

SpeedSep™ 5000

Bulk Magnetic Separation Station

LifeSep™—Biomagnetic Separations and Processing Solutions for Molecular and Cell Biology



Technology Leadership To Expand Your Opportunities

Our SpeedSep™ 5000 bulk separation station is simple, durable and an easy-to-use unit designed to accommodate a 5000 mL vessel for large scale magnetic particle processing.

Application

By placing a bottle/vessel into the separator, our high-energy, patented neodymium-iron-boron [Nd-Fe-B] magnet configuration will quickly draw super paramagnetic particles and isolate them in the solution. Once separation is complete, the particles are held firmly in place along the inner wall and off the bottom of the tube or vessel. The solution can then be drained.

Key Features

- > Innovative patented Nd-Fe-B design (U.S. Patent # 6,413,420)
- > Open-faced design for clear visibility and easy access to bottle/vessel
- > Rapid separation and superior retention of micro and nanometer particles
- > Beads are drawn clear off the bottom for easy aspiration
- > Durable and easy to use
- > Robust design with minimal stray field
- > Splash resistance
- > Increased safety and convenience from retractable magnet design
- > Improved safety from limited direct access to magnet
- > Improved reliability compared to more complex diafiltration systems

SpeedSep™ 5000 Bulk Magnetic Separation Station

Specifications

Simple Control

- > 3-way rocker switch to:
 - » Reverse direction
 - » Stop motor

Options

- > Integrated stirring
- > Integrated heating
- > Cart
- > Indicator LEDs
- > Drain valve (disposable)

Weight, Size and Power Requirements

- > Approximate weight: 180 lbs.
- > Dimensions: 30" W x 20"D x 18.5"T
- > Electrical power:
 - » 12V @ 2A input
 - » 120/240V external wall/desktop adapter
- > Vessel/standard bottle:
 - » 6.0" diameter, thin wall
 - » Capacity: 4.0L—5.0L
 - » Material: Polypropylene
 - » Easily cleaned by standard processes
 - » Inert to standard solutions
- > Vessel features:
 - » Large access
 - » Metal option for heating

**The best solution for your company:
Work with people who understand your system.**

Capability

In the most demanding process requirements, from nano-sized particle capture to continuous flow separation, we supply you with the technology, equipment and processes that will lead to increased productivity.

Our technical focus enables us to understand protocols and bead separation systems. For new and existing products, we can collaborate on methods to improve the rate of magnetic separation, improve wall retention, reduce cycle time and maximize yield. Our product solutions range from single-tube devices through automated systems as well as platforms for separating beads in 96 and 384 well trays.

Technology Leadership with Custom Solutions

- > Patented magnet technology
- > Improved yields
- > Process control
- > High throughput
- > OEM custom solutions

Care

The SpeedSep 5000 can be cleaned with mild detergent but should not be submerged in aqueous solutions. An annual maintenance program is provided for reliable performance. We offer maintenance agreements along with a one (1) year warranty.

Caution: Strong magnetic field

Separators should be handled with care and stored at a safe distance from magnetic media including computer hard drives, disks, video tapes, credit cards and watches. Persons with pacemakers/implants should be made aware of potential hazards associated with stray magnetic fields. Caution should be exercised with ferrous tools or objects.

Applications mentioned in Dexter Magnetic Technologies LifeSep™ literature are provided for informational purposes only. Dexter does not warrant that all applications have been tested or validated in Dexter laboratories using LifeSep products.

