



Biotage® Flash 400

The Industry Standard for Process-Scale Purification

Biotage® Flash 400 skid-mounted system is designed for kilogram scale separations. Built to last and engineered to perform, Flash 400 systems are the first choice of companies around the world for critical adsorption purification.

When considering larger, production scale equipment, robustness and safety are key factors for any device. Biotage® Flash 400 needs minimal maintenance and its design has proven to be extremely reliable over many years. Designed to optimize and provide operating pressures up to 100 psi, this system can run at flow rates up to 7 liters per minute, allowing operators to save hours or even days of separation time.

Built with materials that comply with FDA regulations and cGMP standards, the Flash 400 is the first choice of pharmaceutical

and contract manufacturing companies around the world for critical purification applications.

Two Module Sizes

Biotage® Flash 400 uses pre-packed cartridges and radial compression. Interchangeable barrels support use with either 400 mm x 300 mm (Flash 400M) or 400 x 600 mm (Flash 400L) cartridges. A system includes one of the compression module sizes. The module of the other size can be ordered as a compatible option.

Patented Compression Technology

Proven, patented radial compression technology maintains the bed's stability for cleaner, purer fractions. Extra force from radial compression ensures near zero "wall effects" and channeling inside each column.



Figure 18. The pneumatic control panel located on the top of the flash system frame makes operation easy. The panel is divided into three sections that allow users to control the pumping system, The hydraulic hoist is used to remove the head assembly, insert a cartridge.

Specifications

Max Flow Rate	7 L/min
Max Pressure	100 psi
Max Sample Load	4 kg
Pressure Control	Pneumatic control panel
Available Cartridges	Flash 400M Flash 400L
Available Media	Activated carbon Biotage® KP-SIL Biotage® KP-C18-HS Biotage® KP-NH Diaion HP20 Diaion HP20SS

Please enquire for more details.

Safety is Paramount

Safety is a design criteria on all Biotage systems. Designed for large quantities of solvents, the Flash 400 can operate in an explosion proof, no spark rated area. Air driven pump and hoists, proper grounding and pressure relief devices are some of the vital components included with every system. All systems comply with NEC Class 1, Division 1 and 2, Group C and D standards.

Scalable Results

Technologies such as crystallization and adsorption can be difficult and time consuming to scale up. With an extensive cartridge range, a test separation on a Biotage® SNAP 10 g column purifying small quantities can be transferred directly to the 40 kg Flash 400L size, a 4000x increase in scale.

Advantages

- » Radial compression
- » GMP compliant for production of API's
- » Custom cartridge packing service available
- » 7 L/min flow rate
- » Designed for both chromatographic purification and adsorption processing of a variety of organic synthetic and natural products
- » Minimizes exposure to highly active or toxic compounds
- » Available with normal- and reversed-phase silica, activated carbon, polymeric adsorbents or custom-packed media
- » Can purify over 4 kg of crude reaction mixture

Optional Accessories

- » Cartridge hoist