

Advertisement feature



Image supplied by Sarstedt

Spinstars

Centrifuge solutions

Meet the new centrifuge solutions from some of the top manufacturers in the industry. The list below can help you find a good match for your laboratory.

Sarstedt announces its benchtop **Mini Centrifuge** that is compact and lightweight with a 6" x 6" footprint, weighing in at only 2 lbs. It is designed for quick spin downs, microfiltrations and cell separations. The instrument features two interchangeable rotors for micro tubes (6 x 1.5/2.0ml) and 0.2ml PCR tubes with an operating speed of 6000 rpm and an RCF of 2000 x G.

Genevac has introduced **Auto-Defrost and Drain** as an option to improve the efficiency and drying effectiveness of its HT-4X, HT-8, HT-12 and HT-24 centrifugal evaporation systems. The unique auto-defrost and drain capability enables Genevac evaporators to automatically drain the condenser of volatile solvent between stages in a method, and at the end of a method to fully defrost and drain the system with no user interaction. With this feature, volatile solvents that boil off first and are collected in the condenser are simply removed. Higher boiling solvents are removed without the traditional problem of volatile solvent boiling out of the condenser spoiling the vacuum, which can affect the final dryness of samples. Prior to the availability of this feature, a user would be required to be present to manually drain the condenser after the volatile solvents were removed. Applications requiring removal of mixed solvents with differing boiling points, such as lyophilization or evaporation of

HPLC fractions, can now be carried out automatically enhancing the efficiency and effectiveness of the evaporation process. An additional benefit of the auto-defrost and drain function is that it will automatically defrost and drain the evaporator at the end of the method, so that it is ready for use the next time.

Beckman Coulter introduces a **new conical tube adapter** that spins 50 mL conical tubes in the Allegra X-15R and X-12 Series benchtop centrifuges. The new adapter accommodates 28 tubes per run in a BioCertified, self-balancing rotor and is ideal for cell harvesting and blood separation applications. The adapter runs at up to 5,250 x G in the ARIES 4 x 750mL self-balancing rotor, which detects and automatically corrects for imbalance, continuing the run without shutdown. "With this new conical tube adapter, we're delivering a unique combination of advantages – the highest capacity available, BioCertified operation and the self-balancing rotor technology," commented Barbara Keeler, Strategic Marketing Manager for Beckman Coulter.

Bio Rad introduces the **Model 16K Microcentrifuge**, a benchtop centrifuge designed for applications in teaching laboratories. This sturdy 18-place centrifuge is supplied with a rotor that accommodates either 1.5 or 2.0mL tubes. In addition to the

Material compiled by
Kenyon Hoag Associates

KENYON
HOAG
ASSOCIATES

Your Expert in Marketing to the World of Science.
www.kenyonhoag.com



Genevac introduces an Auto-Defrost and Drain option for its centrifugal evaporation systems.



The 50mL conical tube adapter from Beckman Coulter



NALGENE 1L Superspeed centrifuge bottles, from Thermo Scientific

Microcentrifuge, Bio Rad introduces the economical and reliable Mini Centrifuge. This centrifuge handles most teaching lab applications, including quick sample spin-downs and cell pelleting. This unit is provided with a microtube rotor, a PCR strip tube rotor, and adaptors for 0.4 and 0.5mL tubes.

The **Universal 320 centrifuge** by **Helmer** features a brushless drive, programmable run-up/run-down time, and an impulse key for short spins. The digital control panel stores and recalls 10 complete programs. RPM and RCF can be input in increments of 10 and run time is programmable in minutes and seconds. The housing is constructed of metal with a stainless steel chamber. Automatic rotor recognition insures proper rotor usage. Safety features include lid lock and hold, emergency lid release, and imbalance switch off. The Universal 320 can be equipped with a wide selection of rotors, including 9 swing-outs, 7 fixed angle, and specialized rotors for hematocrit and cytology applications. The new 1418 rotor is capable of spinning up to 32 15mL conical tubes at 4,500 RPM / 3,283 RCF and is ideal for applications that include cell culture, blood separation and urinalysis. The comprehensive range of accessories enables the Universal 320 to carry out virtually any centrifuging task, allowing for cost savings and better use of laboratory space.

Thermo Scientific announced the **Super Speed Centrifuge Workflow Solution** to help scientists centrifuge sample volumes at a higher capacity and at higher speeds than ever before. Researchers can now save a lot of time, running far less centrifugation cycles by taking advantage of the high volume, Super Speed Centrifuge Workflow

Solution. Separating large volumes of cell harvests and pelleting large volumes has never been quicker. This Super Speed workflow solution provides seamless compatibility between three components: the new **NALGENE 1L Super Speed centrifuge bottles, FIBERLite carbon fiber rotors, and Sorvall Superspeed centrifuges**. Suitable for centrifuge applications at very high speeds, the new NALGENE Super Speed 1L bottles are used to process cell harvests and intermediates for vaccine production, or for any application requiring large capacity pelleting of samples. When matched with a 1 x 4L FIBERLite carbon fiber rotor and a Sorvall RC-6 Plus or a 1 x 6L FIBERLite carbon fiber rotor and the Sorvall Evolution centrifuge, these precision engineered centrifuge bottles enable scientists to centrifuge up to 6 liters of sample at speeds that create forces of up to 15,810 x G. NALGENE 1L Super Speed Centrifuge Bottles expand usage of large centrifuge bottles beyond gross separation procedures to effectively increase productivity and throughput in the laboratory. Bottles constructed of polypropylene are translucent and display excellent chemical resistant, while the polycarbonate bottle is crystal clear. The wide mouth design facilitates pellet removal, and the bottle and closure assembly is autoclavable. Lot control is performed during manufacturing to enable traceability, and all bottles are in compliance with USP Class VI and ISO quality standards. NALGENE 1L Super Speed Centrifuge Bottles are non-pyrogenic and can be provided sterile for single-use applications. The ultra-lightweight carbon fiber rotors from FIBERLite are resistant to corrosion and fatigue delivering seamless

compatibility with both the new NALGENE 1L Super Speed centrifuge bottles and the Sorvall Superspeed centrifuge models. The rotors work to maximize high-throughput, high-speed centrifuge processes. The Sorvall RC 6 Plus and Evolution RC Superspeed centrifuges offer an extremely quick sample processing capability at speeds of up to 22,000 (55,200 x G) and 26,000 (70,450 x G) rpm, respectively. The two centrifuges can handle the most demanding of high-throughput applications as the Sorvall RC 6 Plus can process up to 4L, and the Evolution RC can process 6L. By eliminating the need for vacuum seals or filters, Sorvall Superspeed centrifuges reduce the risk of tube and bottle leakage. Both models comply with CE and CSA standards.

Companies mentioned in this Product Focus:

Beckman Coulter – www.beckmancoulter.com
 Bio Rad – www.bio-rad.com
 Genevac – www.genevac.com
 Helmer – www.helmer.com
 Sarstedt – www.sarstedt.com
 Thermo Scientific – www.thermo.com

"This article was compiled by Kenyon Hoag Associates and submitted to Nature. It has not been written by or reviewed by the Nature editorial team and Nature takes no responsibility for the accuracy or otherwise of the information provided. Submit press releases for consideration to productfocus@nature.com with the topic in the subject line."