

# Agilent Bravo Automated Liquid Handling Platform



## Introduction

The Agilent Bravo automated liquid handling platform provides precision, unparalleled versatility, and speed in a compact footprint. With more than 60 accessories ranging from heater/cooler to shaker, the system can be tailored to automate most sample preparation protocols. The unique, open design of the Bravo platform permits simple integration with other devices for increased throughput when used with robots or the Agilent BenchCel microplate handler. The Bravo platform's compact nine-plate-position footprint facilitates biohood placement, enabling liquid transfers for cell-based assays or hazardous reagents. The infrared-based LED safety light curtain is provided as standard with all standalone Bravo instruments.

The Bravo platform is powered by the proven Agilent VWorks automation control software. This software features dynamic scheduling, an easy-to-use interface, and innovative error recover technology for instrument control that is adaptable to all levels of operators.

## Key features

- Compact footprint minimizes space requirements
- Microplate-centric, low-volume single-well column, row, array, and full-plate transfers support automated hit picking and serial dilutions
- High-precision, rapid-swap pipette heads match liquid handling performance to the application
- Nine pipettable deck positions provide locations for tips, plates, accessories, waste, reagents, and wash stations
- Optional plate gripper relocates labware, removes lids, stacks tips and plates, automates vacuum filtration, and facilitates integration with automation-friendly devices
- The optional on-deck thermal cycler minimizes hands-on time, drives productivity with more efficient workflows, and improves ease of use

## Instrument specifications

Dimensions With Safety Light Curtains <sup>1,2,3</sup>		
Model	Bravo	Bravo SRT <sup>4</sup>
Width	67.1 cm (26.40 in)	67.1 cm (26.40 in)
Depth	48.3 cm (19.00 in)	48.3 cm (19.00 in)
Height	69.7 cm (27.4 in)	62.1 (24.46 in)
Weight With Safety Light Curtains <sup>5</sup>		
kg/lb	66.4 kg (146.4 lb)	64.8 (142.9 lb)
Pipetting Specifications		
Range	0.3 to 250 µL disposable tip (using multiple heads)	
Regulatory Compliance		
Certification	CE certified	
Control		
Software	Agilent VWorks automation control software instrument license	
Controller	Microsoft Windows 7 and 10 compatible	
Interface	10Base-T Ethernet port, RS-232 serial	
Deck Capacity		
Pipettable Positions	Up to nine platepads	
Operating Data		
Power Consumption Operating (Typical)	11.5 A/120 V, 6 A/240 V	
Energy Usage per Hour (Continuous Use)	720,000 J (683 BTU)	

<sup>1</sup> Shipping crate dimensions are approximately 1010 x 870 x 674 mm (40 x 34 x 27 inches).

<sup>2</sup> Dimensions for containment-based applications not requiring the safety light curtain:

Bravo W 64.8 cm (25.5 in) x D 43.8 cm (17.25 in) x H 69.7 cm (27.4 in).

Bravo SRT W 64.8 cm (25.5 in) x D 43.8 cm (17.25 in) x H 61.7 cm (24.3 in).

<sup>3</sup> Agilent can assist with the evaluation of a biohood to ensure the instrument and safety solution mechanically fit.

Airflow integrity and biosafety should be confirmed by the customer, their safety team, or the hood manufacturer.

<sup>4</sup> The Bravo platform SRT version is 8 cm (3 in) shorter for biosafety cabinet-based applications. Inquire regarding accessory and labware compatibility.

<sup>5</sup> The Bravo light curtain itself weighs 14.3 kg (31.5 lb); the Bravo SRT light curtain itself weighs 13.3 kg (29.3 lb).

## Accessories

### Bravo Liquid Handling Heads

- 96LT disposable tip, 2.0 to 250 µL
- 96ST disposable tip, 0.3 to 70 µL
- 384ST disposable tip, 0.3 to 70 µL
- 96AM microchromatography

A wide range of accessories are available for use with the Bravo platform to automate many common analytical laboratory applications. See the Agilent Bravo automated liquid handling platform accessories catalog, publication [5991-0369EN](#), for more information.

## Consumables

Bravo Disposable Pipette Tips			
Description	Volume Range	Description	Volume Range
10 µL 96ST/384ST head	0.3 to 10 µL	70 µL 96ST/384ST head	0.75 to 70 µL
30 µL 96ST/384ST head	0.5 to 30 µL	250 µL 96LT head	2.0 to 250 µL

Use Agilent-certified pipette tips together with the Bravo platform for optimal performance. See the Agilent pipette tips brochure, publication [5991-0453EN](#), for complete descriptions and ordering information.

Learn more:

[www.agilent.com/chem/bravo](http://www.agilent.com/chem/bravo)

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DE15176324

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Printed in the USA, February 3, 2023  
5990-3480EN

