

MultiVIEW

Microwave Digestion System



PETROLEUM



AGRICULTURE



GEOLOGY



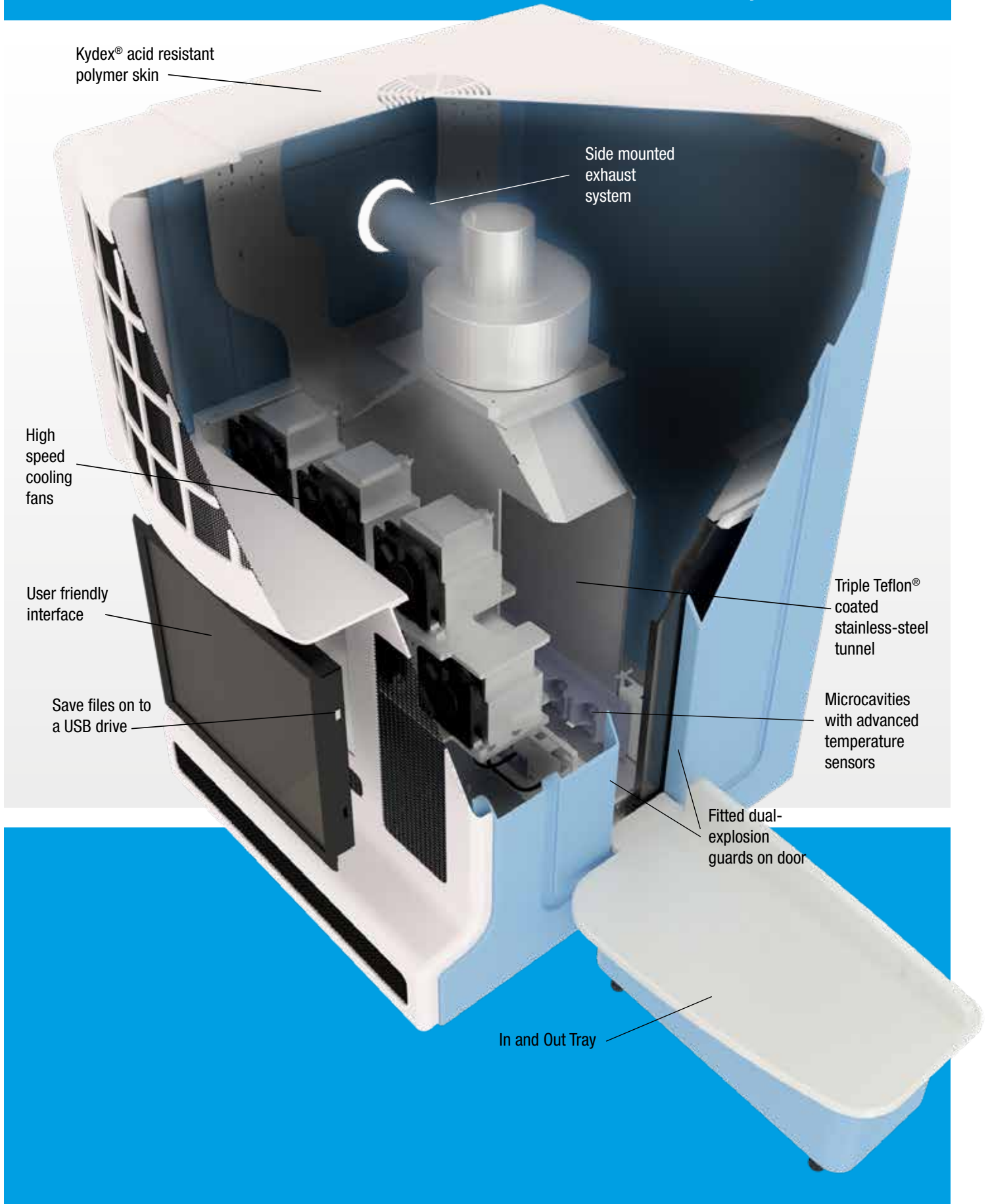
ENVIRONMENT



TEXTILES

The world's only, fully automated, high volume Microwave Digestion System

MultiVIEW System



Temperature Profiles



Method: USEPA 3015A; Vessel Type: Quartz; M/V: 0.5 g of Soil, 5 ml HNO₃, 45 ml Water.

