

SCP SCIENCE

Providing Innovative Solutions To Analytical Chemists

*Digi*PREP HT

SULFURIC ACID (H₂SO₄) DIGESTION & DISTILLATION SYSTEMS

TOTAL KJELDAHL NITROGEN (TKN)

WEEE RoHS

MANY MORE...

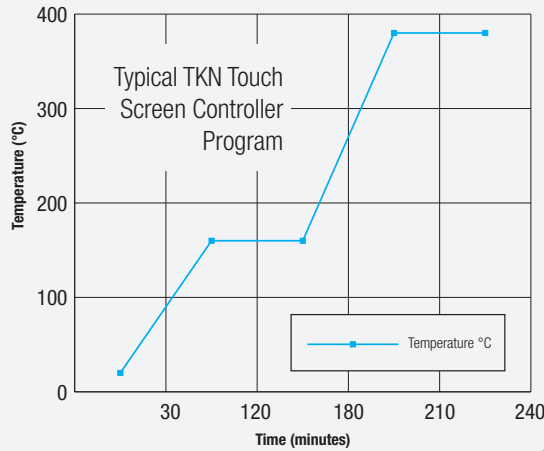


SAMPLE DIGESTIONS

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 a **DigiPREP** controller.

DIGESTION MADE EASY...

The **DigiPREP** HT series (system(s) require the use of a controller) 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 (H₂SO₄).



BUILD A COMPLETE SYSTEM

Description	<i>DigiPREP</i> HT 100-10	<i>DigiPREP</i> HT 100-40	<i>DigiPREP</i> HT 250-10	<i>DigiPREP</i> HT 250-20
Catalog Number	010-520-435	010-520-402	010-520-445	010-520-422
Capacity	10-100 ml	40-100 ml	10-250 ml	20-250 ml
Power	3000 Watt	3362 Watt	3000 Watt	3362 Watt
Size (in.)	17.75W x 12.5D x 27H	17W x 17.5D x 27H	17.75W x 12.5D x 27H	17W x 17.5D x 27H
Weight (lb/kg)	23 / 10.5	49 / 22	23 / 10.5	46 / 21

TOTAL CONTROL AT YOUR FINGERTIPS

The Color Touch Screen Controller (010-500-250) is recommended for all multi-step, multi-temperature digestions such as Kjeldahl/TKN and WEEE RoHS digestions.

Color Touch Screen Controller with USB Port (010-500-275). The USB port is conveniently located at the back of the controller and enables users to save detailed reports for laboratory audits. The reports are saved onto a USB stick and include the following data: date and time of the sample run, instrument serial number, temperature log in 15 second intervals and safety messages. The controller is perfect for research and method development.



Features

- Allows for block temperature feed back or sample temperature feed back using an optional **DigiPROBE**
- Automatic shut off at end of run
- Real time graphical representation of heating progress
- Displays temperature to 0.1 °C
- Displays time to 0.1 seconds
- 10 languages included: English, French, German, Dutch, Italian, Portuguese, Spanish, Japanese, Chinese and Korean

Features

Temperature Set-Point Programming to 0.1 °C

Block sensor or *DigiPROBE* can be calibrated with up to 5 points



KeyPad Controller (010-500-220) is recommended for simpler methods where a single set-point temperature is required. Display shows current block temperature along with current time remaining for the digestion. Built-in audible and visual alarms signal the end of a segment. User friendly, one-touch buttons allow for fast resetting of temperature or alarm times.

The PC Classic Controller (010-500-280) and Go2Temp® software allow a user to control one or multiple *DigiPREP* blocks remotely. Access to advanced software features of the Go2Temp® is provided. Comes complete with communication capabilities (RS485 to USB).

System	Catalog Number	Qty	Component Description	System	Catalog Number	Qty	Component Description	
<i>DigiPREP</i> HT 100-40 (230V) 010-520-402	010-520-010	1	<i>DigiPREP</i> HT 100-40 Insert Rack	<i>DigiPREP</i> HT 100-10 (230V) 010-520-435	010-520-247	1	<i>DigiPREP</i> HT 100-10 Insert Rack	
	010-520-100	1	Exhaust Manifold Rack, 100 ml		010-520-253	1	Teflon® Manifold HT 100-10	
	Models for 100 ml digestion tubes	010-520-205	1		<i>DigiPREP</i> HT 100 (230V) block with Hi-rise	010-520-300	1	Glass Water Jet
		010-520-300	1		Glass Water Jet	010-520-304	300 gr	Boiling Stones
		010-520-304	300 gr		Boiling Stones			
<i>DigiPREP</i> HT 250-20 (230V) 010-520-422	010-520-230	1	<i>DigiPREP</i> HT 250-20 Insert Rack	<i>DigiPREP</i> HT 250-10 (230V) 010-520-445	010-520-211	1	<i>DigiPREP</i> HT 250-10 Insert Rack	
	010-520-225	1	<i>DigiPREP</i> HT 250 (230V) block with Hi-rise		010-520-215	1	Teflon® Manifold HT250-10	
	Models for 250 ml digestion tubes	010-520-250	1		Exhaust Manifold Rack, 250 ml	010-520-300	1	Glass Water Jet
		010-520-300	1		Glass Water Jet	010-520-304	300 gr	Boiling Stones
		010-520-304	300 gr		Boiling Stones			

ACCESSORIES

Description	Qty	Catalog No.	Description	Qty	Catalog No.
HT 100 Digestion Tubes, uncalibrated	1	010-520-011	HT 250 Digestion Tubes, uncalibrated	1	010-520-031
HT 100 Digestion Tubes, calibrated * at the 25 ml and 50 ml mark	1	010-520-111	HT 250 Digestion Tubes, calibrated * at the 50 ml and 100 ml mark	1	010-520-131
HT 100 Digestion Tubes, Quartz, uncalibrated	1	010-520-085	HT 250 Digestion Tubes, Quartz, uncalibrated	1	010-520-087
Glass Water Jet, Extra	1	010-520-300	Ball Glass Condenser 250 ml	1	010-520-312
Boiling Stones, Extra	300 gr	010-520-304	Heat deflector Shields for all racks	2	010-520-032
Ball Glass Condenser 100 ml	1	010-520-318			

* Custom tube calibrations available upon request.

UNIVERSAL FUME SCRUBBER (010-520-160)

The Universal Fume Scrubber is used to trap and neutralize fumes from the *DigiPREP* HT or from a *DigiPREP* MS with a *DigiVAC* Hood. Acid fumes travel through a series of bottles where the fumes are condensed, neutralized and scrubbed. An adapter is included to connect the system to either the HT Digestion manifold or the *DigiVAC* system.



DigiPREP STEAM 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, H₂O, and H₃BO₃ 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.



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.



	Model 100	Model 200	Model 300	Model 400	Model 500
Catalog Number	010-035-001	010-035-002	010-035-003	010-035-004	010-035-005
Automatic Addition of H ₂ O	No	Yes	Yes	Yes	Yes
Automatic Addition of NaOH	Yes	Yes	Yes	Yes	Yes
Automatic Addition of H ₃ BO ₃	No	No	No	Yes	Yes
Programmable Reaction Time	Yes	Yes	Yes	Yes	Yes
Programmable Distillation Time	Yes	Yes	Yes	Yes	Yes
Automatic Steam Generation	Yes	Yes	Yes	Yes	Yes
Variable Steam Generating capacity (40%-100%)	Yes	Yes	Yes	Yes	Yes
Automatic Removal of Sample Waste by Suction	No	No	Yes	Yes	Yes
Number of Programs	1	1	10	99	99

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.

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