

 **NOW AVAILABLE**

Robotic sample preparation for the chromatography laboratory: Easy, precise and affordable workflow automation

E·PREP [®]

intelligent sample preparation

Robotic Workstation

- *Sample Prep*
- *Liquid Handling*
- *μSPE*



LIQUID HANDLING AND SAMPLE PREPARATION

Liquid handling precision

Liquid: 0.3% RSD dispensed at 5% syringe volume position.

Mechanical: $\pm 50\mu\text{m}$ plunger displacement precision.

Liquid handling accuracy

$< \pm 1.0\%$ of total syringe volume with an uncalibrated syringe

Syringes can be calibrated for greater accuracy.

Carry-over

For multi-use liquid handling tools an integrated wash station is used to control and eliminate carry over. The carry-over actually achieved depends on the syringe type, sample characteristics, and user set parameters in the software.

Volume range

Minimum volume: $5\mu\text{L}$ (precision of lower volumes is based on operating conditions). Maximum volume: 10mL per dispense with unlimited volume achievable using multiple aspirate/dispense cycles.

Flow rates

100 μL syringe: 5nL/min - 18.0 mL/min

1mL syringe : 50nL/min - 33.0 mL/min

10mL syringe : 500nL/min - 36.0 mL/min

Data Security

Multilevel rights controlled by user login.

Software logs Date/Time, Output ID, Workflow ID, Processes. Log report formats in TXT and PDF.

21CFR Part 11 compliance.

Wash Station

Deck mounted syringe Wash Station. Pump driven with active waste removal. External solvent and waste reservoirs (reservoirs not supplied).

Asset Identification

RFID identification on syringes, tools and racks. Optional 1D and 2D bar code identification on vials.

Available Accessories (Optional)

Shaker, Gripper, Barcode Reader, Direct Detector Interface, Multiport Reagent Manifold, μSPEed Cartridge Rack.

OPERATIONAL INFORMATION

Sample Capacity

Samples/Reagents can be contained in a wide variety of vial sizes and racks depending on deck configuration and application.

Typical dispense volumes of 100 μL to 10mL.

Total 880mm x 330mm deck space.

Can be configured as 16 rack individual adapter plates with dimensions of 55mm x 330mm OR double adapter plates of 110mm X 330mm.

Supports range of vials from 96 well micro titer plates to 60mL bottles.

Laboratory

Sealed vial operation means a hood is not required. It is suggested well ventilated and climate controlled environment is used. If using toxic materials take appropriate safety precautions.

Tablet Controller and Software

Microsoft Touch Screen Surface Pro (Supplied) including ePrep's Axis rapid Workflow development software (English only) and lifetime updates.

Connectivity Tablet-to-Instrument

USB or Bluetooth

AFFORDABLE LABORATORY AUTOMATION

Quick to program, robust construction, flexibility, accuracy and user-friendly operation sit at the core of effective and efficient modern sample preparation. By achieving all these features in a single instrument the ePrep Work Station is the essential instrument for laboratory sample preparation.