic printer

Optional Accessories

Temperature calibration kit

The temperature at the sample position can be directly measured.



Electronic printer

Measurements can be printed out in tabular or graphical style.



SMK Specific Gravity Measurement Kits

Simple specific gravity meters based on precision balances.

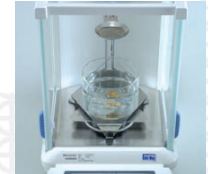
Combine your Shimadzu balance with a specific gravity measurement kit for handy specific gravity measurements. Software for specific gravity measurement is pre-installed in all AUW-D / AUW / AUX / AUY, AW / AX / AY, UW / UX, and EL / ELB Series.

Order one of the balances and the corresponding specific gravity measurement kit.

Liquid density can also be measured with a sinker (except for EL/ELB Series).



SMK-101



SMK-401

Model	Balance Series	Reduced Capacity (approx.)	Sample Phase	
			Solid	Liquid
SMK-401	AUW-D/AUW/AUX/AUY	0g	●	●
SMK-301	AW/AX/AY	0g	●	●
SMK-101	UW/UX (Capacity 2200g or more)	100g	●	●
SMK-102	UW/UX (Capacity 420g-820g)	270g	●	●
SMK-201	EL/ELB (Capacity 600g-6000g)	200g	●	

A sinker is additionally needed for liquid density measurement.

Animal Balances



UW*

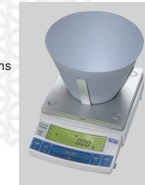
UX*

BW-K*

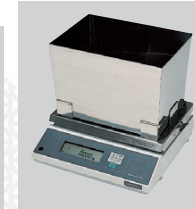
BX-K*

* When animal weighing mode is not used, all the functions indicated on p.9 or p.11 are available.

Electronic Balances for Weighing Animals



UW Series



BW-K plus Medium-size Animal Bucket



BW-K plus Large Animal Bucket

Dedicated software brings quick and reliable results of live animal weighing

Upon removing the weighed animal, the weight of remaining feces and output are automatically tared off, and the balance presents zero for the next animal.

Display response and stability can be optimized according to the level of animal movement and the environmental conditions.

Model	Balance Series	Reduced Capacity (approx.)
Small Animal Bucket set	UW/UX (Capacity 2200g or more)	Bottom 110dia, Top 200dia, Height 130
Medium-size Animal Bucket set *1	BW-K	Bottom 305 X215, Top 377 X 245, Height 215
	BX-K	
Large Animal Bucket set *2	BW-K (Capacity 22kg or more)	Bottom 335 X 245, Top 445 X 395, Height 345
	BX-K (Capacity 22kg or more)	

*1 Capacity is reduced about 2kg
*2 Capacity is reduced about 6kg
*1,2 Production on demand