

Fontus liquid handling workstation specification sheet.

Description

The Fontus™ liquid handling workstation is a next generation liquid handler which combines the best technology from our existing platforms and incorporates numerous improvements to make your workflows easier and faster while delivering better results.

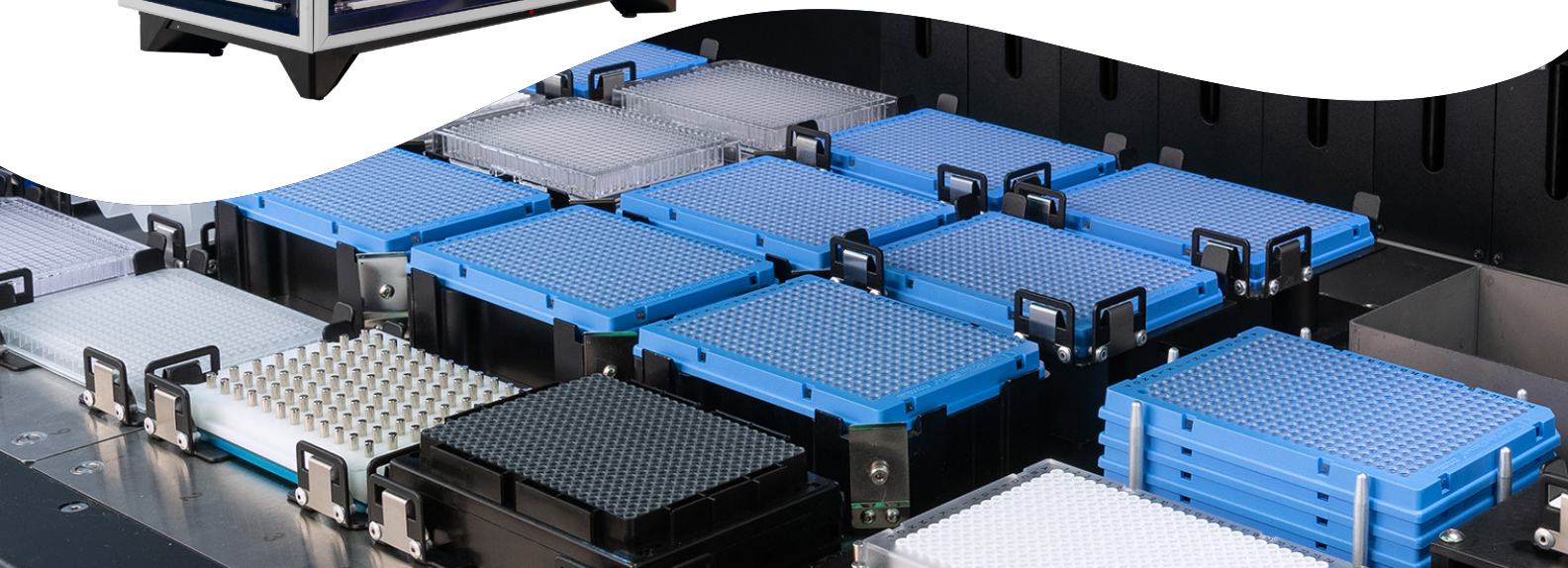
Fontus automated workstations offer both real-time adaptability and future-proof features for enhancing throughput, capacity, and dynamic volume range from 0.5µL to 5000µL. These workstations ensure consistent and reproducible sample preparation, and they come equipped with a choice of pipetting heads, gripper options, and application accessories for comprehensive, walkaway automation. The WinPREP™ software, featuring an intuitive Application Assistant interface, simplifies application programming with a “drag-and-drop” approach, eliminating complexity.

The Fontus instrument family comprises two platforms: the Standard and the Expanded. These platforms offer unmatched flexibility, enabling you to tailor them precisely to your specific application and deck capacity needs. Furthermore, Fontus NGS automated liquid handling workstations are specially designed to optimize your NGS library preparation process.

Fontus liquid handling workstation



For research use only. Not for use in diagnostic procedures.