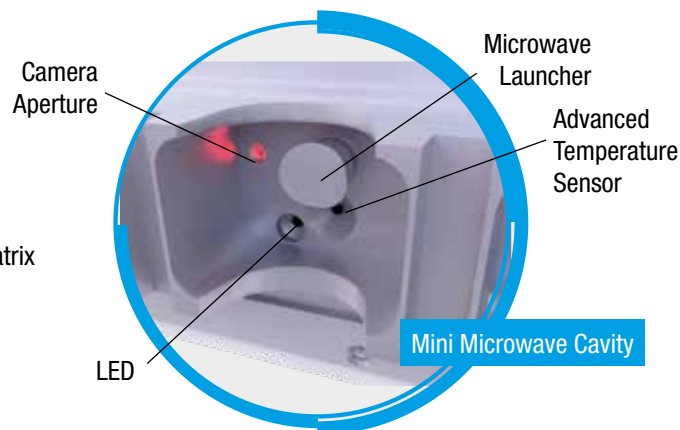
UNIQUE FEATURES

- ▶ Side mounted Rack loading for User Safety and Automation
- ▶ Digest up to 12 samples with up to 12 different Methods simultaneously
- ▶ Capable of automatically running up to 300 samples with up to 4 **AutoLOADER** Units
- ▶ Run samples in Quartz or Teflon® vessels in the same Rack with the same or different Methods
 - Use Quartz Vessels for convenience, cost, low background, and visibility
 - Use Teflon® Vessels for HF digestions
- ▶ Rack loading and unloading is partially automated for quick exchange of vessels
 - Reduce down time between digestion runs
- ▶ Sample identification tracked throughout using RF tags
- ▶ Robust Construction plus best materials suitable for operation in a corrosive environment
 - Kydex® skin, triple Teflon® coated stainless-steel tunnel
 - Complete separation of Tunnel with Samples from all other parts of the instrument
- ▶ CE/CU/CSA approved

MINI - MICROWAVE CAVITY

With **MultiVIEW**, each sample is digested in its own mini-microcavity which includes its own:

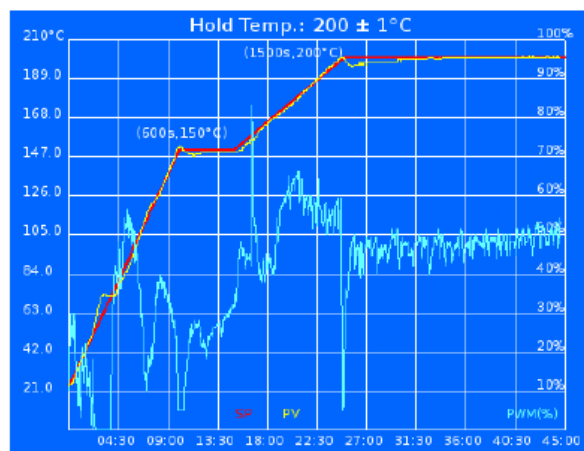
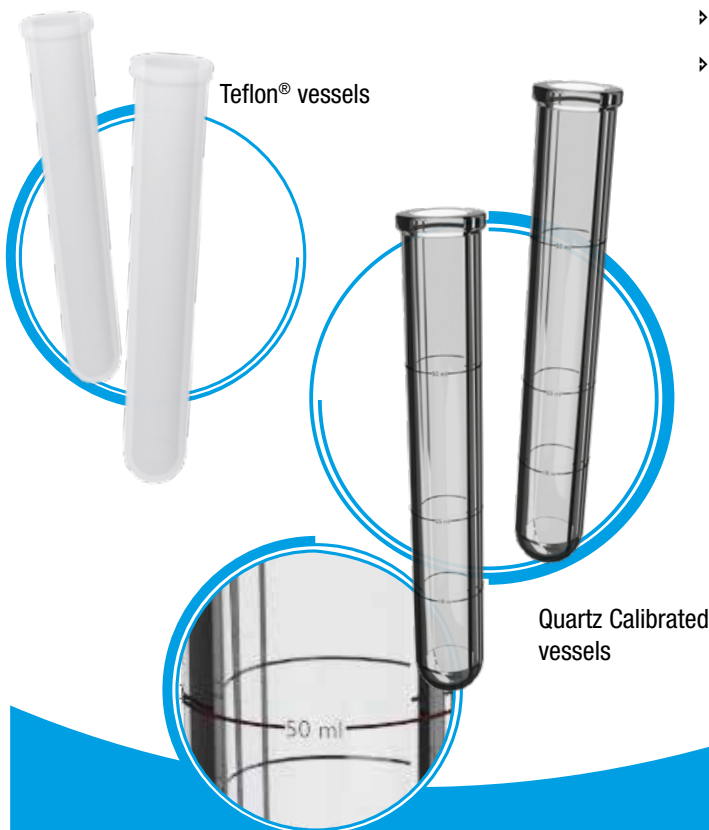
- > Focused Microwave energy to ensure reproducible digestions every time
- > New Inverter Power Source
- > New Temperature Detector System
 - Able to monitor temperature from ambient to 250 °C
 - Provides temperature reporting independent of sample type and acid matrix
 - With individual vessel temperature control and monitoring for multi matrix operation
- > Run different types of samples simultaneously in the same rack



