

Buffer exchange

For Big Kahuna and Big Tuna

The automated, plate-based ultrafiltration and diafiltration (UF/DF) technology performs buffer exchange and concentration adjustments in a controlled and precise manner. Samples are exchanged under gentle mixing and positive pressure to ensure uniform exchange. Acoustic volume measurements, precise liquid handling and automated cycle adjustment allow for accurate and hands-off operation. Buffer exchange can be performed unattended over a large volume range with Unfilter 24 and Unfilter 96 options.



Specifications

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Description	Specification
Operational modes	Buffer exchange and sample concentration
Buffer exchange pressure chamber	Up to 60 psi with CDA or Nitrogen
Volume measurement	Ultrasonic sensor
Orbital shaker	0-1000 rpm (programmable speed and duration)
6-tip liquid dispensing arm	Variable pitch 9-20 mm
Filtration options	Unfilter 24: Up to 24 samples in parallel. 450 μ L-8 mL exchange volume. Unfilter 96: Up to 96 samples in parallel. 100-450 μ L exchange volume.
Protein concentration (range)	Up to 200 mg/mL*
Sample types	Antibodies and other proteins, nucleic acids, lipid nanoparticles (LNPs), adeno-associated viruses (AAVs), virus-like particles (VLPs)
Disposable tips	1000 μ L non-filtered
Dispense precision	<300 μ L: \leq 3 μ L 0.3-8 mL: \leq 1%
Operational temperature	Ambient. On-deck cooling options available on Big Kahuna systems.

*Protein and formulation dependent

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