halo labs

HORIZON® SYSTEM SPECIFICATIONS SHEET

HORIZON

HIGH THROUGHPUT LOW VOLUME SUBVISIBLE PARTICLE ANALYSIS

25 µL minimum volume
96 Sample automation
1 Minute per sample

ABOUT BACKGROUNDED MEMBRANE IMAGING (BMI)

BMI is a better way of measuring particles on membranes: First, a background image of the membrane is taken. Next, samples are vacuumed through the filter and subsequently re-imaged. The background and sample images are processed together in order to remove the membrane texture and identify particles.

PRODUCT SPECIFICATIONS

Technology	Backgrounded Membrane Imaging (BMI)
Particle Size Range	2 µm minimum to 4 mm maximum (ECD)
Minimum Sample Volume	5 µL qualitative, 25 µL quantitative
Maximum Sample Volume	>1 mL
Maximum Concentration	600,000 particles/mL (polydispersed ETFE)
Maximum Allowable Viscosity	35.5 cP (75% glycerol)
Membrane Pore Size	0.4 µm
Throughput	1 minute per sample (no washing)
Sample Format	96-well filter
Illumination Modes	Brightfield and side illumination
Software	All-in-one software suite (capture, image, and data analysis)
Refractive Index Impact	None (imaging in air)
Cross-Contamination	None (zero carryover)
Washing	None (disposable consumable)
Air Bubbles	Not measured (filtered away)
Light Source	LED 465 nm and LED 455 nm
Power	Universal input (90-264 Vac)
Instrument Dimension	13.5 in x 18 in x 13 in
Instrument Weight	56 lbs

Rev B