UNIQUE DIGESTION RACKS/VESSELS



- > High speed loading and unloading of vessels reduces turn-around time
- > Teflon® or Quartz Vessels can be placed in the same rack for convenience
 - Also means Method Development can be achieved in fewer runs
- > Quartz Vessels are transparent and calibrated
 - Normalization can be done directly in the calibrated Quartz Vessels
 - Each vessel has multiple calibrations to Class "A" specifications to increase productivity
- > Quartz vessels cool down faster than Teflon® vessels for post-digestion process
- > Quartz Vessels are transparent allowing the ability to view sample vs Teflon® vessels
- > Serialized Safety Pressure caps with Certificate of Pressure
- > Vessels rated at 90 Bar
- > Patented vent and seal technology at 34 Bar



Method: InfantFormula, Vessel Type: Quartz, M/V: 0.7511g, Remarks: ,
Sample-ID: Infant Formula, Status: Successfully digested.

Racks

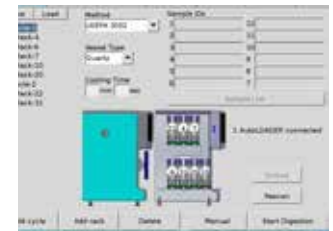


SOFTWARE INCLUDES

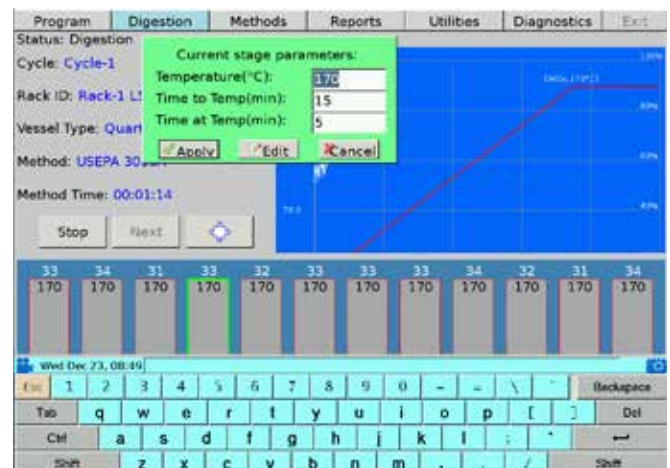
- RF tags identify sample racks and provide automatic sample identification
- Create and Save unlimited number of methods
- Call up stored methods with a simple key stroke
- Run up to 12 samples in a Rack
 - Run a single sample or up to 12 different samples in the same Rack
 - Run Teflon® or Quartz Vessels in the same Rack identified in software
- Use a single method for all samples in a rack or in a cycle
- Use multiple sample methods in a Rack
- Multiple step digestions
 - Variable "Time to Temperature" and Variable "Time at Temperature"
- Use a unique sample method for each Rack in a multi-Rack sequence



Setup method parameters.



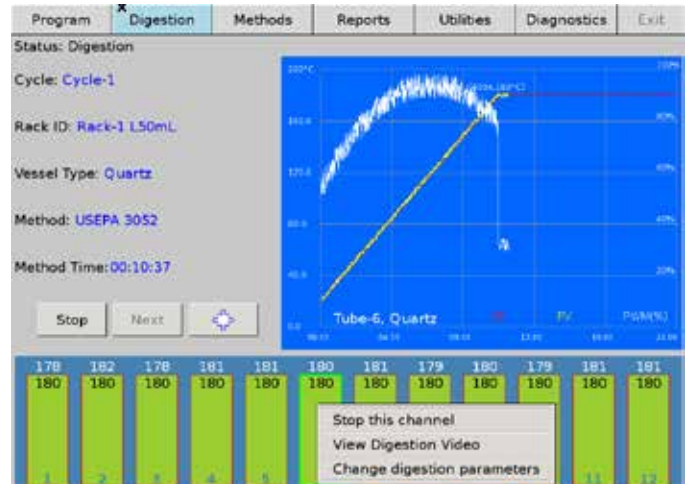
Setup method parameters for the MultiVIEW AutoLOADER.



