

Agility® Technical Specifications



Physical Specifications

Dimensions	Metric	Non-Metric
Width	1194 mm	47 in
Depth	768 mm	30.25 in
Height	1194 mm	47 in
Footprint	1.16 sq m	12.5 sq ft
Bench Weight	254 kg (max)	560 lbs (max)
Ship Weight	295 kg (max)	650 lbs (max)
Noise Output	< 70 dB	

Power Supply Requirements

Voltage	100 – 240 V automatic conversion
Frequency	50/60 Hz
Power Consumption	Typically 400 VA (online UPS required)

System Specifications

Number of Plates	12 (additional continuous load capability)
Sample Capacity	200 (additional continuous load capability)
Continuous Sample Loading	Yes
Sample Tube Size	10 – 17 mm diameter / 45 – 100 mm height
Number of Reagents	Up to 12 SmartKit® reagent packs simultaneously (additional packs can be added using continuous load capability)
Number of Standard/Control Bottles	Included in each SmartKit® reagent pack
Assays per Plate	Up to 4
Dilution Wells Capacity	Up to 384 deep-well strips (48 x 8)
Sample Tip Capacity	Up to 2,240 tips (20 x 112 with additional continuous load capability)
Reagent Tip Capacity	Up to 98 tips (additional continuous load capability)

Reader Specifications

Photometric Range	0.000 – 3.500 OD
Spectral Range	405 – 690 nm
Filter Slots	6 wavelength
Precision	± 0.01 OD at 0.000 - 0.500 OD < 1% CV (< 2.0 OD) < 1.5% CV (2.0 – 2.5 OD)
Accuracy	± 0.01 OD or 2.5% (0.000 – 3.000 OD) whichever is greater
Read Time	< 30 sec (single wavelength) < 50 sec (dual wavelength)

Washer Specifications

Manifold Configuration	8-channel wash head
Programmable Volumes	50 – 999 µL
Wash Buffer Capacity	5 wash bottles at 3.0 L, with level-sensing
Residual Wash Volume	< 3 µL per well with dual-axis sweep in a flat-bottom plate
Dispense Precision	≤ 5% CV (with 300 µL in a 96 well plate)
Waste Container Capacity	10 L, with level-sensing

Incubator Specifications

Number of Incubators	12 (6 ambient, 6 elevated)
Temperature Range	RT + 4° – 45°C (elevated incubator) RT + 4°C (ambient incubator)
Temperature Accuracy	± 1°C
Shaking	14 Hz (periodic or continuous)
Temperature Monitoring	Yes

Reagent Pipetting Specifications

Reagent Tip Size	1,200 µL
Reagent Pipetting Volume	20 – 1,000 µL
Reagent Pipetting Precision	≤ 3% CV at 10 shots at any volume in operating range
Reagent Pipetting Accuracy	± 2% of target volume (single-shot mode)

Sample Pipetting Specifications

Sample Tip Size	300 µL
Sample Pipetting Volume	10 – 300 µL
Sample Pipetting Precision	≤ 3% CV at any operating volume above 10 µL
Sample Pipetting Accuracy	± 2% of target volume
Time to Dispense	11 minutes (typical) 50 µL of 96 samples to plate from sample tubes or deep-well plates
Dilution Range	1 part in 199 one-stage dilution 1 part in 39,601 two-stage dilution

Process Security

Liquid Level Sensing	Yes (reagents, controls and samples)
Level Sensor System	Pressure differential
Clot Detection	Yes
Dispense Anomaly Detection	Yes
Tip Detection	Yes
Electronic Signature Pipetting	Yes
Alarms	Yes

Software

Controlling Software	Agility® Software
Work Protocols (Assays)	Unlimited
Data Processing	Quantitative and qualitative
Levey-Jennings	Yes
Westgard Rules	Yes
Process Reporting	Event log + error log
Automatic Error Recovery	Yes
Password Access Control	Yes

Attributes and specifications subject to change without notice.

Have questions? Contact us today!

CORPORATE HEADQUARTERS

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Refer to User Manual for full explanation of instrument operations and maintenance.

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