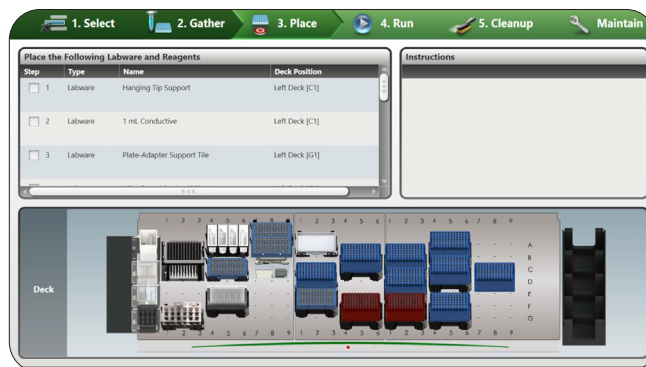
Product features

- Fontus platform design allows users to add up to two (2) pipetting arms: Varispan 8-tip arm plus 96- or 384-channel main array arm.
- Varispan™ 8-tip arm provides independent motion and liquid level sensing in Z direction to access test tubes, microplates, deep well plates, and vials. Sampling probes offer variable spacing from 9 mm to 40 mm.
- VersaTip™ provides a unique sampling tip design to deliver the benefits of both a fixed washable tip and disposable tip adapter.
- Accusense™ our patented independent liquid level sensing technology efficiently monitors your sample volumes, with the ability to detect samples as low as 50 µL in microplates and 100 µL in test tubes. Low or non-ionic polar solutions and organic solvents such as DMSO or methanol are also detectable.
- Carry-over elimination via a peristaltic pump for high volume/high throughput sample tip washing for carry-over to less than 1:1,000,000 with appropriate washing or use of disposable tips for improved elimination of carry-over.
- Main array gripper can automate plate or tip box movement and access off-deck plates or tip boxes without the need for an additional robotic arm.

Software features

- WinPREP™ software with Application Assistant features an intuitive user interface and simplified protocol set-up to support users of all levels.
- Robust software allows users to easily monitor research protocols, track sample preparation processing and integrate ancillary devices for fully automated application solutions.
- Predefined labware definitions simplify assay set-up and enable labware definitions to remain independent of the position on the instrument.
- Performance file library offers optimized pipetting performance and ability to modify pump speeds, air gaps, waste and blowout volumes, and liquid delays.

- Maintenance and clean-up prompts ensure top performance from your instrument.
- The comprehensive software provides real-time status updates to the user and error recovery to ensure sample preservation and data integrity.
- 21 CFR Part 11 Software Compatible.
- Microsoft Windows® 10 64-bit operating system compatibility



Varispan arm

- Tip Types: Fixed and VersaTip.
- Volume range: 0.5 µL to 5000 µL.
- Disposable Tips: 20 µL, 25 µL, 50 µL, 175 µL, 200 µL, 900µL, 1000 µL and 5000 µL tips. Various tips are available in liquid sensing (conductive), non-sensing (non-conductive), with or without filter, hanging or boxed, and sterile formats.
- Syringe options: 250 µL, 500 µL, 1000 µL ,2500 µL and 5000 µL.

Main array arm

- Head types: 96-channel, 384-channel
- Volume range: 1- 200 µL for 96-channel; 0.5 - 25 µL for 384-channel
- Disposable Tips: 18 µL, 25 µL, 35 µL, 50 µL, 80 µL, 100 µL, 150 µL and 200 µL tips. Various tips are available with or without filter and sterile formats.

Pipetting specifications

Varispan	Volume	Performance
20 µL disposable tip	1 µL	CV < 4% Distilled water, 500 µL syringe
20 µL disposable tip	5 µL	CV < 2% Distilled water, 500 µL syringe
Fixed tip	50 µL	CV < 1% Distilled water, 500 µL syringe
Main Array	Volume Range	Performance
96 Channel Pipetting Head	1-200 µL	1-5 µL: CV < 5% 5-200 µL: CV < 2%
384 Channel Pipetting Head	0.5-25 µL	0.5-2 µL: CV < 8% 2-25 µL: CV < 5%

Deck capacity

Standard Platform	Expanded Platform
28 on deck + 4 off deck for Varispan and + 4 off deck for Main Array Arm	36 on deck + 4 off deck for Varispan + 4 off deck for Main Array Arm

Dimensions and weights (approximate)

Standard Platform LH	Expanded Platform LH
Net instrument weight: 425 lbs (193 kg)	Net instrument weight: 475 lbs (215 kg)
Shipping Weight: instrument crate 800 lbs + accessories 280lb*	Shipping Weight: instrument crate 930 lbs + accessories 280lb*
Depth: 33 inch (838 mm)	Depth: 33 inch (838 mm)
Width: 54 inch (1372 mm)	Width: 68 inch (1727 mm)
Height with the front door fully closed: 43 inch (1092 mm)	Height with the front door fully closed: 43 inch (1092 mm)
Height with the front door fully open: 58 inch (1473 mm)	Height with the front door fully open: 58 inch (1473 mm)

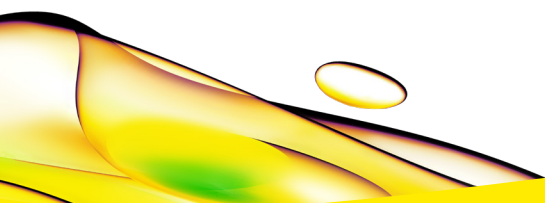
*Accessory crate weight will vary due to the additional accessories in the same sales order

Electrical requirements

- 100-230 VAC, 50/60 Hz, 525 VA
- Certifications CE, CSA, IVD

Environmental requirements

- Operating ambient temperature: 59-95 °F (15-35 °C)
- Operating relative humidity: 15%-85% at 85 °F (30 °C) non-condensing
- Recommended compressor air requirement for Main Array Arm: 65 psi (4.5 bar)



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