System Specifications

Electrical: 120V, 25A or 240V, 15A ±10%, 50/60 Hz

Air: Filtered, oil-free, dry air, 552 kPa (80 PSI) minimum, 1034 kPa (150 PSI) maximum. 70Lpm at 621 kPa (2.5 cfm at 90 psi)

Vacuum: 78 kPa (23 inches Hg) minimum, 2.5 CFM

Base Dimensions: 1651mm width x 914 mm depth x 1157 mm height (65.0 x 36.0 x 45.5 inches)

Extended Dimensions: 2360 mm width x 914 mm depth x 1157 mm height (84.25 x 36.0 x 45.5 inches)

Weight: Approximately from 68 kg to 102 kg (150 to 225 lbs) depending upon components

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

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

Application Software: Tempo™ automation control and compatible Echo® software applications

Operating Software: Microsoft Windows 7 Professional

System Accessories

Computer: Intel Core2Duo 3GHz, 2GB Ram, 19” monitor, keyboard, optical mouse

Echo Insert Station: Holds up to 2 Labcyte source plate inserts

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

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

Plate Storage: Any combination of up to four 20-microplate random-access racks or 50-microplate sequential-access stacks

Barcode Reading Shelf: High-resolution raster scan, 650nm wavelength, 32 characters maximum


Integrated Devices

Microplate Handling Robot

Drive: 4-axis, servo controlled, absolute encoders

Horizontal Reach: 550 mm

Vertical Reach: 750 mm

Maximum Velocity: 500 mm/sec

Maximum Acceleration: 2500 mm/sec²

Payload: 500 gm

Gripper: Pneumatically actuated

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

Optional Devices*

Agilent PlateLoc thermal microplate sealer

Agilent Microplate Centrifuge

Nexus Xpeel microplate peeler

Labcyte Lxp low volume bulk dispenser

Labcyte GX nanoliter dispenser

Roche LightCycler 480 RT-qPCR thermocycler

Roche LightCycler 1536 RT-qPCR thermocycler

Thermo Labsystems Multidrop Combi nL

Thermo Labsystems Cytomat storage systems

*Contact your Labcyte representative for an updated list of device options.

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