



### Dosing Pumps

The Modular Dosing System (MoDoS) provides highly accurate, continuous delivery of fluids in laboratory, pilot-plant, or continuous-production processes. Each tailor-made MoDoS modular pump system is fully equipped and ready-to-use, and incorporates an HNP Mikrosysteme internal

gear pump, filters, sensors, valves, fluid connections, and controllers, all housed within a compact, sturdy aluminum frame. HNP Mikrosysteme's integral micro-annular gear pumps are chemically inert and particularly suited to handling aggressive and corrosive fluids. Their ranges of hermetically sealed pumps with a magnetic drive can be incorporated into the MoDoS dosing unit, ensuring increased operator safety, optimized production, no cross-contamination of pumped fluids, no wastage, and no environmental hazards due to leaks. MoDoS is ideal for fine chemical or pharmaceutical applications and can be specified for capacities ranging from 0.003 mL to 1152 mL/min, for differential pressures up to 80 bar, and for liquids with viscosities from 0.3 mPa to 1,000 mPa.

#### Michael Smith Engineers

For info: 800-316-7891

[www.michael-smith-engineers.co.uk](http://www.michael-smith-engineers.co.uk)

### Minicircle Technology

The MC-Easy System from AMS Biotechnology enables a simple, reproducible, and efficient way to produce high-quality minicircle DNA. Minicircles are circular DNA elements that no longer contain antibiotic resistance markers or the bacterial origin of replication. These small vectors can be used *in vivo* or *in vitro*, and provide for long-term transient expression of one or more transgenes without the risk of immunogenic responses caused by the bacterial backbone in standard plasmids. Minicircle DNA vectors allow sustained transgene expression in quiescent cells and tissues. The finely tuned growth and induction media produces minicircle DNA that is free of parental and genomic DNA contamination. The kit also includes an additional, innovative method for degrading any contaminating genomic DNA using an adenosine triphosphate (ATP)-dependent DNase reagent that will selectively remove genomic DNA without affecting minicircle DNA yield. This method produces clean, effective minicircles every time.

#### AMS Biotechnology

For info: 617-945-5033

[www.amsbio.com/minicircle-gene-expression.aspx](http://www.amsbio.com/minicircle-gene-expression.aspx)

### Electronic Lab Notebook

The IDBS E-WorkBook Cloud is a complete, end-to-end, cloud-based R&D platform that supports internal, external, and hybrid data management and research needs. By integrating the best of lab-based informatics solutions (ELN, LIMS, LES, SDMS, and more), the E-WorkBook Cloud goes beyond traditional lab management software, providing cutting-edge data capture and analysis tools, job requesting and management, inventory management, and biology and chemistry functionality. With the E-WorkBook, you get flexible, scalable, and powerful enterprise-level software combined into one of the world's foremost R&D software platforms, enabling you to start building the lab of the future.

#### IDBS

For info: 800-881-9953

[www.idbs.com/discover-e-workbook/eln](http://www.idbs.com/discover-e-workbook/eln)

### Reagent Reservoirs

Available in 96- and 384-well configurations, our reagent reservoirs are designed for simple integration into any automated liquid-handling system, are fully automation compatible, and are compliant with ANSI/SLAS standards. Reagent reservoirs provide an economical way to divide up reagents and wash stations on the decks of automated liquid-handling systems. By placing more than one reagent or wash station in each position, the overall size of the automation platform can be reduced, saving valuable bench space. Molded from high-purity polypropylene, each reservoir tray is highly resistant to heat and to most organic solvents, acids, and bases. Incorporating a low plate profile and a novel "pyramid bottom" design, Porvair reservoir trays provide easy access to all liquid contents, also ensuring a low reagent dead volume (down to <7  $\mu$ L) for 96- and 384-well-filling applications.

#### Porvair Sciences

For info: 800-552-3696

[www.porvair-sciences.com/reservoirs-1](http://www.porvair-sciences.com/reservoirs-1)

### Scanning Electron Microscope

The Thermo Scientific Prisma E Scanning Electron Microscope platform incorporates extensive automation and a friendly user interface that makes it easy to learn and operate in routine industrial applications, while preserving the flexibility needed in a research or academic setting. It features advanced automation; robust support for analytics; a large, precise, and flexible stage; and a wide range of optional accessories. Labs with narrower dedicated needs will value its speed and simplicity, while multiuser, multiapplication facilities will appreciate the broad selection of optional imaging detectors and analytical tools available on a single integrated platform. The Prisma's sample chamber readily handles large, heavy samples and accommodates advanced energy-dispersive X-ray spectroscopy (EDS) configurations that deliver fast, accurate elemental microanalysis. The system can operate over a wide range of vacuum conditions, permitting observations of nonconductive, wet, dirty, or outgassing samples in their natural states without the need for cleaning, drying, or coating, with no risk of damage to the instrument.

#### Thermo Fisher Scientific

For info: 866-356-0354

[www.thermofisher.com](http://www.thermofisher.com)

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# Science

## New Products

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