



BioIntegrated
SOLUTIONS

Empowering Biotechnology™

V FLeX™ LIQUID HANDLING SYSTEMS

Conserve Bench Space, Work In the Vertical Dimension

A Compact and Robust Automated Vertical Liquid Handling System



V FLeX™

V FLeX Jr™

TWO UNIQUE FOOTPRINTS

Bio Integrated Solutions Inc.
453 A South Vermont Street, Palatine, IL - 60067
Tel: (847) 934-4784; Fax: (847) 934-4785
www.biointsol.com



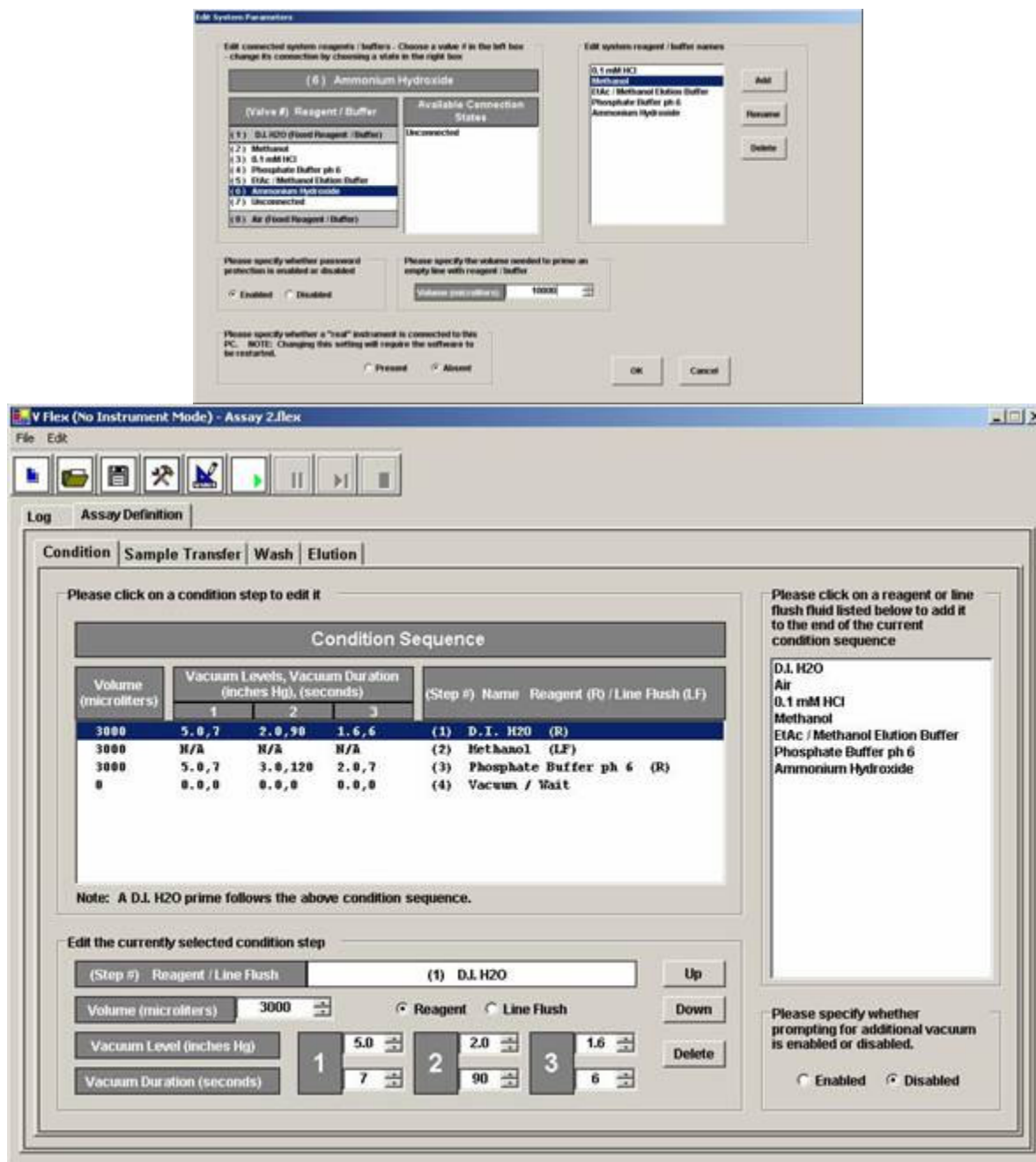
Deck Layout

4 Probe Variable Span (9 – 27 mm) with Integrated Gripper

Features:

- ✓ Flexibility to meet your demanding assay needs.
- ✓ Modular Vertical configuration with small footprint facilitates ability to add additional modules without requiring more bench space.
- ✓ Disposable Tips to ensure sample integrity (1000 µl – 20 µl).
- ✓ Four probe dual axis configurations for use with 96-well plates and test tubes with optional variable span supporting 384-well plates and other types of vials.
- ✓ Gripper Hand Option facilitates transfer of manifold top or tubes or vials for fully unattended operation.
- ✓ Dual Vacuum Manifold to ensure high throughput (2 microplates / 96 test tubes) without any user intervention.
- ✓ 3 Level vacuum control with pulsing vacuum ensures low elution volumes (100 µl).
- ✓ External Bulk Reagent Dispensing for large and small aliquots supports a variety of higher throughput applications (upto 6 buffers excluding system fluid).
- ✓ External Bulk Reagent Aspiration option for large and small aliquots.
- ✓ Bar coding optional.
- ✓ Intuitive and Flexible Software Interface for simplified operation.
- ✓ Designed to handle chemical vapors, hood compatible.

