



# Questron Technologies Corp.

***Chemistry – With Precision...***

World class solutions for Automated Sample Prep,  
Microwave Digestion/ Ashing, Liquid Handling,  
Lab Scrubbers, Accessories & Consumables.



## Automated Sample Prep Workstations & Microwave Digestion Solutions

Mining Industry | Soil Testing |  
Agriculture, Tobacco, Cannabis Industry | Food Industry  
Stack Pollution Testing | Water Pollution Testing  
Cosmetics | Pharmaceuticals & Nutraceuticals | Environmental



A first step for accurate metals analysis is bringing diverse samples into a mineralized state by applying heat & adding precise levels of heat and reagents.

Questron Technologies has dedicated twenty years in finding solutions to this complex process.

Our products digest, prepare and automate - with minimal contamination, highest accuracy and has long instrument life in a hostile environment of acids and heat.

We are proud to present our sample preparation products.

Should you need customised solutions, just give us a call!

## QLab Pro Microwave Digestion System

### *Rugged, Acid Resistant Design*

- Ideal for digestion, extraction, evaporation, and synthesis
- Built-in temperature and pressure monitoring of each digestion vessel
- User-independent safety features ensuring safe digestions
- Controlled release of over pressure to avoid cross-contamination
- Rotating antenna and 360° carousel rotation ensuring uniform microwave distribution
- Corrosion-proof PTFE-coated reinforced cavity for corrosion resistance
- Microwave power output in small increments for precise temperature control
- 150 CFM exhaust for fume removal and vessel cooling
- Spring-loaded door latches for enhanced safety



### *Configurations*

- Closed Vessel Time-To-Temperature  
Model QL-100-101 (50Hz) & QL-100-102 (60Hz)
- Closed Vessel Time-To-Power  
Model QL-100-103 (50Hz) & QL-100-104 (60Hz)
- Open Vessel Time-To-Power,  
Model QL-100-105 (50Hz) & QL-100-106 (60Hz)



LVHT Vessel



eVHP Vessel



## QLab Pro : Closed Digestion Vessels



eVHP Vessel Set

- Vessel for high throughput and moderate temperature requirements
- Possibility to digest 30 samples in single run
- Temperature monitoring for each vessel
- Vessels are individually pressure controlled and equipped with our unique resealing over-pressure guard (OPGuard™) vessel protection system
- Ideal solution for labs running large number of samples in every batch
- Option of sensor vessels for in-situ temperature and pressure measurements



LVHT Vessel Set

- Accurate temperature sensing ( $\pm 0.1$  °C sensitivity)
- Ease of loading carousel vessel by vessel inside the system's cavity
- Convenient manual release of residual pressure after digestion
- Compact Vessel Handling Station prepares vessel correctly every time
- Automatic protection against unusual heating of vessels
- Optimally designed carousel ensures uniform heating of all samples
- Temperature control for as low as 8 ml possible

## Accessory Products

### Laboratory Grade, Compact and Efficient Acid fumes Scrubber

Even if you have a roof-top scrubber, the acid fumes are better handled at the point of source, before they corrode and otherwise damage the conduits and other hardware to the roof-top. Questron's uniquely designed fume Scrubber was developed with our Vulcan product in mind, but it would find application at any place where concentrated and hot fumes are generated, such as in fume hoods. More than 90% efficiency is achieved for most exhaust constituents, such as HNO<sub>3</sub> and HF acids. The unit requires a source of clean water at 1 liter per minute. Package includes an acid resistant exhaust blower that provides exhaust flow through the scrubber at 1000 to 1400 ft per minute.



Laboratory Grade Scrubber  
**(18.5 " diameter X 34 " high)**

### Questron Portable Fume Enclosure

Questron Portable Fume Hood is an ideal choice in a laboratory application where a portable, table top, acid resistant enclosed space with a fume exhaust blower is required. It presents a viable alternative where permanently fixed fume hoods are too big and too expensive.

