

Sample Preparation System

PS-10™



User Programmable Procedures:

- Lyse no-wash, lyse-wash, pre-lyse (bulk), intracellular staining and custom sequences
- Variables: sample volume, antibody volumes, cocktail volume, lyse volumes, buffer and bulk reagent volumes, incubation times and mixing

Sample and Reagent Volume Ranges:

- Variable based on fixed, linear or threshold WBC count adjustment
- Loading via autosampler or open tube positions
- Monoclonal antibodies: 0.5 μL – 300 μL , either single clone vials or cocktail vials
- Lyse/buffer solutions: 100 μL – 2,000 μL , configurable
- Primary sample: 20 μL - 600 μL

Reagent Capacity:

- System fluid: (DI H₂O) 9 L
- Waste: 9 L
- Lyse/buffer solutions: 4 x 500 mL
- Probe accessible lyse/buffer solutions: 2 x 125 mL or 2 x 30 mL
- Monoclonal antibody positions: up to 90 standard vials
- Monoclonal Peltier cooling: 2° – 8° C for up to 30 Sysmex standard and cocktail vials

Sample Tube Capacity:

- 50 primary sample tubes simultaneously via autosampler
- Up to 48 daughter tubes via 2 racks: 24 tube fixed rotor or 12 or 24 swing-out rotors compatible with Helmer UltraCW® II centrifuge for automated sample wash steps

System Performance:

Carryover:

- Primary sample: $\leq 0.01\%$
- Antibody: $\leq 0.01\%$
- Lyse/Buffer: $\leq 0.1\%$

Accuracy:

- Sample: 20 μL – 49 μL +/- 10% by volume
- Sample: 50 μL – 600 μL +/- 5% by volume
- Antibody: 0.5 μL – 19 μL +/-20% by volume
- Antibody: 20 μL – 300 μL +/-7% by volume
- Lyse: 100 μL – 2,000 μL +/-3% by volume

Precision:

- Sample: 20 μL – 600 μL CV $\leq 5\%$ by volume
- Antibody: 0.5 μL – 19 μL CV $\leq 15\%$ by volume
- Antibody: 20 μL – 300 μL CV $\leq 5\%$ by volume
- Lyse: 100 μL – 2,000 μL CV $\leq 3\%$ by volume

Throughput:

- 48 tests/hour, two-tube panel, lyse no-wash

Weight:	285 lbs (129 kg)
Instrument Dimensions:	<ul style="list-style-type: none">• PS-10: 41.8" H x 29.7" W x 37" D (106.3 cm x 75.5 cm x 94 cm)• Optional base: 28" H x 39" W x 45" D (70.6 cm x 100 cm x 114 cm)• With monitor/keyboard: 52" W (132 cm)
Reagent Racks:	Positions for up to 90 simultaneous on-board vials
Power Requirements:	100-240 VAC +/-10%, 50/60 Hz, 10 Amps
Environment:	<ul style="list-style-type: none">• Operating temperature: 59° – 95° F (15° – 35° C)• Operating relative humidity: 10% – 80% non-condensing• Noise level: Standby mode <60 dB• Run mode <75 dB peak

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