empowering biotechnology

BioIntegrated SOLUTIONS

BIS V FLex

TM

LIQUID HANDLING SYSTEM

Conserve Bench Space, Work In the Vertical Dimension
A Compact and Robust Automated Vertical Liquid Handling System



Bio Integrated Solutions Inc 1299 North Arbor Lane, Palatine IL 60067

(847) 712-3085 ; (815) 642-0975 (FAX) www.biointsol.com





Modular, Flexible Layout

(4 Probe Independent Movement with Variable Span: 9 – 27 mm, Integrated Grippers and TWO Dual Manifolds)

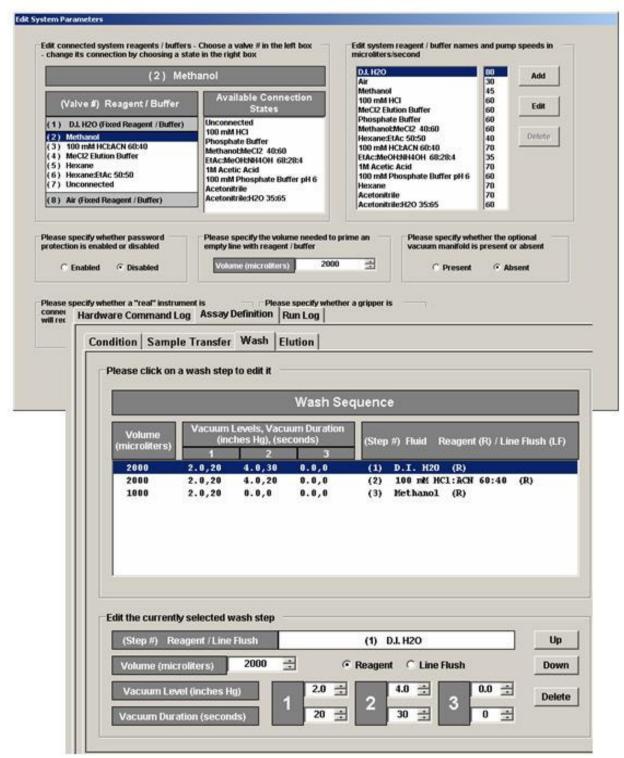
- Modular Vertical configuration with small footprint facilitates ability to add external modules without requiring more bench space.
- External bulk reagent dispensing (25 ml 10 ml), saving critical desk space and significantly increasing the throughput supporting organic and inorganic buffers for SPE applications with integrated 8 way valve (upto 6 buffers excluding system fluid).
- Disposable Tips to ensure sample integrity (1000 ml 20 ml).
- Four probe with independent axis configurations enables cherry picking for use with 96-well plates and test tubes with
 optional variable span. The flexible format supports 384-well plates, test tubes, other types of vials.
- Gripper Hand Option facilitates transfer of manifold top or tubes or vials for fully unattended operation using the dual vacuum manifold.
- 3 Level vacuum control for columns, and pulsing vacuum for plates that enables low elution volumes (100 ml). PID controlled vacuum provides uniform reproducible vacuum conditions, independent of the number of samples being processed
- Intuitive and Flexible Software Interface for SPE and Drug Discovery Applications ideal for production and methods development.
- Enclosed system designed to handle chemical vapors, hood compatible.

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Empowering BioTechnology ™



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- Solid Phase Extraction (SPE) for Chromatographic Analysis, Blood, Drug Abuse Testing, Forensics Applications.
- Sample transfer of Test Tube and/or Vials for Micro plates.
- DNA/RNA Purification, PCR Preparation, Enzyme Reaction Setup.
- Magnetic Bead Separation.
- · Re-formatting, Cherry-Picking, Low Volume Dispensing.
- Other Custom Applications.

Instrument Configuration	V FLex 4x3 FIXED™	V FLex 4x3™
Dimensions		
WxDxH His Top of Instrument	26.00" x 26.00" x 42.00" 65 cm x 65 cm x 105 cm	26.00" x 26.00" x 42.00" 65 cm x 65 cm x 105 cm
Number of Probes	4 Probes Fixed Spacing (9 / 18 mm)	4 Probes Variable Spacing (9 – 27 mm)
Tip Types Probe Management	Fixed Washable Stainless Steel Probe Compatible with Disposable Tips(10, 20, 200, 1000 µl) Low Volume Probes; Septum Piercing Tips OPTIONAL	Fixed Washable Stainless Steel Probe Compatible with Disposable Tips(10, 20, 200, 1000 µl) Low Volume Probes; Septum Piercing Tips OPTIONAL
Bulk Reagent Dispensing	STANDARD	STANDARD
Bulk Reagent Aspiration	STANDARD	STANDARD
Multi Channel Valve	8 way valve STANDARD	8 way valve STANDARD
Liquid Level Detection	OPTIONAL	OPTIONAL
Variable Span	NA NA	OPTIONAL
Gripper	OPTIONAL	OPTIONAL
Barcode	OPTIONAL	OPTIONAL
Syringe	Continous Flow, Solvent Compatible for SPE Applications, LV Tips available 10% CV, 25% Acc racy g 20 பு 50% CV, 70% Acc racy g 5 பு	Continous Flow, Solvent Compatible for SPE Applications, LV Tips available 10% CV, 25% Acc racy @ 20 ய 50% CV, 70% Acc racy @ 5 ய
Carryover	Less than 10 ^{-a} using Teflon Coated Stainless Steel Probes	Less than 10 ⁻⁸ using Teflon Coated Stainless Steel Probes
Positioning Accuracy	All Axes -0.10 mm (0.004 hol) 0.10 mm (0.004 hol) Axto Aligalis	All Axes -0.10 mm (0.00 & lich) 0.10 mm (0.00 & lich) Auto Aligaling
Computer Specifications (Included with the system)	PC Pentium II or Better, 512 Mbytes RAM Montor VGA (600 x 600) RS-232 Sertal Ports, USB, Windows 2000 / NT Compatible	PC Pentium II or Better, \$12 Mbytes RAM Montfor VS A (800 x 600) RS-232 Sertal Ports, USB, Wildows 2000 / NT Compatible
External Interfaces	TTL Input / Output Pins 24 VDC Power Inputs Relays for External Devices	TTL Input / Output Pins 24 VDC Power Inputs Relays for External Devices
Power Supply Requirements	90 – 260 VAC Auto Selecting, 50 – 60 Hz, 450 / 625 Watts	90 – 260 VAC Auto Selecting, 50 – 60 Hz, 450 / 625 Watts
Regulatory Standards	Designed for Compliance with CE & CSA standards	Designed for Compliance with CE & CSA standards
Touch Keypad/Monitor Option	Optional with on board "Flash Chip"	Optional with on board "Flash Chip"
Configuration Options	Heating / Cooling Stations Magnetic Bead Labware Shakers, LV & Septum Piercing Tips	Heating / Cooling Stations Magnetic Bead Labware Shakers, LV & Septum Piercing Tips
Pricing Information	OBM Packages Available (847) 712-3085; info@biointsol.com	OBM Packages Available (847) 712 3085; info@biointsol.com