

DigiBlock Digester

Solutions in Sample Preparation

- One stop operation
- Higher throughput of samples
- Uniform temperature across the block
- Minimum radiant heat loss
- Reduced contamination
- Cost savings by disposable digestion tubes



Sample Preparation Solution

Sample preparation procedures account for approximately 85% of the time associated with lab analysis.

Quality, ease of use and speed are key factors in today's analytical lab.

LabTech DigiBlock digester provides clean, economical, efficient digestions. It is effective for the digestion and evaporation of samples, which simplifies and speeds up your preparation. They are the most ideal equipments for heating digestion in fields of chemistry, environment, food, pharmacy, and biochemistry, etc. LabTech DigiBlock digester has been accepted and used in EPA Methods (i.e. 200.2, 200.7, 200.8, 200.9, 365.1, 3010a, 3020b, 3050b, and 3060), which is good for the sample pretreatment for the analyses by AA, ICP, ICP-MS etc.



DigiBlock digesters include S series, ED series and EHD series. The heating area is made of graphite or aluminum alloy protected by Teflon. DigiBlock can accommodate up to 54 graduated tubes and can operate from ambient temperature to 450°C. DigiBlock use low cost, disposable digestion tubes to speed up and simplify the digestion process. The digestion tubes are clean, with no detectable background contaminations and do not require washing with acids prior to use. Different sizes disposable vessels are available to meet your laboratory needs. All DigiBlock units include racks for sample handling and a tube basic set (according to the model).



7 Good Reasons to Select LabTech DigiBlock

- One-stop operation including digestion, evaporation and constant-volume that eliminates possibility of sample loss and contamination during sample transfer
- Advanced microprocessor makes temperature control accuracy $\pm 0.2^{\circ}\text{C}$
- Excellent thermo conductivity ensure the samples diversity lower than $\pm 1.5^{\circ}\text{C} @ 150^{\circ}\text{C}$
- DigiBlock units come complete with 18-place racks which facilitate the operator to load or unload 18 samples at a time
- Programmable multipoint heating function satisfies different heating requirements
- Over-heat protection function
- Corrosion resistant for clean lab



DigiBlock Digester

ED Series-Economical, Efficient, Anticorrosion



ED16

- Competitive price with small productivity
- 100ml digestion tubes /Φ44mm digestion wells
- Suitable for microwave acid drying, and dramatically cut down heating time

ED36

- 50/100ml digestion tubes
- Digest up to 36 samples simultaneously
- Fast heating digestion of food, biological samples, waste water, soil, industry, cosmetic, medicine, etc.

ED54

- Digest up to 54 samples simultaneously
- Graphite heating material, max. temperature 240°C
- Fast heating digestion of food, biological samples, waste water, soil, industry, cosmetic, medicine, etc

EHD Series-High Temperature, Efficient, Powerful



EHD20

- Max. temperature 415°C
- Φ44mm digestion wells
- Especially for Kjeldahl determination
- Fast heating digestion of food, fertilizer, soil, corn, feed, water, medicine, protein, etc.

EHD36

- Max. temperature 415°C
- Especially for adding H₂SO₄ application which will speed up the digestion of organic component
- Suitable for all wet digestion methods
- Especially for digestion in TN/TP determination.

S Series- Intelligent, Green, Energy Saving



ED36S

ED16S

- Anticorrosive coating
- Hot indication even power off
- 100ml digestion tubes
- Φ44mm digestion wells
- Power: 1000W
- Especially suitable for microwave acid evaporation and pretreatment

ED36S

- 50/100ml digestion tubes
- Digest up to 36 samples simultaneously
- Hot indication even power off
- Power: 1400W
- Fast heating digestion of food, biological samples, waste water, soil, industry, cosmetic, medicine, etc.



EHD36S

ED54S

- Digest up to 54 samples simultaneously
- Graphite with Teflon coating
- Fast heating digestion of food, biological samples, waste water, soil, industry, cosmetic, medicine, etc

EHD36S

- Max. temperature 450°C
- Graphite heating material
- Power: 3000W
- Suitable for all wet digestion methods, especially for digestion in TN/TP determination.

