

Centrifuge

Beckman Coulter Life Sciences expands its range of high-performance centrifuges with the Avanti JXN-30. The product improves workflow by delivering high-throughput performance and an increasingly varied separations capability.

The MobileFuge remote application enables users to access all types of data, carrying out remote monitoring, control and error handling via networks and mobile devices. Available for Apple iOS and Android devices, its data management capability combines with the network and MobileFuge applications to make the centrifuge especially suitable for shared lab environments.

Recycled resin is incorporated in the outer panelling of the centrifuge, and each instrument contains up to 3.4 kg of recycled PET bottles. A friction reduction system (FRS) enables the device to run quietly, increasing energy efficiency by reducing the air in the chamber. This in turn reduces rotor friction, minimising the effort required to accelerate and to maintain speed. The FRS also lowers the amount of heat present in the chamber, reducing refrigeration system usage.

The BioCertified fixed-angle and swinging-bucket rotors offer a range of biosafety options, including a dual-locking lid configuration for workflows that include biohazardous samples. This maintains biocontainment when removing and transporting the rotor to a containment hood. Centrifuge rotors range in capacity from 360 mL to 4 L, and some are independently certified to contain liquids and aerosols.

Built-in safety features ensure that no individual rotor exceeds the maximum speed permitted. A low work surface makes rotor handling easier with a foot pedal for hands-free lid opening. Large footpads allow the unit to be used unanchored. Interface options enable users to customise the touch screen with pictures, backgrounds, avatars and sounds. An optional pharmaceutical-grade sterilising filter system, located on the unit exterior for ease of access, also enhances biosafety.

Beckman Coulter Australia

www.beckmancoulter.com



Desktop SEM

The Phenom XL desktop SEM is a user-friendly and fast tool that allows full imaging of large samples up to 100 x 100 mm. The product features several innovations, yet it uses little energy, does not require special facilities and is small enough to fit on a standard table. Sample structures can quickly and easily be examined and their elemental composition determined using the fully integrated EDS system.

The company's venting/loading mechanism provides high throughput and ensures a time-to-image of less than 1 min. The four-segment BackScatter Detector (BSD) yields sharp images and provides chemical contrast information. The unit can also be equipped with a secondary electron detector (SED) that enables surface sensitive imaging. Other features include up to 100,000x magnification and 'never lost' navigation ensuring ease of use.

The user interface enables both existing and new users to quickly become familiar with the system and get the most out of it without the need for significant set-up or training. The 'single-shot' optical navigation camera allows the user to move to any spot on the sample with just a single click, within seconds. The ProSuite software includes applications such as ParticleMetric, PoroMetric, FiberMetric and 3D Roughness Reconstruction, which allow the user to further analyse samples.

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Hospital ware

Kartell has released a large collection of hospital wares, including invalid cups, sampling bottles for urine, kidney dishes and round bowls. The hospital wares are made to strict high-quality standards.

Kartell Kidney Dishes & Invalid Cups have good chemical and temperature resistance and are autoclavable. The company's Bed Pans have been moulded in white polypropylene and can withstand temperatures up to 120°C. Its Round Sampling Bottle & Container for Urine is available in sizes up to 2500 mL.

The company's Douche Cans or Irrigators are provided with a flat back and suspension tag. They are autoclavable and available in 1000 or 2000 mL.

The Kartell Round Bowl is a white bowl with a rim which is autoclavable at 121°C for 20 min. The product has a sturdy structure and features two grips that have been designed in the lower part of the rim to help carriage.

The company's smaller Input Pot is useful for storing or wet sterilising dissecting instruments. The larger Input Pot is suitable for storing larger instruments. Wide bases on both products make them stable and they are also autoclavable.

The company's Square Sampling Bottles for Urine can be used in hospitals for clearance testing on urine that has been collected throughout the day. They feature a specific design with a rectangular base for easy storage of the bottles and enhanced stability. The ergonomic design of the handgrip allows easy pouring. The bottles are available in sizes up to 2000 mL.

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Temperature and dewpoint meter

The testo 635-2-HPD is a portable humidity meter fitted with a high-pressure dewpoint probe. Available to rent from TechRentals, it is suitable for taking measurements in compressed air systems.

The illuminated display shows relative, absolute and degree of humidity, as well as enthalpy, temperature and dewpoint values for difference, min, max and mean. The fitted probe has a range of -60 to +50°C t_{pd} and 0 to 100% RH.

Other features include: an intuitive and practical interface; protection class IP54; storage for 10,000 measurement values; and PC software for archiving and documentation of data.

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