

# Graphite Digestion Apparatus



For the samples that are easy to dissolve, graphite digester can be used for digestion. Graphite digester is the sample digestion under atmospheric pressure, simple, easy to operate, sample processing capacity is large. It can also be used with microwave digester for primary digestion or acid removal after digestion.

SMX series graphite digester adopts international advanced technology, all stainless steel split design, with fast digestion, high efficiency, energy saving, convenient and other advantages, has been successfully used in environmental protection, chemical, food, medicine, biochemistry and other industries sample pretreatment, at the same time can be used for microwave digestion pretreatment and acid treatment. It is an ideal supporting product for atomic absorption, atomic fluorescence, ICP-AES and other analytical instruments.

Scientific Research



Laboratory Study



College Experiment



Industrial Research

DRYING OVEN

LABORATORY INCUBATOR

MUFFLE FURNACE

WATER DISTILLER

WATER BATH & OIL BATH

HEATING MANTLE

STIRRER

MIXER & SHAKER

HEATING PLATE & SAND BATH

**DIGESTION APPARATUS & METAL BATH**

NITROGEN SAMPLE CONCENTRATOR

CLEAN BENCH

STERILIZER

VACUUM PUMP

FILTRATION

GRINDER

COLONY COUNTER

DRYER

CENTRIFUGE

ELECTRIC FURNACE

LIFTING TABLE

LABORATORY CONSUMABLE

### Characteristics:

- **Uniform heating:** heating body chosen graphite which have superior themostabilityperformance to ensure that the temperature is uniform among different digestion holes and the temperature different among samples is less than $\pm 2.0$  °C. When digesting multiple samples at same time, our product can ensure that there are same temperature and condition among different samples, executing batch processing, overcoming the traditional shortcomings of heating plate.
- **Corrosion-resistant:** Graphite coated with teflon, easy to clean and resistant to corrosion, and assured to use in the strong acid and weak base corrosive environment.
- **Accurate control:** the product posses PID temperature control system, simple operation system, excellent performance, high durability, temperature accuracy up to  $+1.0$  °C and the heating rate is reconcilable; moreover, the graphite digestion instrument can control the heating and heating holding time, automatic stop heating after complete the heating.
- **High efficiency;** up to 64 samples can be processed simultaneously, greatly improved efficiency.
- **Wide range of applications:** Graphite digestion instrument can be used for routine laboratory heating reaction or control sample digestion precisely, rapid rush acid for the sample after microwave digestion, and define the capacity directly without transfer.

### Major Technical Parameters:

Model	SMX-16	SMX-25	SMX-40
Heating material	Teflon coating graphite		
Maximum power(KW)	2	2	2
Maximum temperature	RT+10~450°C		
Temperature accuracy	$\pm 0.1$ °C		
Sample handling capacity	64	36	25
Digestion aperture (diameter*depth)	$\Phi 16*64$ mm	$\Phi 25*36$ mm	$\Phi 40*25$ mm
Voltage	110V/220V		
Overall dimension (L*W*H)(mm)	400*400*220		
Controller size (L*W*H)(mm)	260*260*120		
Material	Mirror stainless steel		
Additional Function	PID temperature control system		
	Up to 64 samples can be processed		
	Uniform heating		
	Corrosion-resistant		