Article Side

Different types of centrifuge and its usage by Sonia Nathani

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As one of the leading science instruments manufacturers and exporters of science equipments, we specialize in complete range of basic and high end centrifuge and their accessories. These equipments are used in varied fields ranging from scientific research to industrial, medical and other R & D applications.

The efficiency standards that are created by us have provided a great platform to become a leading player in the global market. Our commitment to quality is persistent and with the help of this persistency and determination, we have pleased our customers on the lines of Quality, reliability, and pricing.

Centrifuge is a heavy machine that spins the test tube extremely fast. This creates a centrifugal force that pulls down the components to the bottom of the test tubes. More dense components of mixture migrate away from the axis of centrifuge, while less dense of the mixture migrate towards the axis. Chemists or biologists may increase the effective gravitational force on a test tube, so as to more rapidly and completely cause the precipitate to gather on the bottom of the tube. The remaining solution is called the â€œsupernateâ€• or supernatant liquid. This entire process is termed as centrifugation.

The rate of centrifugation is specified by the acceleration, applied to the sample, typically measured in revolutions per minute.

As per the usage of centrifuge, we can broadly divide them into several categories. General purpose lab centrifuge, High Speed Centrifuge, microfuge, refrigerated centrifuge and micro processor research centrifuge. The process of centrifugation for all these equipments are same, they vary according to their use.

General purpose lab centrifuges are truly versatile, when it comes to usage with stepless speed regulator. They possess a choice of rotor heads and adapters with a safety fuse.

As the name suggest, high speed lab centrifuges are designed for high speed centrifuging applications. The equipment is provided with speed control, digital temperature control cum indicator, digital timer, zero start interlock, and lid locking switch and is specifically used for pathological applications.

Microfuge centrifuge are used for Low Volume Centrifuging applications and are provided with stepless speed control, speed indicator and timer. They are used for laboratory as well as industrial applications.

Refrigerated centrifuge accommodates a large number of rotor heads of varying tube capacities. The equipment also features dynamic barke, lid locking switch, zero start inter lock and safety cut off in case of imbalance.

Microprocessor research centrifuge are environmental friendly equipment provided with CFC free cooling system, brush less induction motors, programmable micro processor control for pre setting RPM with a range of 100 to 20000, RCF temperature ranging from 10c to 40c.

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