



QLAB 8000

Versatility, Safety, Productivity in Closed Vessel Digestions

Questron Technologies Corp.

QLAB 8000



Features and Benefits

On-line Applications Directory

- Easy* > Just call-up an application and run
- Convenient* > Over 100 procedures in memory
- Precise* > Select the best procedure for your needs
- Flexible* > Add your own procedures to the directory

On-line EPA protocols

No guess work and no calibrations required.

Controlled pressure up to 1500 psi

Our UHP vessels are equipped with Q-Sens™ sensor module. This unique optical point-of-contact temperature and pressure sensing assembly, applied for the first time in microwave digestion, provides the user the confidence and peace of mind to digest even the most difficult samples in larger volumes.

Controlled temperature up to 230°C

Assures complete digestion of even the most difficult samples.

Automated power control

Never again will you have to adjust power. One vessel or ten, the power adjusts automatically according to sample methodology.

Data storage and retrieval

Saves the complete procedure, digestion data and graphics automatically. Seamless operation in Windows® XP™ and Windows® 2000™ operating systems

Active PC notebook or desktop processing control

Precise, high speed direct computer control of pressure or temperature.

Peace of mind multi-layered safety features

- Every digestion protected with layered safety features:
- Q-Sens™ temperature and pressure sensing allows the computer to acquire updated information every 20 msecond enabling prompt corrective action
 - OPGuard™ pressure protection mechanism safely vents any vessel reaching 1000 psi. The mechanism safely directs the vessels contents out to the fume hood via the oven exhaust ducting and automatically shuts down microwave power
 - Rugged and fortified oven body guarantees operator safety in the worst scenarios

Applications

An exclusive feature of the QLAB 8000 is its library of sample digestion procedures, consisting of well over 100 sample types. Included are all of the EPA protocols and NPDES methods, plus a host of many other applications designed for our clients over the course of many years. New applications continue to be added and updates are always available to our clients at no charge. Here are some of our typical applications:

Sample type	Size (grams)	Digestion time (hr:min)
Alpha Alumina	1.00	0:30
Blood	1.50	0:15
Cellulose filter	1.10	0:23
Coal	0.40	0:25
Fish tissue	1.20	0:25
Gasoline	1.00	0:25
Grease	1.00	0:25
Paint chips	0.60	0:27
Paper pulp	1.50	0:23
Polypropylene	0.40	0:25
Steel	0.50	0:28
Styrene	0.60	0:20
Vegetation (dried)	0.75	0:22

Specifications

Oven

Microwave power output	Up to 1200 Watts
Magnetron frequency	2450 MHz
Utilities	208 VAC, 60 Hz, 20 Amps 220 VAC, 50 Hz, 20 Amps
Exhaust	150 CFM
Dimensions (width x depth x height)	
External	58 x 61 x 64 cm (23 x 24 x 25.5 in.)
Cavity	39 x 34 x 30.5 cm (15 x 13.5 x 12 in.)
Weight	75 kg. (165 lbs.)

Vessels Module

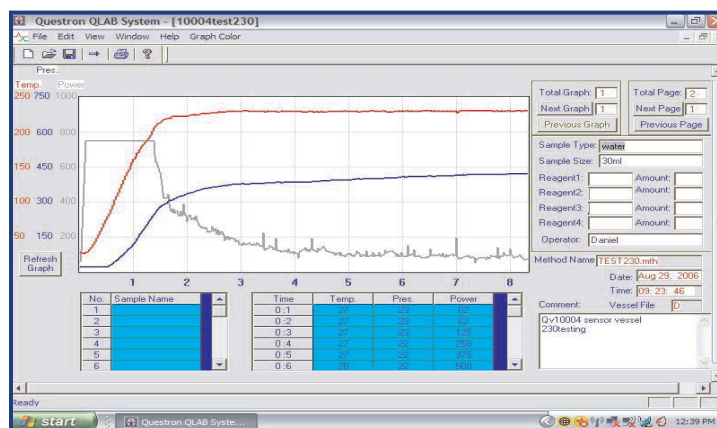
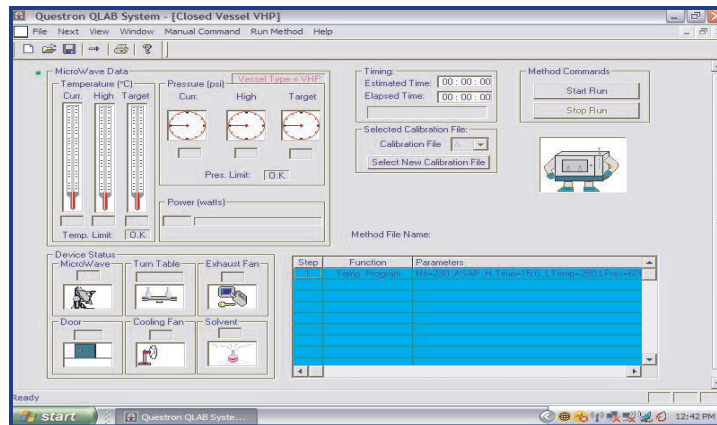
Supported vessels	UHP, VHP and LVHP
Maximum samples	10 (UHP & VHP) and 30 (LVHP)

Temperature & Pressure Limits

Absolute maximum temperature	300°C (UHP & VHP)
Maximum control temperature	230°C (UHP & VHP)
Absolute maximum pressure	151 bar/2200 psi (UHP) 69 bar/1000 psi (VHP)
Maximum control pressure	103 bar/1500 psi (UHP) 43 bar/625 psi (VHP)

Computer requirements

Pentium® PC Notebook or Desktop with Windows® XP™ or Windows® 2000™ operating system



Introducing LVHP

With the launch of our QLAB 8000 and our Q-Sens™ and OPGuard™ equipped vessels, Questron Technologies is proud to announce the introduction of our new vessels module called LVHP (Low Volume High Pressure) Vessels Module.

LVHP will be launched in the coming months as an answer to the need in modern labs for higher throughput and greater efficiency for digesting samples using the microwave digestion technique. If the samples to be processed require smaller sample size heating to less than 200°C with pressures below 400 psi, than our LVHP vessels will enable the simultaneous processing of up to 30 samples at a time.

LVHP > Safe, high throughput sample processing with temperature regulated microwave power.

Your local distributor:

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