

CARR® VP Pilot

CARR® Centritech Separation Systems



Key Features

- Viafuge® bowl for gentle cell harvesting of shear sensitive cells
- Powerfuge® bowl for drier solids and cleaner concentrates for microbial separations
- Simple operation
- Improved product design
- Flexible optimization
- Steam-in-place option (SIP)
- Fully transportable tabletop design
- Variable speeds up to 20,000g
- CE Compliant
- Available for hazardous duty environments

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PSA's unique CARR VP Pilot combines fast, gentle, small-to-medium scale cell harvesting and supernatant recovery for shear cells such as mammalian and insect cells and high G-force for liquid/solid separations of bacteria, yeast, proteins or submicron particles.

Viafuge Bowl For General Operation

Cells are concentrated at the bowl wall while clarified supernatant is continuously discharged throughout the separation process. Once the bowl fills with cell concentrate to a capacity of 1.3L, a simple manifold system and concentrate pump is utilized to recover the cells without breaking containment. Subsequent cycles are performed for recovery of larger batches.

Improved Product Processing

Cellular damage can result in release of intracellular material such as DNA, which may increase downstream processing and in some cases impact product purity. Because the VP Pilot is gentle to cells, damage is minimized from the start of the process. For supernatant recovery applications, filtration requirements downstream may be reduced. For cell harvesting applications, intact cell recovery will be increased.

Low-Shear Design

The VP Pilot's unique design minimizes shear forces on cells. Incoming feed is matched to the bowl hub's rotational velocity, allowing fast, efficient harvesting of even the most shear-sensitive cells without causing cell damage.

Flexible Optimization:

Flexible operating conditions offer optimization for specific applications.

- Feed Rate 1 LPM
- G Force- UFD up to 20,000 x G
- Capacity- 1 liter solids space
- Temperature Control- Jacketed and vacuum.

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