

Specifications POD™ automation platform

System Specifications

Electrical: 208V/240V ±10%, 4-wire, 50/60 Hz, 30A

Air: Filtered, oil-free, dry air, 552 kPa (80 PSI) minimum, 1034 kPa (150 PSI) maximum

Dimensions: 1855 mm width x 1113 mm depth x 2274 mm height (73.0 x 43.8 x 89.5 inches)

Weight: Approximately 910 kg (2000 lbs), from 865 kg to 1000 kg (1900 to 2200 lbs) depending upon components

Labware Compatibility: All Echo® Qualified microplates and most ANSI-compliant/SBS standard microplates following (96,384,1536)

Operating Environment: 21°C ± 5°C (70°F ± 9°F), 10%–80% relative humidity, non-condensing

Application Software: POD system software and compatible Echo® software applications

Operating Software: Microsoft Windows XP Professional

Included Components

Vacuum: Vacuum system supplies 68 kPa (20 inches Hg) minimum, 2.5 CFM

Computer: Pentium 4, 3GHz, 1GB RAM, 19" monitor, keyboard, optical mouse

Environmental Control: HEPA filtered air intake with 360 CFM flow rate, ambient temperature

Echo Insert Station: Holds up to 3 Labcyte source plate inserts (included)

5-Shelf De-lidder: Vacuum based removal - compatible with Labcyte MicroClime™ lids and most microplate lids

8-Shelf Temporary Storage: Holds all Echo Qualified microplates and most ANSI-compliant/SBS standard microplates following (96, 384,1536)

Plate Storage: Random access carousel stores up to 189 microplates

Plate Storage Barcode Reader: High-resolution single scan, 650nm wavelength, 32 characters maximum

Compatible Barcode Formats: CODE39, ITF, INTER-LEAVED 2-of-5, COOP 2-of-5, Codabar, CODE 128, EAN-128, CODE 93, EAN/UPC (A*E)

Integrated Devices

Bulk Filler

- Range: 50 nL to 50,000 nL
- Resolution: 1 nL
- Fill Accuracy: +/- 2%
- Fill Precision: <7% CV at 50 nL, <5% at 500 nL, <3% above 1000 nL
- Fluids: One to four different fluids

Microplate Centrifuge

- Top Speed/G-Force: 3000 RPM/1000 G
- Maximum Payload (per bucket): 250 g
- Accel/Decel: Approximately 7.5 seconds 0-3000 RPM
- Maximum Imbalance: 10 g
- Capacity: Two microplate positions

Thermal Microplate Sealer

- Sealing Temperature: 30 to 200 °C
- Microplate Material Types: Seals are compatible with polycarbonate, polyethylene, polypropylene, polystyrene and cyclic olefin copolymer (COC) plates
- Seal Materials: approved aluminum and clear sealing film

Echo® Liquid Handling Platform

- Compatibility: All Echo liquid handlers
- Volume per transfer: 2.5 nL
- Volume Transfer Range: 2.5 to 10,000 nL (source plate specific) higher volume transfers with extended transfer time
- Transfer Accuracy: <10% deviation from target volume
- Transfer Precision: <8% CV

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