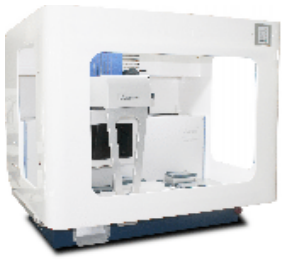
Aurora

ILLUMINATING SOLUTIONS

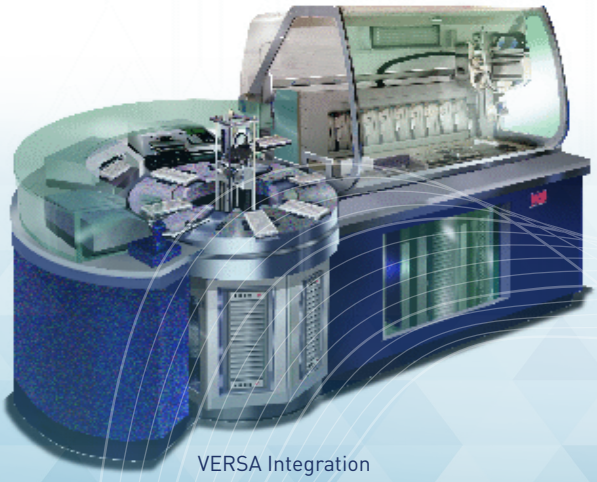
VERSA SERIES

AUTOMATED LIQUID HANDLING WORKSTATION

VERSA 2100



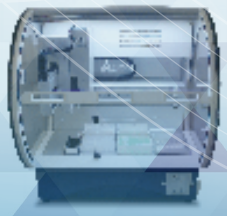
VERSA 1100 96 Channel



VERSA Integration

SOLUTION FOR LIFE SCIENCE & ENVIRONMENTAL SCIENCE

VERSA 1100



VERSA 10

VERSA 110

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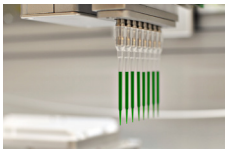
Aurora provides comprehensive lab automation solutions and accompanying reagent kits supporting life science research. The VERSA Series of automated liquid handling workstations facilitate higher sample throughput while improving quality, accuracy and precision. The inherent versatility and flexibility of the liquid handling modules, volume range, deck modules and labware adapters, as well as a wide range of platform sizes ensure that there is a VERSA system suitable for almost every application.

Liquid Handling Modules

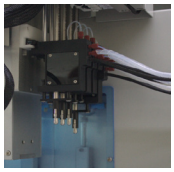
SyringePipettor

Three optional syringe sizes (25 µL, 250 µL or 1000 µL) enables accurate aspiration and dispensing of liquids ranging from 1- 1000 µL (single, 4 channels, 8 channels).

4 Channel SyringePipettor



8 Channel SyringePipettor

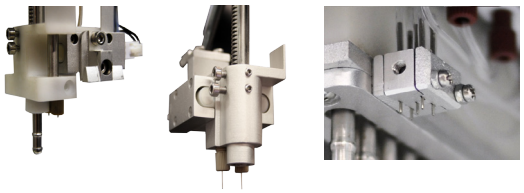


4 Channel Independent SyringePipettor

96 Channel SyringePipettor

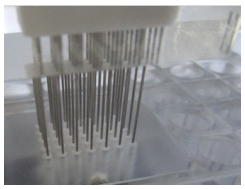
ReagentDrop

The ReagentDrop module delivers fast and reliable bulk dispensing of liquids in the µL to mL range.



2 - 8 Cluster Reagent Drop

NanoPipettor



35-Channel NanoPipettor

The NanoPipettor module dispenses and aspirates nL to µL volumes, and is ideal for generating parallel dilution series and array printing applications.

Customization & Integration

Aurora's liquid handling workstations, liquid handling modules, deck modules and OEM solutions including SyringePipettors, peristaltic pumps and XYZ autosamplers may be customized and/or integrated with your research workflow according to your specifications.

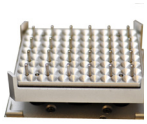
Deck Modules

Modules

To easily automate different applications, the VERSA 1100 workstation can be equipped with a variety of deck modules, including:

Reagent Cooler / Heater Block

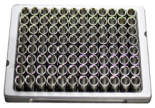
Plate Cooler / Heater Block



Heater-Shaker

Plate Transporter

Magnetic Beads Vortex



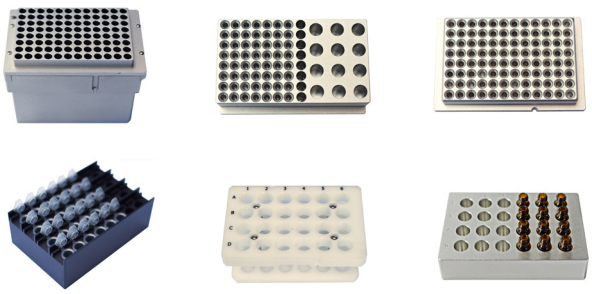
Magnetic Block

96-Channel Aspirator

Plate Gripper

LabWare Adapters

VERSA workstations are compatible with almost any type of labware. Available options include 96 and 384-well plates, PCR tubes and strips, as well as a variety of vials and tubes.

