

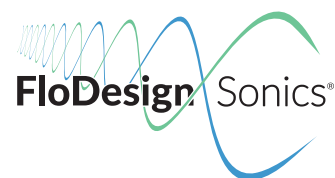
# ekko™ Acoustic Cell Processing System



The ekko™ acoustic cell processing system was designed for cell and gene therapy manufacturing. Based on the innovative application of acoustics, the ekko™ system can gently and efficiently process cells in ways that traditional mechanical or filtration methods cannot. With a wide range of operating conditions, the ekko™ system 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 the ekko™ system a flexible and scalable tool for the industrialization of cell therapy.

## 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



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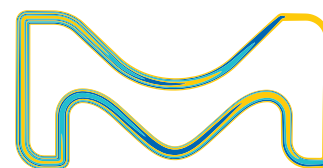
**MILLIPORE  
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## System Details

Feature	Description
Platform Technology	<ul style="list-style-type: none"> <li>Multi-dimensional acoustic standing wave generated by a piezoelectric transducer</li> <li>Single-use cartridge containing fluid pathways and pinch location for directing flow</li> <li>Automated solenoids integrated into base unit to direct flow based on selected protocol</li> <li>Bag holders for feed, wash, collection and waste</li> </ul>
Functional Specifications	<ul style="list-style-type: none"> <li>Input Volume: 120 mL to 5 L (process and application dependent)</li> <li>Output Volume: Down to &lt;100 mL</li> <li>Flow Rate: 10-120 mL/min or 0.6-7.2 L/hr based on peristaltic pump capacity</li> </ul>
User Interface & Control	<ul style="list-style-type: none"> <li>16" touchscreen monitor</li> <li>Step by step setup instructions</li> <li>Process specific protocols</li> <li>Batch record management and exporting</li> <li>Development App for custom protocol design</li> </ul>
Software & Connectivity	<ul style="list-style-type: none"> <li>Thumb drives for exporting (option to disable)</li> <li>Wired ethernet, RJ45 connector (option to disable)</li> </ul>
System Specifications	<ul style="list-style-type: none"> <li>Dimensions: 560mm x 460mm x 560mm: 22" x 18" x 22"</li> <li>Weight: 60 kg: 132 lbs</li> <li>FHU: 120-240 VAC, 50/60 Hz, 6/3 Amps</li> <li>SCU: 120-240 VAC, 50/60 Hz, 8/4 Amps</li> </ul>
Consumable	<ul style="list-style-type: none"> <li>Integrated cartridge includes flow housing, tubes, sensors, etc.</li> <li>Simplifies installation and reduces errors</li> <li>Valves integrated into FHU close tubing without contacting fluid</li> <li>Non-contact IR temperature sensors integrated into FHU</li> <li>Gamma irradiated</li> <li>Industry compatible tubing to support sterile welding, pumping, and product contact</li> </ul>
Operating Conditions	<ul style="list-style-type: none"> <li>Standard laboratory environment, ambient temperature (see User Manual for details)</li> </ul>
Safety and Compliance	<ul style="list-style-type: none"> <li>This product has been evaluated by Intertek Testing Services (ETL), an OSHA certified Nationally Recognized Testing Laboratory (NRTL)</li> <li>CE Marked for R&amp;D use. For more information on product compliance and certification, please refer to the Declaration Of Conformity</li> <li>The product has been evaluated by a Certified Body Testing Laboratory (CBTL) for global compliance. Please request additional information regarding specific market conformity</li> </ul>

FHU: Fluid Handling Unit  
SCU: System Control Unit

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