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HIAC 9703+ Liquid Particle Counter Performance Specifications

Model 9703+, combines HIAC's proven reliable technology and 35 years application knowledge, in a compact instrument for large and small volume testing. The automated sampling system of the 9703+ reduces sampling error and also reduces operator contamination of the samples. The 9703+ system uses a standard personal computer to provide user input, particle count data display, analysis and storage. PharmSpec software applications are provided to tailor the system to parenteral and medical device user needs.

Unique features found on the HIAC 9703+

- Industry's smallest tare volume
- Bubble and sensor contamination alarms
- Automated cleaning and flushing routine
- Interchangeable sensors, syringes and sample probes
- Sample safety switch
- Consistent, quality validation through industry leading on-site service, SOP consultation and IQ/OQ validation.
- Preconfigured compendia testing from USP, EP, KP and JP
- User configurable reports and testing routines.
- Minimal impact on SOP's
- Corrective action when data anomalies occur.

Sensor:

- The Sensor has a Stainless Steel Microcell – constructed with glass windows and Stainless Steel Shims to form the sampling view volume.

- The optical system of the sensor uses a laser diode with a “Grin” lens to collimate and focus the beam, with an additional negative lens that spreads the beam to cover 100% of the view volume.
- The Sensor can accommodate high concentration limits (18,000p/ml).
- The Sensor can accept high flow rates.

Sampler:

- The Sampler has the accuracy to meet USP 34 <788> requirements.
- The Sampler uses a stainless steel sampling probe.
- The Sampler automatically inserts and removes the sampling probe into and from the sample. Once the sampling probe height adjustments are made, the sampler automatically maintains these.
- The Sampler has a built-in magnetic stirrer with digital speed control.
- The Sampler has independent controls for flushing, purging and set up of the unit, and does not require the software to achieve all this.
- The sampler is designed to fit under a laminar flow hood.
- The “Hands Off” sample loading and unloading design complements proper sampling technique and prevents operator contamination of the sampling probe.
- One step sample loading.

Particle Counter:

- The Particle Counter is integrated into the sampler.
- The Particle Counter board has a 64000 channel resolution.

Environment and Use

- It is easy to clean due to its “crack and crevice-free” design, and thus facilitates adherence to GMP.
- The 9703+ system does not require a noisy pump or pressure air lines, and hence can be located anywhere in the laboratory.
- The 9703+ system allows for 16 adjustable (user selectable) size channels.

- USP <788> procedure is built-in for volume accuracy, glassware and limits tests (SVI & LVI). Pass and Fail results are built-in.

Software

- The PharmSpec software has a user definable report generator with historical reports.
- 21CFR Part 11 compliant
- The software is easy-to-use Windows based software that is instructional, stepping the operator through USP <788> procedures.

Flow Rate

- Faster flow rates than competition, wider sensor range than competitors
- The flow rate is digitally controlled.

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