

# Product Introduction

## Anticorrosive Graphite Digestor

EH series Anticorrosive Graphite Digestor is a sample preparation device which can work in a high-concentration acid mist environment. It can support up to 60 samples at the same time to fully meet the needs of batch sample processing. Step temperature control and automatic sample lifting function can automatically complete the work steps of digestion, acid evaporate, cooling, etc., to minimize the experimenters contacting acid gas.

### Functions & Features:



#### Multiple protection—Anti-corrosion & Durable

- Stainless steel surface with Teflon coating, double anti-corrosion;
- Thickened Teflon coating on the surface of the graphite body, effectively prevent acid corrosion;
- Capacitive touch buttons to isolate acid gas and avoid corrosion;
- Double-layer structure design, independently sealed electrical system, heat insulation and corrosion protection;



#### Wireless control—Safe & Easy to operate

EH series graphite digester supports normal operation and wireless control. APP control software based on the Android system can remotely control the equipment by the mobile terminal. Digestion process can be easily completed without opening the fume hood window, better protecting the experimenter's health.

- Temperature curve can be observe on cellphone displays during digestion process.
- Compile and set up the digestion temperature and duration.
- Start and stop the digestion operation by cellphone.
- Build-in expert procedures which can be invoked at any time, modify and save any procedures.
- Buzzing alarms at the end of the procedures.



#### Homogeneous Heating—Synchronous Digestion

- EH series graphite digester uses unique uniform temperature heater. Sample heated by isostatic pressing graphite body. Brings faster heating speed, uniform temperature between the digestion holes, and longer service life.



#### Automatically lift and down —Protect the samples

##### Sample automatically lifted and dissipates heat

Rack automatically rises and dissipate the heat of samples once heating procedure finish, samples will not be destroyed by the residual heat due to user's ignored.

##### Sample is hovering near dry

When the digestion is nearly complete and little sample remain, tubes can be lifted to an appropriate position so it can be easily observed till to nearly dry, avoiding sample destruction.

##### Observe the sample out from window

Sample status need to be observed during the digestion process. The sample rack can be lifted by wire control switch or app software, and users can observe the samples through the fume hood glass.

Series	Profile	Model	Digestion Block Dimension	Digestion Capacity	Temperature range (°C)	Temperature stability (°C)	Stage of temp. setting	Power(W)	External Dimension (W×D×H)mm
miniHeater		miniHeater-1530	DiameterΦ32mm depth65mm	15	Ambient ~ 240°C	±1.5°C (@200°C)	20	1500	290×300×230
		miniHeater-1242	DiameterΦ44mm depth65mm	12	Ambient ~ 240°C	±1.5°C (@200°C)	20	1500	290×300×230
EHSeries		EH-2430	DiameterΦ32mm depth65mm	24	Ambient ~ 240°C	±1.5°C (@200°C)	20	1800	350×320×230
		EH-1542	DiameterΦ44mm depth65mm	15	Ambient ~ 240°C	±1.5°C (@200°C)	20	1800	350×320×230
		EH-3630	DiameterΦ32mm depth65mm	36	Ambient ~ 240°C	±1.5°C (@200°C)	20	2500	450×420×300
		EH-2542	DiameterΦ44mm depth65mm	25	Ambient ~ 240°C	±1.5°C (@200°C)	20	2500	450×420×300
		EH-1646	DiameterΦ50mm depth30mm (50mSpecial for beaker)	16	Ambient ~ 240°C	±1.5°C (@200°C)	20	2500	450×420×300
			EH-6030	DiameterΦ32mm depth65mm	60	Ambient ~ 240°C	±1.5°C (@200°C)	20	3500
	EH-4042		DiameterΦ44mm depth65mm	40	Ambient ~ 240°C	±1.5°C (@200°C)	20	3500	640×420×300
		EHS-3630	DiameterΦ32mm depth65mm	36	Ambient ~ 240°C	±1.5°C (@200°C)	20	2500	530×420×310
		EHS-2542	DiameterΦ44mm depth65mm	25	Ambient ~ 240°C	±1.5°C (@200°C)	20	2500	530×420×310
		EHS-1646	DiameterΦ50mm depth30mm (50mSpecial for beaker)	16	Ambient ~ 240°C	±1.5°C (@200°C)	20	2500	530×420×310
		EHS-6030	DiameterΦ32mm depth80mm	60	Ambient ~ 240°C	±1.5°C (@200°C)	20	3500	720×420×310
	EHS-4042	DiameterΦ44mm depth80mm	40	Ambient ~ 240°C	±1.5°C (@200°C)	20	3500	720×420×310	

## Intelligent Acid digester—The ideal Partner of Microwave digestion

V series Intelligent Acid digester is the best partner for microwave digestion. Microwave tubes can be put into the digester directly for acid evaporation. The isostatic pressure graphite heater ensure the uniform temperature in the holes and consistency of digestion. Multiple corrosion resistant design can protect the graphite and electronic elements from acid corrosion.



### Functions & Features :

#### Multiple protection—Anti-corrosion and durable

- Stainless steel surface with Teflon coating, double anti-corrosion;
- Thickened Teflon coating on the surface of the graphite body, effectively prevent acid corrosion;
- Capacitive touch buttons to isolate acid gas and avoid corrosion;
- Double-layer structure design, independently sealed electrical system, heat insulation and corrosion protection;

#### Wireless control—Safe & Easy to operate

- Built-in wifi communication module , device can be controlled and operated by mobile phone ;
- Temperature curve can be observe on cellphone displays during digestion process ;
- Digestion temperature and acid evaporation time can be edit and set via mobile APP ;
- Build-in expert procedures which can be invoked at any time, easy to use.

#### Homogeneous Heating—synchronous evaporate acid

- Support multi-level gradient heating, avoid sample bumping;
- Static pressure graphite body, uniformly heating, ensuring the temperature difference between holes less than  $\pm 1.5^{\circ}\text{C}@200^{\circ}\text{C}$ ;

Series	Profile	Model	Digestion Block Dimension	Digestion Capacity	Temperature range (°C)	Temperature stability (°C)	Stage of temp. setting	Power(W)	External Dimension (W×D×H)mm
V Series		V2428	DiameteΦ28mm depth155mm	24	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	1500	290×290×310
		V1243	DiameteΦ42.5mm depth110mm	12	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	1500	290×290×310
		V1248	DiameteΦ47.5mm depth115mm	12	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	1500	290×290×310
		V2438	DiameteΦ37.5mm depth135mm	24	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	1800	350×310×310
		V4028	DiameteΦ28mm depth155mm	40	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	1800	350×310×310
		V2434D	DiameteΦ34mm depth200mm	24	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	2000	350×310×355
		V1638	DiameteΦ37.5mm depth135mm	16	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	1500	250×310×300
		V6428	DiameteΦ28mm depth155mm	64	Ambient - 210°C	$\pm 1.5^{\circ}\text{C}$ (@200°C)	20	3000	360×420×350