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Graphical User Interface

Applications:

- 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.

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Specifications:

Instrument Configuration	Vflex Jr 4x2 FIXED™	VFlex Jr 4x2™	VFlex 4x3 FIXED™	VFlex 4x3™
Dimensions W x D x H H is Top of Instrument	20.00" x 20.00" x 30.00" 50 cm x 50cm x 75cm	20.00" x 20.00" x 30.00" 50 cm x 50cm x 75cm	26.00" x 26.00" x 42.00" 65 cm x 65cm x 105cm	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)	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	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	STANDARD	STANDARD
Bulk Reagent Aspiration	STANDARD	STANDARD	STANDARD	STANDARD
Liquid Level Detection	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Variable Span	NA	OPTIONAL	NA	OPTIONAL
Gripper	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Barcode	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Syringe	Low Capacity 100 µl; High Capacity 15000 µl +	Low Capacity 100 µl; High Capacity 15000 µl +	Low Capacity 100 µl; High Capacity 15000 µl +	Low Capacity 100 µl; High Capacity 15000 µl +
Carryover	Less than 10 ⁻⁶ using Teflon Coated Stainless Steel Probes	Less than 10 ⁻⁶ using Teflon Coated Stainless Steel Probes	Less than 10 ⁻⁶ using Teflon Coated Stainless Steel Probes	Less than 10 ⁻⁶ using Teflon Coated Stainless Steel Probes
Positioning Accuracy	All Axes -0.10 mm (0.004 inch) 0.10 mm (0.004 inch) Auto Aligning	All Axes -0.10 mm (0.004 inch) 0.10 mm (0.004 inch) Auto Aligning	All Axes -0.10 mm (0.004 inch) 0.10 mm (0.004 inch) Auto Aligning	All Axes -0.10 mm (0.004 inch) 0.10 mm (0.004 inch) Auto Aligning
Computer Specifications (Not included with the system)	PC Pentium II or Better, 512 Mbytes RAM Monitor VGA (800 x 600) RS-232 Serial Ports, USB, Windows 2000 / NT Compatible	PC Pentium II or Better, 512 Mbytes RAM Monitor VGA (800 x 600) RS-232 Serial Ports, USB, Windows 2000 / NT Compatible	PC Pentium II or Better, 512 Mbytes RAM Monitor VGA (800 x 600) RS-232 Serial Ports, USB, Windows 2000 / NT Compatible	PC Pentium II or Better, 512 Mbytes RAM Monitor VGA (800 x 600) RS-232 Serial Ports, USB, Windows 2000 / NT Compatible
External Interfaces (OPTIONAL)	4 Universal Serial Bus Port 4TTL Input / Output Pins 24 VDC Power Inputs Relays for External Devices	4 Universal Serial Bus Port 4TTL Input / Output Pins 24 VDC Power Inputs Relays for External Devices	4 Universal Serial Bus Port 4TTL Input / Output Pins 24 VDC Power Inputs Relays for External Devices	4 Universal Serial Bus Port 4TTL 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	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 UL & CE standards	Designed for Compliance with UL & CE standards	Designed for Compliance with UL & CE standards	Designed for Compliance with UL & CE standards
Touch Keypad/Monitor Option	OPTIONAL	OPTIONAL	Optional with on board "Flash Chip"	Optional with on board "Flash Chip"
Configuration Options	Vacuum Manifold Assemblies Heating / Cooling Stations Magnetic Bead Labware Shakers	Vacuum Manifold Assemblies Heating / Cooling Stations Magnetic Bead Labware Shakers	Vacuum Manifold Assemblies Heating / Cooling Stations Magnetic Bead Labware Shakers	Vacuum Manifold Assemblies Heating / Cooling Stations Magnetic Bead Labware Shakers
Pricing Information	OEM Packages Available (847) 934 4784; info@biointsol.com	OEM Packages Available (847) 934 4784; info@biointsol.com	OEM Packages Available (847) 934 4784; info@biointsol.com	OEM Packages Available (847) 934 4784; info@biointsol.com

Ordering Information

BIS Vflex Jr™ 4x3 Liquid Handling System – 12 micro plate shelf capacity, 4 probe configuration, Dual Vacuum Manifold

[Inquire](#)

BIS VFlex 4x3 FIXED™ Liquid Handling System – 12 micro plate shelf capacity, 4 probe configuration, Dual Vacuum Manifold, Fixed Span

[Inquire](#)

BIS VFlex 4x3™ Liquid Handling System – 12 micro plate shelf capacity, 4 probe configuration, Dual Vacuum Manifold, Fixed or Variable span independent motion

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