



CARR®Centritech Separation Systems CARR® VP Pilot



Features

- Viafuge® bowl for gentle cell harvesting of shear sensitive cells
- Powerfuge® bowl for drier solids and cleaner centrates 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

CARR®Centritech Separation Systems CARR® VP Pilot

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



*For more information, please contact your CARR Centritech representative at:
5320 140th Avenue North
Clearwater, FL 33760 USA
(727) 535-4100
or
Otto-Hahn-Strasse 54
D-63303 Dreieich-Sprendlingen
Germany
(+49) 6103-38090*

**Angelus | Carr Centritech | ConsolidatedContinental/Closetech | Hema
Mateer BurtMulti-Tech Systems | OnTrack | Zepf Change Parts**

Pneumatic Scale Angelus

4485 Allen Road
Stow, OH 44224 USA

t. +1 (330) 923-0491
psangelus.com

