



### WORKSTATION

The WS6 downflow workstation is designed especially for histology and pathology laboratory analysis. The compact, versatile design of the WS6 makes a variety of installation formats possible according to individual needs. By drawing contaminated air downward into the stainless steel work surface, the WS6 provides excellent containment of potentially harmful vapors present when cutting or staining samples. Contaminated air is then drawn through a two-stage filter system for maximum fume adsorption. The advanced coconut shell carbon filtration media is designed to adsorb chemical vapors as well as neutralize a wide range of chemicals commonly used in histology and pathology. The open design and downward airflow pattern of the WS6 makes the unit particularly suited for microscopy work, or where close visibility is required. The workstation is ergonomically designed with integral fluorescent lighting to evenly illuminate the entire work surface, providing glare-free viewing, and helping eliminate operator fatigue.

#### MYSTAIRE MISONIX

For info: 919-229-8511 | [www.mystaire.com](http://www.mystaire.com)

### LASER SHUTTERS

SafeClose laser shutters, based on the proven rotor drive actuation technology modified to close on power down. The proprietary Rotor Drive actuator provides a reliable, multimillion-cycle operation and ability to withstand harsh environmental conditions, including wide temperature variations (from  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ ), high shock, and vibration in a clean environment. Designed for laser safety and laser switching, the SafeClose shutter was designed to be highly reliable and to always maintain laser safe conditions by closing automatically when power is interrupted. The fail-safe magnetic return mechanism guarantees that the blade will reliably close upon signal interruption. The SafeClose shutter does not require a separate controller and a simple 9V DC signal is sufficient to actuate the shutter and hold it open. With its small diameter/aperture, SafeClose shutters work efficiently with small beam diameter lasers and provided with a standard gold-plated blade design for high laser damage thresholds.

#### CVI MELLES GRIOT

For info: 505-296-9541 | [www.cvimellesgriot.com](http://www.cvimellesgriot.com)

### DIGITAL PCR SYSTEM

The QuantStudio 3D Digital PCR System is a scalable, chip-based instrument that features a simple workflow with minimal hands-on time. Designed with a scalable architecture, the QuantStudio 3D Digital PCR System's first generation chips enable up to 20,000 data points in a single run—coverage that satisfies the needs for most digital polymerase chain reaction (PCR) applications today. The capacity of future chips will increase exponentially to meet increasing demands of the research community. Digital PCR takes researchers beyond the limits of real-time PCR for applications that require absolute quantitation of targeted DNA molecules. Additionally, Life's simple workflow and chip-based platform reduce the risk of sample contamination and loss of DNA normally associated with droplet-based systems. The technology is ideal for accurately detecting rare mutations important in cancer or infectious diseases. It is also increasingly used as a mechanism to perform quality control experiments on next generation sequencing libraries.

#### LIFETECHNOLOGIES

For info: 800-955-6288 | [www.lifetechnologies.com](http://www.lifetechnologies.com)

### CHILLER UNIT

The FlowSyn Polar Bear is a state-of-the-art chiller unit which, in combination with FlowSyn Continuous Flow Reactor, allows users to perform and control reactions down to  $-88^{\circ}\text{C}$ . The FlowSyn Polar Bear is ideal for precooling reagents and controlling temperature in highly exothermic reactions. The system is compatible with the FlowSyn range of reactor modules and is designed to prevent ice formation so that you can clearly observe reactions as they occur. With its fully integrated plug-and-play design, the Polar Bear is both easy to install and simple to operate as well as providing superb cooling performance. The Polar Bear uses advanced cooling technology without the need for solid  $\text{CO}_2$ , solvents, or heat transfer fluids to deliver rapid cooling down to  $-88^{\circ}\text{C}$  at the simple touch of a button. The Polar Bear module is compatible with all Uniqsis coil reactors and mixer blocks and works in combination with and can be controlled by any FlowSyn flow reactor system.

#### UNIQUISIS

For info: +44-(0)-8458-647747 | [www.uniqsis.com](http://www.uniqsis.com)

### COMBUSTION SYSTEM

The Model OFCU-1 from Exeter Analytical provides a safe tool for preparing samples for elemental analysis of halogens, phosphorus, and sulfur using the Oxygen Flask Combustion procedure. The oxygen flask combustion procedure is provided as the preparatory step in the determination of bromine, chlorine, fluorine, iodine, phosphorus, and sulfur in some Pharmacopeial articles. Combustion of the material under test (usually organic) yields water-soluble inorganic products, which may be analyzed for specific elements as directed in the individual Pharmacopeia monograph or general chapter. The oxygen flask combustion procedure using the OFCU-1 can be used for repeatable determination of elemental composition from percentage levels to parts per million. The durably constructed Oxygen Flask Combustion Unit (OFCU-1) copes easily with a wide range of sample types and is very simple to set up, use, and maintain. The OFCU-1 remotely ignites samples inside a safety interlocked chamber using focused infrared heat from two tungsten-halogen lamps.

#### EXETER ANALYTICAL

For info: +44-(0)-2476-323223 | [www.exeteranalytical.co.uk](http://www.exeteranalytical.co.uk)

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# Science

## New Products

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