



Acoustic Cell Processing System

ekko™ is a GMP capable platform technology for cell and gene therapy manufacturing. Based on the innovative application of acoustics, ekko can gently and efficiently process cells in ways that traditional mechanical or filtration methods cannot. With a wide range of operating conditions, ekko can be used to concentrate and wash cellular material in multiple unit operations throughout the process. Intuitive controls and a purpose built, single-use cartridge make ekko a flexible and scalable tool for early stage research through to GMP production.

Key Features

- Process small or large volumes of materials on the same platform
- Acoustic technology allows for continuous operation
- Intuitive interface and innovative cartridge design for ease of use
- Standard and custom protocols help streamline process development
- Closed and automated design



System Details

Feature	Description
Platform Technology	<ul style="list-style-type: none"> • Multi-dimensional acoustic standing wave generated by a piezo-electric transducer • Single-use cartridge containing fluid pathways and pinch locations for directing flow • Automated solenoids integrated into base unit to direct flow based on selected protocol • Bag holders for feed, wash, collection and waste, with integrated weight sensors
Functional Specifications	<ul style="list-style-type: none"> • Initial volume: 150mL to 5L (Input volume kit and protocol dependent) • Final volume: Down to 5ml • Volumetric capacity: 3L/hr based on peristaltic pump capacity
User Interface & Control	<ul style="list-style-type: none"> • 16" touchscreen monitor • Step by step setup instructions • Process specific protocols • Batch record management and exporting • Development App for custom protocol design
Software & Connectivity	<ul style="list-style-type: none"> • 21CFR Part11 compliant • Thumb drives for exporting (option to disable) • Wired ethernet, RJ45 connector (option to disable) • Bar code reader supplied
System Specifications	<ul style="list-style-type: none"> • Dimensions: 560mm x 460mm x 560mm: 22" x 18" x 22" • Weight: 41kg : 90lb • Power: X watts, 100-240 VAC, 50/60 Hz
Environment	<ul style="list-style-type: none"> • Standard laboratory environment, ambient temperatures in the range 7°C to 27°C (45°F to 81°F), 30 to 75% RH non-condensing, at altitudes ranging from sea level to 1600m
Safety and Compliance	<ul style="list-style-type: none"> • ekko is CE marked • IEC-61010 • UL listed

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The ekko acoustic cell processing system is GMP capable in its design. It has not been validated for any particular process. For applications requiring regulatory submissions, users may request supporting documentation from FloDesign Sonics to support their filing.

See operator's manual for additional information.

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