

# DigiPREP

Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) Digestion & Distillation Systems

.....  
Total Kjeldahl Nitrogen (TKN)

.....  
RoHS

.....  
Many More...



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sales@scpscience.com • www.scpscience.com

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Providing Innovative Solutions to Analytical Chemists

# Sample Digestions

The **DigiPREP HT** series of block digestion systems offers the latest in graphite block technology in four different packages. Graphite blocks are coated with silicon carbide (SiC) which resists aggressive, corrosive attack for guaranteed long life in harsh laboratory environments. The systems have a temperature range from ambient to 450°C and require either a **DigiPREP Touch Screen** or **KeyPad** controller.



**DigiPREP HT - 250**  
20 - sample capacity  
(Catalog No. 010-520-222)

## Digestion Made Easy...

The **DigiPREP HT** series\* is available in four models - two models employing 100 ml tubes and two models with 250 ml tubes. An all-Teflon® manifold, with its unique Teflon® tube adaptors, removes corrosive acid fumes while promoting gentle refluxing. With its two-tier, dual zone tube rack, benchtop space is reduced by 50% allowing more room for other lab instruments. **DigiPREP HT** systems are ideal for Kjeldahl/TKN, WEEE RoHS, and for any application using sulfuric acid (H<sub>2</sub>SO<sub>4</sub>).

\* System(s) require the use of a controller

## Build a Complete System...

Information	DigiPREP HT 100		DigiPREP HT 250	
	40 - Position	10 - Position	20 - Position	10 - position
Catalog Number	010-520-202	010-520-235	010-520-222	010-520-245
Capacity	40 samples	10 samples	20 samples	10 samples
Tube Capacity (Max)	115 ml	115 ml	300 ml	300 ml
Nominal Volume	100 ml	100 ml	250 ml	250 ml
Temperature (Max)	450 °C	450 °C	450 °C	450 °C
Voltage (Volts)	230	230	230	230
Size (in)	17 W x 17.5 D x 27 H	17.75 W x 12.5 D x 27 H	17 W x 17.5 D x 27 H	17.75 W x 12.5 D x 27 H

## Total Control at Your Fingertips...

### Color Touch Screen Controller (010-500-250)

The Touch Screen controller is recommended for all multi-step, multi-temperature digestions such as Kjeldahl and RoHS digestions.

Includes all of the KeyPad controller features, plus:

- Store up to 12 custom methods
- Each method offers 6 programmable steps of
  - Time-to-temperature
  - Time-at-temperature
- View a graphical representation of the heating profile in real-time



- Includes built-in safety features and calibration parameters:
  - Calibration of controller; up to 5 points
- Built-in, selectable language sets:
 

Chinese	Italian
Dutch	Japanese
English	Korean
French	Portuguese
German	Spanish

### KeyPad controller (010-500-220)

Inputting operating parameters is made easy with the **DigiPREP** KeyPad controller. Features include:

- programmable:
  - timer with shutdown option
  - temperature set-point to 0.1°C
  - programmable alarm for end of segment



- displays block temperature
- displays actual time remaining in sequence
- useable in five different languages
- utilizes safety messages to prevent failure
- calibration of controller; up to 5 points

# Distillation Systems

**DigiPREP** distillation systems range from manual to fully automatic. Systems are programmed and operated using a single, turn-and-press knob. All systems can be used for the steam distillation of Kjeldahl ammonia solutions. In the Kjeldahl application, the additions of NaOH, H<sub>2</sub>O, and H<sub>3</sub>BO<sub>3</sub> may be automated. Samples can be distilled in 3 to 5 minutes. Variable steam power from 40% to 99% is offered for alcohol and phenol analysis in most models. Automatic drainage of hot sample waste provides safety and convenience.

An instrument is available to suit every budget. Please review the chart below to determine model of choice.



**DigiPREP Distillation System  
Model - 300**  
(Catalog No. 010-035-003)

## DigiPREP Steam Distillation Systems

FEATURES	DigiPREP Distillation System Model				
	100	200	300	400	500
CATALOG NUMBER	010-035-001	010-035-002	010-035-003	010-035-004	010-035-005
Automatic Addition of H <sub>2</sub> O		•	•	•	•
Automatic Addition of NaOH	•	•	•	•	•
Automatic Addition of H <sub>3</sub> BO <sub>3</sub>				•	•
Programmable Reaction Time	•	•	•	•	•
Programmable Distillation Time	•	•	•	•	•
Automatic Steam Generation	•	•	•	•	•
Variable Steam Generating capacity (40% -100%)	•	•	•	•	•
Automatic Removal of Sample Waste by Suction			•	•	•
Number of Programs	1	1	10	99	99
Display Language Can Be Chosen by the User	•	•	•	•	•
Visual Error Reports	•	•	•	•	•
Acoustic Error Reports	•	•	•	•	•
Standby Operation Between Distillations	•	•	•	•	•
Level Monitoring for the Set of Canisters	•	•	•	•	•
Connection for Titration Unit					•
Voltage (volts)	230	230	230	230	230
Dimensions (W x H x D in mm)	410 x 675 x 410	410 x 675 x 410	410 x 675 x 410	410 x 675 x 410	410 x 675 x 410
Weight (kg)	34	34	35	35	36

\* Built-in selectable language sets in English, French and German

# Accessories

## Dual Probe (010-520-310)

For applications where temperature must be verified for auditing purposes. One probe is used for control while the second probe can be connected to a calibrated readout.



Information	DigiPREP HT 100		DigiPREP HT 250	
	40 - Position	10 - Position	20 - Position	10 - position
DigiPREP HT with Dual Probe	010-520-402	010-520-435	010-520-422	010-520-445

## Glass Ball Condenser (010-520-312)

Vapor rising into the glass condenser is efficiently cooled onto the glass fingertips to flow back into the distillation tube for efficient refluxing. Refluxing also prevents the sample from going to dryness. Condensers can be used when the Teflon Manifold is not in use.



## Universal Fume Scrubber (010-520-160)

Removes and neutralizes acid fumes during the digestion. The system involves a series of bottles; condenser, neutralizing bottle and acid waste collecting. May be used with all DigiPREP HT digestion models. System works best with a chiller, not included.



## pH Titrator (010-035-050)

Accurate dosing technology and high-precision glass cylinders ensure correct titration results. An easy to read display shows the quantity of the titrant used; delivers with 0.01 ml accuracy. May be connected to DigiPREP 500 distillation system to automate the final stage of Kjeldahl analysis.



MK-MKG003-DGDT-6.0-E

# Service Department

Our friendly Service Department will gladly assist you with technical questions pertaining to DigiPREP products. With over 30 years in servicing instruments, our staff will review and resolve issues quickly.

**Website:** [www.scpsscience.com](http://www.scpsscience.com) • **Email:** [sales@scpsscience.com](mailto:sales@scpsscience.com)

U.S.A.  
Tel.: (800) 361-6820  
Fax: (800) 253-5549

Canada / International  
Tel.: (800) 361-6820 / +1 (514) 457-0701  
Fax: (800) 253-5549 / +1 (514) 457-4499

Europe  
Tel.: +33 (0) 1 69 18 71 17  
Fax: +33 (0) 1 60 92 05 67

China  
Tel.: +86 (10) 58032301  
Fax: +86 (10) 58032302