

Digestion Unit

Product Brief

The automatic digester autblocka30 / A60 / A72 is used for automatic wet digestion of various samples. This machine is controlled by a microcomputer, which can automatically complete the digestion steps such as adding reagents, mixing samples, temperature programmed digestion, acid flushing, constant volume, etc.



technical parameter

Item / model	A30	A60	A72
temperature control	PID	PID	PID
Temp Accuracy	±0.1℃	±0.1℃	±0.1℃
heating temperature	Graphite heating module room temperature - 230 ℃ aluminum heating module room temperature - 450 ℃		
Reagent addition accuracy	0.01mL	0.01mL	0.01mL
Reagent adding speed	11ml/s	11ml/s	11ml/s
Number of reagent channels	Independent 9-channel	Independent 9-channel	Independent 9-channel
Kinematic accuracy of mechanical arm	40uL	40uL	40uL
Sample size	30 / batch	60 / batch	72 / batch
weight	80kg	120kg	120kg
Physical size	L*H*W 1000*630*1200mm		
Rated power	3000W	3000W	3000W
Power Supply	220V±10%,50Hz±5%	220V±10%,50Hz±5%	220V±10%,50Hz±5%

Product configuration

Host computer

Ventilation system (optional)

Performance characteristics

Digestion automation

The instrument can automatically complete the digestion steps such as adding reagent, mixing sample, temperature programmed digestion, acid driving, constant volume, etc,

Dual zone independent temperature control

Two zone independent temperature control technology can digest two batches of different samples at the same time.

Full corrosion protection design

The working table of the instrument and the part contacting acid gas shall be treated with anti-corrosion or coated with PTFE, and the sample digestion tube shall be made of Teflon.

Pipeline self cleaning

It has the function of automatic pipeline cleaning to prevent cross contamination of samples,

Full automatic constant volume system

Antiteck automatic digestion instrument determines the sample volume in the digestion tube by micro distance and low power ultrasonic sensor. High precision of constant volume. The maximum error is better than 5%.

Accurate judgment of end point

It is accurate and reliable to judge the end-point function of potassium permanganate reaction by color recognition.

More flexible solutions

The system supports unlimited scheme storage. Each scheme can achieve 100 steps, and can add, shake, and rise and fall the heat and reagent needed for test. Each function of constant volume is configured. Close to the experimental needs.

Security protection

The instrument is equipped with multiple intelligent protection. It can be operated remotely by the upper computer to ensure the safety of the instrument and operators,

Applicable standard

EPA method of water treatment	200.2.200.7, 200.8, 245.1, etc
EPA method of soil treatment	3010a.30200.3050b.3060, etc
GB method of soil treatment	GB / T 22105.1-2008, CB / T 22105.2-2008, GB / T 22105.3-2008, etc
GB method of food processing	GB / T 17138-1997.gb/t 5009.11-2003, GB / t5009.17-1996, etc
GB method of coating treatment	GB / t22788-2008, etc
Processing methods of electronic products	SJ / t11365-2006, etc
GBT 17138-1997	Soil quality - Determination of steel and zinc - Flame atomic absorption spectrometric method
GBT 22105.1-2008	Soil quality - Determination of total arsenic and lead - atomic fluorescence method - Part 1: Determination of total mercury in soil
GBT22105.2-2008	Soil quality - Determination of total arsenic and lead - atomic fluorescence method - Part 2: Determination of total arsenic in soil
GBT 22105.3-2008	Soil quality -- Determination of total mercury, arsenic and lead -- Atomic Fluorescence Method -- Part 3: Determination of total lead in soil
GBT22788-2008	Determination of total lead content in surface coating of toys
SJT 11365-2006	
GB/T0803.1-1999	Detection methods of toxic and dense substances in electronic information products
GB/T0803.2-1999	Test method for crude fat of imported and exported oilseeds
SJT 11365-2006	Methods for the determination of crude fat in cereals and feedstuffs for import and export