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

**Integrated Devices**

**Bulk Filler**
- Range: 50 nL to 50,000 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

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, INTERLEAVED 2-of-5, COOP 2-of-5, Codabar, CODE 128, EAN-128, CODE 93, EAN/UPC (A*E)

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