

CARR Centritech Separation Systems
CARR® ViaFuge® V12



Features:

- Unique SoftStream™ low-shear design
- Provides gentle separation with no cell damage
- 99% recovery of intact cells
- 99% reduction of solid load
- Up to 90% reduction in downstream filtration
- 20-fold concentration factor
- Medium-to-high-volume processing
- Flow rates up to 40 L/min
- Closed system design with CIP/SIP
- Concentrated cells and supernatant can be recovered without breaking containment
- Fully automated operation
- Integrates easily into automated processes
- State-of-the-art manufacturing facility located in Clearwater, FL.

Barry-Wehmiller

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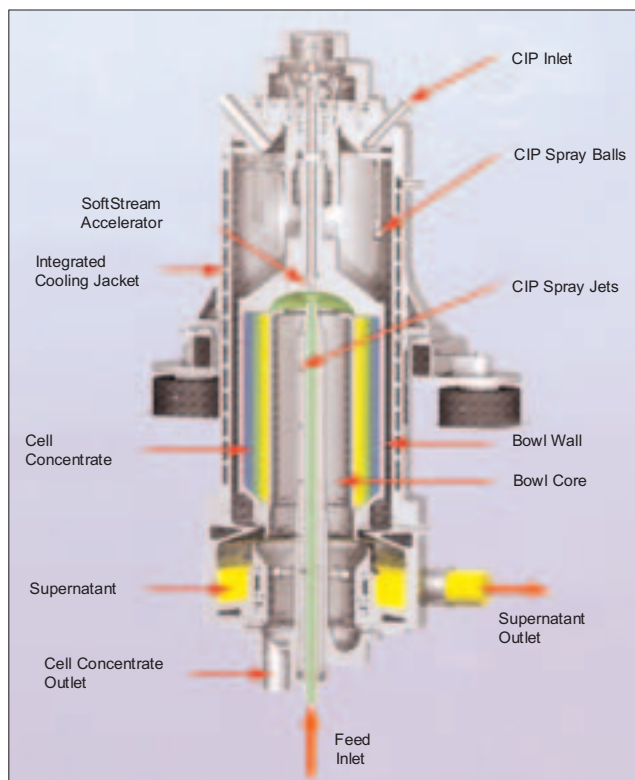
Production-Scale Cell Harvesting and Supernatant Recovery

Pneumatic Scale's unique ViaFuge V12 Cell Separation System offers a major breakthrough in gentle cell separations, with no damage at medium-to-large-scale production levels. The continuous-flow ViaFuge V12 allows rapid cell harvesting and supernatant clarifications with unsurpassed viability, 99% recovery of intact cells, and up to 90% reduction in filtration needs.

With flow rates up to 40 L/min and a variable speed drive, the ViaFuge V12's versatile performance characteristics enable the optimization of specific applications. Closed system operation allows recovery of concentrated cells and clarified supernatant without breaking containment.

Using an innovative patented design, the ViaFuge V12 introduces feed into the SoftStream™ accelerator through a stationary pipe, where it is accelerated to full rotational speed under low shear before entering the titanium-alloy bowl. Cells are then concentrated along a gentle path between the core and the bowl wall. The clarified supernatant is continuously discharged by gravity at atmospheric pressure. Periodically, the concentrated cells are automatically recovered from the ViaFuge V12 for collection, and the cycle is repeated to process the remainder of the feed batch.

Upon completion of the separation process, automated CIP/SIP cycles may be performed via the PLC-controlled TrueClean™ operating sequence. The ViaFuge V12 facilitates cGMP compliance by offering a simple sanitary design including strategic placement of sprayballs and jets, ASME-rated configurations for steam sterilization and a flexible CIP/SIP software program.



Machine Specifications

Flow Rate:	5 - 40 L/min. *
Bowl Capacity:	16.7 Liters
RCF Range:	500 - 5,000 g
Max. System Height:	90 in/2290 mm
Max. System Length:	68 in/1730 mm
Max. System Width:	36 in/910 mm
Electrical Configurations:	460V, 60Hz, 3-phase / 400V, 50Hz, 3-phase
Surface Finish (Ra):	<25
Bowl Material:	Titanium alloy, 6Al-4V annealed
Pressure Boundary Material:	Stainless steel, 316L
Portable (wheels):	Yes

**Actual capacity (throughput) is dependent on the characteristics of the fluids, amount and type of the solids and required degree of clarification. Practical capacities may differ substantially for your applications.*

**For more information, contact your CARR Centritech representative at the Clearwater facility listed below.*

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