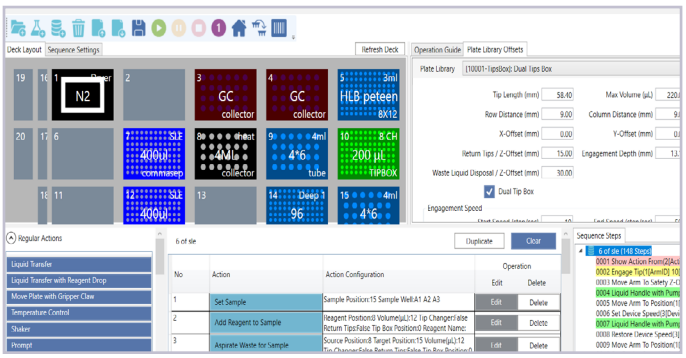


VERSA workstations are compatible with validated automation-style disposable tips, which are available in non-sterile, sterile and sterile-filtered formats and sizes (ie. 10µL, 20µL, 50µL, 100µL, 200µL and 1000µL).

Representative Application Areas

	VERSA10	VERSA110	VERSA1100
Reaction Setup:	•	•	•
PCR	•	•	•
Sequencing	•	•	•
DNA/RNA Restriction	•	•	•
DNA/RNA Digestion	•	•	•
Ligase Reaction	•	•	•
Reverse Transcription	•	•	•
Enzymatic Reactions	•	•	•
Nucleic Acid Purification & Extraction	•	•	•
Next Generation Sequencing Prep		•	•
ELISA		•	•
Solid Phase Extraction (SPE)		•	•
Liquid-Liquid Extraction (LLE)		•	•
Solid Phase Reversible Immunobilization		•	•
Post PCR purification	•	•	•
Cell Based Assays		•	•
Microarray Printing and Spot Printing		•	•
Peptide Synthesis		•	•
Crystallization		•	•
Vial Filling		•	•
Gellified Medium Dispensing		•	•
Plate Reformatting	•	•	•
Cherry/Hit Picking	•	•	•
Serial Dilution	•	•	•
Compound Dilution	•	•	•
Plate Replication	•	•	•
Sample Concentration Normalization	•	•	•

Software & Deck



Various tabs within the VERSAware software window enhance the underlying versatility of the workstation by allowing the user to perform diverse liquid handling functions. Customized methodologies are easy to create, save, edit, rearrange and load into the library of stored protocols using import and export functions within the software. In addition, general liquid handling protocols including reagent addition, dilution, plate reformatting and cherry picking are also available. These features allow complete customization of protocols and push-button operation.

VERSA Series

General Specifications

	VERSA10	VERSA110	VERSA1100	VERSA2000
Deck Capacity	6	8	15	28
Number of ARms	1	1	1	2
Channels/Arm	8+1	1	8+1	8+1
Weight (kg) without hood	31	70	150	180
Weight (kg) with hood	41	80	190	220
Dimensions (L x W x H)	57 x 45 x 54	60 x 60 x 45	93 x 62 x 62	120 x 84 x 85
Communication	USB	USB	USB	USB

Technical Specifications

	VERSA10	VERSA110	VERSA1100	VERSA2000
Liquid Displacement Technology		•	•	•
Air Displacement Technology	•		•	•
ReagentDrop (dispensing only)	•	•	•	•
SyringePipettor (fixed tips)	•	•	•	•
SyringePipettor (disposable tips)	•	•	•	•
Nanopipettor	•	•	•	•
Precision (CV)	1µL < 6%	2µL < 4%	50µL < 0.5%	1000 µL < 0.2%
Accuracy	±8%	±6%	±1%	±0.5%
	*Results obtained using SyringePipettor to dispense deionized water under optimized conditions			
Syringe Sizes	250 or 1000 µL	25 & 250 or 1000 µL	250 or 1000 µL	250 or 1000 µL
Disposable Tip Sizes	20, 50, 200 or 1000 µL automation certified disposable tips			
Total Volume Range	1 - 1000 µL			
Plate Transporter		•		
96 Channel Aspirator		•	•	•
Liquid-Level Sensing	•	•	•	•
Plate Gripper			•	•
Reagent Cooler Block	•	•	•	•
Plate Shaker / Bead Mixer	•	•	•	•
Plate Shaker with Heater	•	•	•	•
Plate Heater / Cooler Block	•	•	•	•
Magnetic Block (moveable)	•	•	•	•
Positive Pressure Port (SPE)		•	•	•
Vacuum Manifold (Negative Pressure)	•	•	•	•
Nitrogen Manifold		•	•	•
HEPA / UV / Fluorescent Light Enclosure	•	•	•	•

The VERSA Series of workstations is customizable to support a wide variety of requirements & applications. Options include, but are not limited to: larger deck sizes, multiple pipetting heads and arms, below deck access to plates and samples, integration of refrigeration and/or freezer units, qPCR instrumentation, plate readers, barcode readers, plate sealers, and DNA/RNA quantifiers, as well as a variety of other integration options.

NOTE: Instrument specifications may change without notice in an ongoing effort of product improvement.