Two sizes are available. The 84-100-325A was ideally sized to accommodate one large size or standard size Questron digestion block. It has provision to continuously remove fumes from its inner space with a rugged acid resistant exhaust. The larger, 84-100-325B model can accommodate two large size Questron digestion blocks



## Accessory Products

### Reagent Bottle Storage Container

Designed with the Vulcan in mind, Questron Reagent Bottle Storage Container is ideal for safely storing glass or plastic bottles. The Container can sit beside or underneath the Workstation. The unit can accommodate six of 2.5 liter bottles of standard reagent or concentrated acid bottles. Separate compartments ensure that liquids posing danger or fuming or mixing can be separated. The unit is acid resistant and designed to catch accidental acid spillage. Gas tight entry ports and active removal of in-box fumes is possible via an exhaust line connected to lab exhaust system.

As additional feature enables use of commercial racks for installation in modular furniture.



### Storage & Digestion Sample tubes

Questron makes a wide variety of tubes of various constructions. Primarily, they are used in our Vulcan and QBlock instruments, but they can also find home in any application that requires sample storage, sample analysis, etc. Below is a small sampling of our standard products in this category.

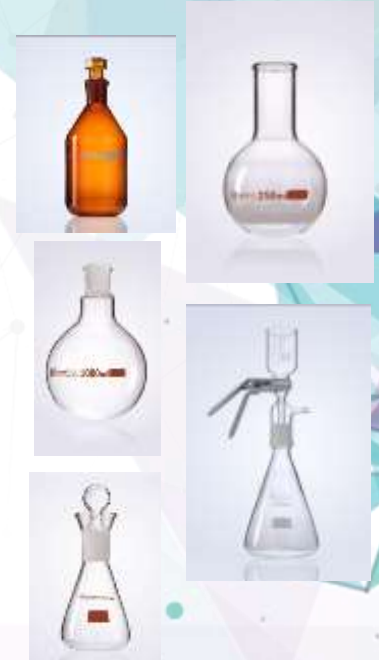


	<b>Polypropylene</b>	<b>Glass</b>	<b>Teflon</b>
<b>50 ml</b>	Yes	Yes	Yes
<b>100 ml</b>	Yes	Yes	Yes
<b>Temp.</b>	120 °C	650 °C	230 °C
<b>Usage</b>	Single	Multiple	Multiple
<b>Cap</b>	Yes	No	Yes

## Laboratory Glassware

Our Raw Material :

- We use low expansion Borosilicate 3.3 as per ASTM E-438 Type –I.
- Borosilicate 3.3 is highly resistant to almost all Chemicals, salt solutions and other organic solvents .
- The labware are highly heat resistant, high resistance to thermal shock & high mechanical strength.
- Thermal expansion between 0-300/°C is  $33 \times 10^{-7}/^{\circ}\text{C}$  and thermal conductivity 0.0027 cal/cm<sup>3</sup>/°C/Sec.
- Borosilicate 3.3 can handle temperature up to 240 degree Celsius for continuous usage under general laboratory conditions , whereas it can withstanding temperature around 400-450 degree Celsius for short-term usage .



## Questron Promise

At Questron Technologies Corp, we strive to be a world class developer, manufacturer, and marketer of scientific products and services. Using all our resources and knowledge base in mechatronics, material science, and chemistry, our primary goal is to present our clients worldwide with the very best sample prep products and tools modern technology can provide. The need to measure is a necessary part for any scientific enquiry. It is our passion to be a player in this enquiry - to provide top notch products and services to the scientific community.

From conception to manufacture to final delivery, Questron provides time saving, safe, reliable products, that are easy to learn and operate.

We are scientists serving scientists – you talk, we listen.

We take pride in our promise to work in accordance with our core values.

- ◆ Innovation: We challenge the status quo to continuously improve.
- ◆ Teamwork: We work together to achieve our goals.
- ◆ Accountability: We hold each other to a standard of excellence.
- ◆ Dedication: We are committed to giving our very best every day.
- ◆ Integrity: We promise to do the right thing even when it is difficult.
- ◆ Respect: We treat others the way we expect to be treated.
- ◆ Safety: We care for the safety of our community, and environment.



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