



PS-10TM

Sample Preparation System

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

Sample and Reagent Volume Ranges:

- Variable based on fixed, linear, or threshold WBC count adjustment
- Loading via autosampler or open tube positions
- Monoclonal antibodies: 4 μ L – 100 μ L, either single clone vials or cocktail vials
- Lyse/buffer solutions: 450 μ L -2000 μ L, configurable

Reagent Capacity:

- System fluid: (DI H₂O) 9L
- Waste: 9L
- Lyse/buffer solutions: 4 X 500mL
- Probe accessible lyse/buffer solutions: 2 X 125mL
- Monoclonal antibody positions: up to 90 standard vials
- Monoclonal Peltier cooling: 2 °C – 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 position fixed rotor compatible with Helmer UltraCW[®] II centrifuge for automated sample wash steps

System Performance:

- Carryover:
 - Lyse/buffer: $\leq 0.01\%$
 - Primary blood sample: $\leq 0.1\%$
 - Monoclonal antibody: $\leq 0.01\%$
- Accuracy:
 - Sample: 20 μ L – 49 μ L +/- 10% by volume
 - Sample: 50 μ L – 100 μ L +/- 5% by volume
 - Antibody: 4 μ L – 19 μ L +/-20% by volume
 - Antibody: 20 μ L – 100 μ L +/-7% by volume
 - Lyse: 450 μ L – 2000 μ L +/-3% by volume
- Precision:
 - Sample: 20 μ L – 100 μ L CV $\leq 5\%$ by volume
 - Antibody: 4 μ L – 19 μ L CV $\leq 15\%$ by volume
 - Antibody: 20 μ L – 100 μ L CV $\leq 5\%$ by volume
 - Lyse: 450 μ L – 2000 μ L CV $\leq 3\%$ by volume
- Throughput:
 - 48 tests/hour, two-tube panel, lyse no-wash

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

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