

# Infinium® Assay Automation Specifications

Feature	Description
Automation Option Packages	Infinium Automation Kit 8-Tip Tecan Laboratory Information Management System (LIMS) Ready (RoMa configuration): SC-30-403 (110V); SC-30-404 (220V) Infinium Automation Kit 8-Tip Tecan Non-LIMS (Liquid LiHa configuration): SC-30-401 (110V); SC-30-402 (220V)
Liquid Handling Automation	Tecan Freedom EVO 150, Liquid Handling Arm (optional Robotic Manipulator Arm) with low-volume system tubing
Robotic Arm Options	Robotic Manipulator Arm (RoMa): Transports labware or disposable tips Required for Illumina LIMS integration Catalog No. SC-30-403 (110 V); SC-30-404 (220 V) Liquid Displacement Liquid Handling Arm (Liquid LiHa): 8 pipetting channels Independent Z movement Y-tip spacing on 4- and 8-tip arm, automatically 9–38 mm between tips
Volume Range <sup>a</sup>	500 nl – 5000 µl
Precision of Movement	Liquid LiHa: +/- 0.4 mm on X, Y, and Z axes RoMa: +/- 0.4 mm on X axis, +/- 0.5 mm on Y axis, +/- 0.3 mm on Z axis
Bench Footprint	EVO 150 Dimensions (W x H x D): 1450 mm x 870 mm x 780 mm (57" x 34.3" x 30.7") Weight: 130 kg (286 lbs)
Power Requirements	Power: 1200 volt-ampere (VA) Voltage: 100–120 and 220–240 volts alternating current (VAC) (-15%/+10%) Frequency: 50/60 Hz
Operating Conditions	Temperature: 15–32°C / 59–90°F Humidity: Noncondensing 30–80% relative humidity at 30°C / 86°F or below
Pipetting Conditions	Temperature: 20–27°C / 68–80.6°F Humidity: Noncondensing 30–60% relative humidity at 30°C / 86°F or below
General Liquid Handling Conditions	Single pipetting mode, tap water with a conductivity of 0.3–1 mS/cm, 8 channels, 12 replicates
Pipetting Performance <sup>b</sup> (Precision, CV): Typical Results <sup>c</sup>	Standard washable fixed tips: 10 µl < 2.5% Standard washable fixed tips: 100 µl < 0.5%
Pipetting Performance <sup>b</sup> (Precision, CV): Manufacturer's Field Guarantee <sup>d</sup>	Standard washable fixed tips: 10 µl < 3.5% Standard washable fixed tips: 100 µl < 0.75%
Modifications Specific to Illumina	Teflon-coated stainless steel fixed tips Microtiter Plate (MTP) carriers Instrument control computer with Illumina Automation Control
Illumina Automation Control Software	Required for integration with Illumina LIMS <sup>e</sup> Designed for accurate low volume liquid dispensing (+/- 5% coefficient of variation (CV) at 5 µl) Liquid handling software control designed and tested for pre- and post-PCR Infinium workflows User authentication (LIMS mode)
LIMS-supported Assay Protocol	Infinium assay
Fully Integrated LIMS Option	Option to fully integrate with Illumina LIMS to provide positive sample tracking for processing the Infinium Assay <sup>e</sup>
Workflow Enforcement	Provided with LIMS options
GenomeStudio® GT Integration	Illumina LIMS Infinium
Automation Integration	LIMS-ready automation <sup>e</sup> Robot supported
Web Interface and Project Management	Fully supported
Installation	Comprehensive onsite installation by Illumina field service engineers (FSEs)
Training	System and application training provided by Illumina
Warranty	Comprehensive one-year warranty through Tecan <sup>f</sup>
Technical Support	Illumina technical support is available 24 hours a day, Monday through Friday

a. Manufacturer's guaranteed typically achievable results using water in single pipetting mode under optimal conditions.  
b. Free dispense, 1000 µl syringe, gravimetric method.  
c. Worst value of at least three tested instruments in production.  
d. Values tested at instrument qualification (IQ)/operational qualification (OQ) in the field to show that the instrument is within specifications.  
e. LIMS integration requires LIMS Ready RoMa arm configuration; Catalog No. SC-30-403 (110V) / SC-30-404 (220 V).  
f. Illumina technical support is the first responder for troubleshooting. Tecan is the secondary responder if problem is not resolved.

Illumina, Inc. • 1.800.809.4566 toll-free (US) • +1.858.202.4566 tel • techsupport@illumina.com • www.illumina.com

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