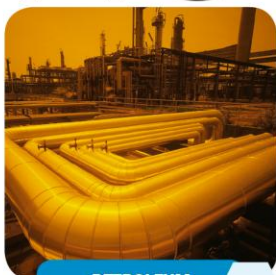


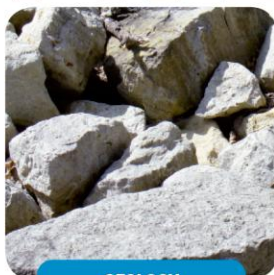
NOVAWAVE



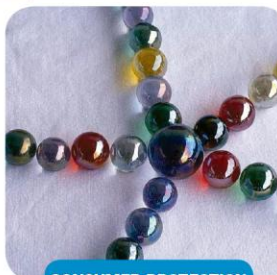
PETROLEUM



AGRICULTURE



GEOLOGY



CONSUMER PROTECTION



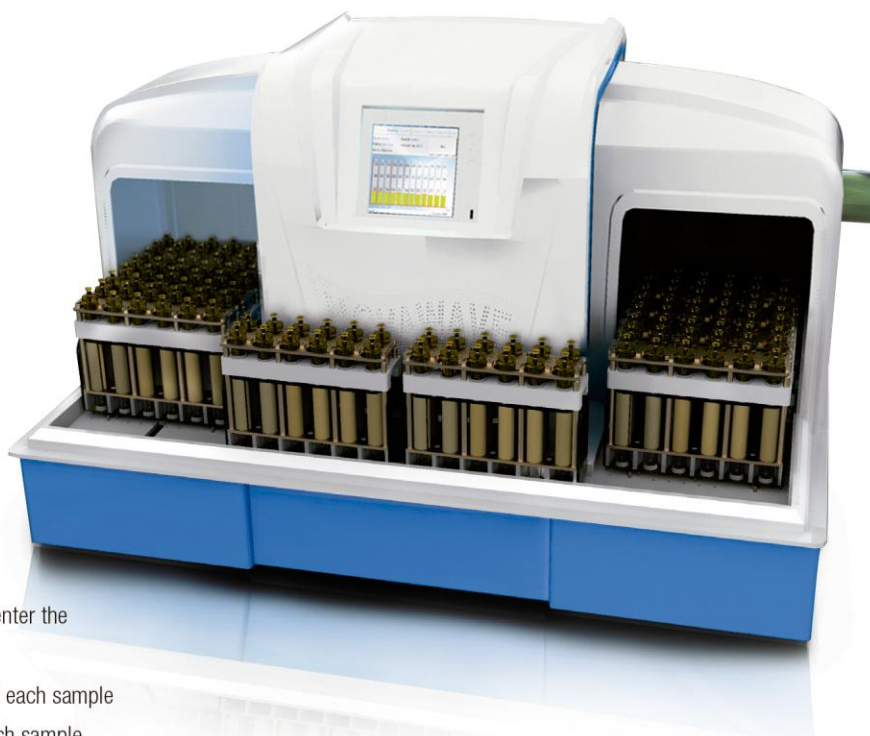
ENVIRONMENT

A new category of Automated Microwave Digestion

NOVAWAVE® is the first, fully automated microwave digestion system employing independent sample temperature control in a continuous, automated production environment. During the process, sample throughput is maximized and operator intervention is eliminated. Up to 14 Racks of 0-12 samples can be digested in a continuously loaded tunnel where pre-installed or user created methods are applied. Each sample temperature is individually monitored and controlled. Methods are assigned by rack or by sample. Sample I.D. travels from balance to spectrometer. Reports are automatically generated and sent.

ADVANTAGES

- Complete automation
- Reduced digestion times
- Dramatic reduction in labor
- Flexibility of methods
- Flexibility in the number of samples per run
- Direct sample temperature control
- Consistent sample I.D.



OPERATION

- Samples, positioned in a specially designed rack, enter the tunnel and locate above 12 separate IR sensors
- Microwave cavities are dynamically formed around each sample
- Precisely controlled power is applied directly to each sample according to the assigned method
- After digestion, samples move to an Auto-Cooling station and then to an Auto-Venting station



RACKS

- 12 Quartz or Teflon® vessels per rack loaded in seconds
- 12 Vessels are sealed simultaneously through a unique locking system
- 12 Vessels are automatically vented under software control or by manually reversing the locking system
- 12 Safety caps prevent over pressure to 435 psi (30 bar)
- Optical ports beneath vessels allow individual IR sensors to monitor each sample temperature

USER INTERFACE

- Color touch screen with on screen keyboard
- Multi tasking capability: digest one sample set while assigning methods for another sample set
- Method creations by single key touch and drop down menus
- Levels of password protected access – operator, administrator and diagnostics



SAFETY

- Over pressure safety caps
- High safety factors for all components
- Microwave protection throughout
- Corrosion resistant circuits, components and housing

METHODS

- Unlimited number of user created methods
- Pre-installed EPA and DIN methods which can be copied and edited
- Methods can be assigned by sample, by rack, or by a complete cycle of up to 14 racks

SAMPLE ID

- Assign bar code to each sample
- Samples travel in the same vessel from weighing, through digestion, to the autosampler
- Sample I.D. loaded automatically into sample Run table via bar code reader attachment
- Sample reports contain sample I.D, beginning weight/volume, maximum temperature achieved, complete temperature profile, and Remarks - a free field for operator notes
- Reports available via USB port or Ethernet connection to LIMS or remote PC

PATENTS

THE **NOVAWAVE**® SYSTEMS, THE CONCEPT, RACK DESIGN AND SAFETY FEATURES ARE COVERED UNDER A NUMBER OF PATENTS PENDING.



REQUEST INFORMATION

Further details are available from your sales representative, local distributor, or by emailing sales@scpscience.com.

You can also visit us on the web at www.scpscience.com/novawave

WHAT TO ORDER?

- Model FA, full automation with Transporter
- Model SA, stand alone without Transporter
- Transporter upgrade to convert SA to FA
- 75 ml Vessel Racks and 50 ml Vessel Racks
- Quartz vessels, calibrated, 50 or 75 ml
- Teflon® vessels, 50 and 75 ml
- Teflon® Cap Liners

