Positive Pressure Manifold

An alternative to the vacuum manifold, the Presston 100 Positive Pressure Manifold applies pressure from above to pass liquids through the sample preparation products. Presston 100 reduces the inconsistent pressures inherent in vacuum techniques, and its high-pressure capability enables the separation of viscous samples. Presston 100 is unique in that a single unit can prepare samples in tubes or 96-well plates; other manufacturers' manifolds require a separate unit for each format. Presston 100 is compatible with Phenomenex Strata solid-phase extraction, Novum simplified liquid extraction, Phree phospholipid removal, Impact protein precipitation plates, β-Gone β-glucuronidase removal, and Clarity BioSolutions for synthetic DNA and RNA. The ability to handle tubes or plates, along with the other advantages of positive pressure, allows the user to do more with just one instrument.

Phenomenex
For info: 310-212-0555
www.phenomenex.com

RT-PCR Machine

Designed for lower-throughput clinical labs, the ARIES M1 System is a fully integrated, sample-to-answer platform for performing real-time (RT) PCR assays. It is designed to empower satellite clinical laboratories to take advantage of the same benefits as Luminex's higher-throughput ARIES System, with features such as an intuitive system interface, STAT or batch testing, and true walkaway capability. The system extracts, amplifies, and detects nucleic acid targets from numerous sample types. Once the cassettes are loaded onto the instrument, results are generated without additional technical intervention. The ARIES M1 can process up to six different samples and assays at a time. The system offers efficiency and flexibility, freeing bench space with its narrow footprint and integrated computer, and performing multiple in vitro diagnostic assays in a single run with only minutes of assay prep time. The ARIES M1 offers a scalable solution for both hospitals and reference labs alike.

Luminex
For info: 877-785-2323
www.luminexcorp.com/aries

Miniature Inert Solenoid Pumps

Lee Products continues to develop its range of solenoid pumps in response to the ever-increasing demands of the medical and scientific industries for components requiring less space and weight that contribute to energy savings. Features include a revolutionary port-head design that allows tubing connections, and a manifold mounting that enables designers to test the fluidic system using connections to nonpermanent "soft connections." Once the system design has been finalized and approved, the same pump can be manifold-mounted using standard O-rings; this capability applies across the full range with $^{1}/_{16}$-in. or $^{3}/_{32}$-in. tubing. The pumps feature inert wetted (PEEK) body materials with a choice of FKM and EPDM as standard elastomers. Options include 12 volts direct current (VDC) or 24 VDC, and volumes of 10 µL, 25 µL, 50 µL, 100 µL, or 175 µL per dispense.

Lee Products
For info: +44-(0)-1753-886664
www.leeproducts.co.uk

Fermentation Vessel

Eppendorf expands its portfolio of rigid-wall, single-use vessels for fermentation. The Eppendorf BioBLU 3f was developed specifically for microbial bioprocessing in working volumes of 1.25 L to 3.75 L, extending the full range of operation for single-use fermentation from 60 mL to 3.75 L. These vessels specifically address the demands of high-cell–density fermentation of bacteria, yeasts, and fungi. Robust magnetic overhead drives featuring Rushton-type impellers support agitation rates up to 1,200 rpm and provide high-performance mass transfer. Eppendorf's exclusive integrated cooling baffles enable efficient heat removal for exothermic processes. The 3f's rigid-wall, industrial stirred-tank design ensures scalability and simplifies technology transfer. Its monolayer polymer material mitigates risk and uncertainty with regard to leachables and extractables, and its single-use bioreactors are designed as drop-in replacements for existing autoclavable fermentation vessels. They can be operated with Eppendorf bioprocess control stations BioFlo 115, BioFlo 310, and BioFlo 320.

Eppendorf
For info: 800-645-3050
www.eppendorf.com/BioBLUf

UV Analysis Lamps

Herolab produces a wide range of UV analysis lamps for short-, medium-, and long-wave UV, covering wavelengths of 254 nm, 312 nm, and 365 nm—thus there is a lamp for most laboratory applications. The lamps are constructed with powder-coated, lightweight metal housings. They have ergonomic handles and also offer a stand for hands-free operation. The range starts with small benchtop lamps and goes up to larger, industrial-size germicidal lamps. It is also possible to provide multiwave units for customers who need this extra flexibility. Herolab UV analysis lamps service a multitude of laboratory operations, including fluorescent particle detection in biological and chemical applications, destruction-free material testing, fissure tests, adhesive curing, compound potting, and coating testing. Each product meets all current safety standards and will give many years of service.

Herolab
For info: +49-(0)-6222-5802-0
www.herolab.de/index.php/en

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