Specification

	Model	Max. Power	Max. Temp	Temp. Accuracy	Sample Tubes	Digestion holes (DxH)	Heating Material	Dimensions(LxWxH)
ED Series	ED16	1300W	210°C	±0.2°C	16x100ml	44x50mm	Aluminum alloy with Teflon coating	390x380x197mm
	ED36	2000W	210°C	±0.2°C	36x50ml	31x50mm	Aluminum alloy with Teflon coating	455x445x197mm
	ED54	3000W	240°C	±1.0°C	54x50ml	31x50mm	Graphite	536x398x290mm
EHD Series	EHD20	2800W	415°C	±1.0°C	20x100ml	44x50mm	Graphite	408x353x290mm
	EHD36	3000W	415°C	±1.0°C	36x50ml	31x50mm	Graphite	398x398x290mm
S Series	ED16S	1000W	210°C	±0.2°C	16x100ml	44x50mm	Aluminum alloy with Teflon coating	380x280x190mm
	ED36S	1400W	210°C	±0.2°C	36x50ml	31x50mm	Aluminum alloy with Teflon coating	420x420x190mm
	ED54S	3000W	210°C	±1.0°C	54x50ml	31x50mm	Graphite with Teflon coating	536x398x290mm
	EHD36S	3000W	450°C	±0.1°C	36x50ml	31x50mm	Graphite	538x442x198mm

iTouch Separate Terminal

Besides all the advantages provided by the stand alone configuration, LabTech i-Touch terminal offers all DigiBlock users the possibility to program and store sample digestion methods by programmable multipoint heating ramps and internal hard disk.

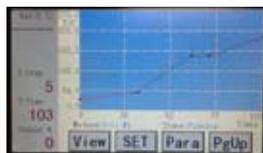
- 4.3 inch TFT screen
- Real-time display
- Adjustable heating speed
- Up to 14 steps heating ramps
- Category methods storage
- Easy and safe cable connection
- External temperature sensor (option)



Operation Interface



Home Page 1



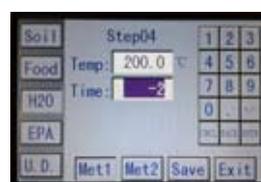
Home Page 2



Method Selection Interface



Real-time Graph



Method Setup

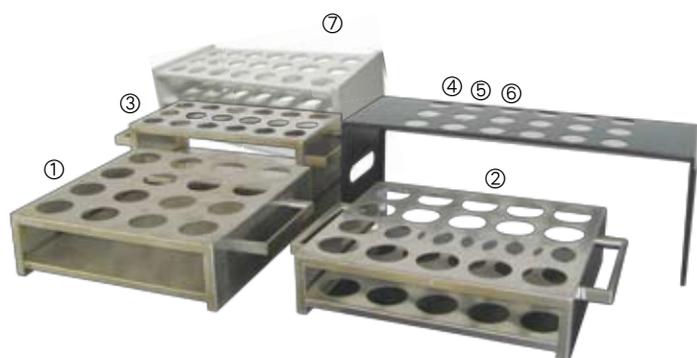


Method End Step Setting



Accessories

Racks and Vessels



	Item	P/N	Material	Dimensions	Diameter of Holes	Quantity of Holes
Racks	①	BKS-16	Stainless Steel	330×270×80mm	44mm	16
	②	BKS-20	Stainless Steel	350×240×70mm	44mm	20
	③	BKS-36	Stainless Steel	340×150×100mm	32mm	18
	④	BKT-36	PTFE Coated	470×150×190mm	32mm	18
	⑤	BKT-36S	PTFE Coated	440×150×130mm	32mm	18
	⑥	BKT-54	PTFE Coated	410×140×190mm	32mm	18
	⑦	BKP-36	PVC	366X150X134mm	31mm	18

	Item	P/N	Material	Max. Temp.	Height	Diameter	Rated Volume	Total Volume
Vessels	①	GC-16	Glass	450°C	120mm	42mm	100mL	125mL
	②	GC-20	Glass	450°C	165mm	42mm	100mL	175mL
	③	GC-20-K	Glass	450°C	300mm	42mm	250ML	325mL
	④	GC-36-L	Glass	450°C	155mm	30mm	50mL	75mL
	⑤	GC-36-S	Glass	450°C	130mm	30mm	50mL	68mL
	⑥	SC-36	PP	130°C	105mm	30mm	50mL	68mL
	⑦	TF-16	PTFE	210°C	120mm	42mm	100mL	130mL
	⑧	TF-20	PTFE	210°C	165mm	42mm	100ml	165mL
	⑨	TF-36	PTFE	210°C	134mm	30mm	50mL	68mL

Application Notes

LabTech provides digiblock sample digestion notes in different fields to better support your application. Our experienced application engineers are ready to assist you anytime when you have questions on sample preparation.

- Environment
- Agriculture
- Food and feed
- Pharmacy and biochemistry
- Petrochemistry and Plastic
- Geology
- CDC
- ...