Setup up Digestion Parameters with ease.

LARGE 15" COLOUR TOUCH SCREEN PROVIDES

- ▶ Complete visibility of all operational parameters, tabbed for easy access and convenience, including
 - Program
 - Digestion and cooling
 - Method creation and call up
 - Reports
 - Utilities
 - Diagnostics
- ▶ Ability to see, stop, and adjust a method on the fly
- ▶ Full digestion scan of Temperature vs Time for all 12 digestions in real time
- ▶ View individual channels full screen for maximum detail



Convenient operational tabs, at the top of the screen, for ease of use.

AUTOMATE TODAY... OR ADD AUTOMATION IN THE FUTURE

MultiVIEW Microwave Digestion System with the **AutoLOADER** Automatic Rack Loading Accessory

- ▶ Single **AutoLOADER** Unit can run 7 Racks of either 75 ml Teflon® or 75 ml Quartz vessels, or
 - Run mixed Racks of Teflon® and Quartz vessels.
- ▶ Couple up to 4 **AutoLOADER** Units, 300 samples, in series to maximize throughput in off-hours
- ▶ Fully controlled by **MultiVIEW**
- ▶ Add or Remove Racks during an on-going digestion cycle



MultiVIEW SAFETY FEATURES

- › Unique Rack design requires no personal contact when venting vessels
 - Ensures user safety around hot acid vapors
 - Chemist is not required to hold vessel to vent
- › With real time temperature monitoring and control, exothermic reactions are possible without venting
- › Temperature is read every 1 second on all vessels for tight temperature control to avoid venting and loss of sample
- › High Speed Exhaust Fan automatically speeds up during cooling
- › Side mounted, explosion-proof door on right side and not in front to
 - Protect the user
 - Save Space
 - Provides for hands-off automation
 - On opening, interlocks disable high voltage to magnetrons



CERTIFICATIONS:

EMC Tested and Approved.

EMC Emissions and Immunity Tested covering: FCC Part 18, subpart C; IEC/EN 61326-1; IEC/EN 61000-3-11; IEC/EN 61000-3-12; IEC/EN 61000-4-4; IEC/EN 61000-4-5; IEC/EN 61000-4-6; IEC/EN 61000-4-8.

Product Safety*.

CAN/CSA-C22.2 NO. 61010-1-12; CAN/CSA-C22.2 NO. 61010-2-010; UL 61010-1; UL 61010-2-010; IEC/EN 61010-1; IEC/EN 61010-2-010.

Radiation Hazard Power Density.

Tested according to 21 CFR Par 1030.10 C) 1,2,3 and IEC 61010-1 Clause 12.4.

* Critical safety components used in the *MultiVIEW* are in compliance with CE, CSA and UL. All polymeric materials used in the *MultiVIEW* are UL Recognized and have the appropriate flammability rating. Vessels are tested to three times pressure venting maximum.



SPECIFICATIONS

PHYSICAL

- › Height: 40"
- › Width: 24"
- › Depth: 28"
- › Weight: 245 lbs

ENVIRONMENTAL

- › Ambient Operating Temperature: 10 ~ 35 °C
- › Relative Humidity: 30 ~ 80%
- › Altitude: Up to 2000 m
- › Pollution Degree: Degree 2

ELECTRICAL

- › Nominal Voltage: 230V
- › Current: 20A
- › Frequency: 50/60 Hz
- › Installation/Overvoltage Category: Category II
- › Power Consumption (W): 4400
- › Apparent Power (VA): 4600

ORDERING INFORMATION

010-625-001 *MultiVIEW* Microwave Digestion System
010-625-002 *MultiVIEW* with *AutoLOADER*
010-625-004 *AutoLOADER*

010-625-005 *MultiVIEW* Rack, 75 ml Quartz, Calibrated
010-625-006 *MultiVIEW* Rack 75 ml Teflon® Vessels



ALSO AVAILABLE

DigiPREP 240 MS

High Temperature Block Digestion System
For sample digestions from ambient to 240 °C

010-500-420

DigiPREP 240 MS (230V)

010-500-421

DigiPREP 240 MS Combi (230V)



MinWAVE

Microwave Digestion System

For smaller labs
Digest 6 samples per rack

010-600-016

MinWAVE Rotating Digestion Module, 110V

... and more



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CONOSTAN and **PlasmaCAL** are well known brands from our Chemistry Department while **DigiTUBEs**, **DigiFILTERs**, **PlasmaFORM** Cones, **PlasmaFLOW** Nebulizers, and **EasyFLOW** pump tubing stem from our Supplies Manufacturing unit.

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