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Access Laboratory Workstation



Combine the revolutionary performance of the Echo Liquid Handler with automated plate handling and integrated devices into a walk-away system tailored for a wide range of applications. Access Laboratory Workstations are modular, flexible solutions that easily scale when needed.

RESOURCES + TOOLS

Access Laboratory Workstation Features

Automated Genomics Platform

Combine the revolutionary performance of the Echo Liquid Handler with automated plate handling and integrated devices to create a walk-away system tailored for a broad range of genomic applications. With use of the Access Workstation, Echo Liquid Handlers can be easily incorporated into an integrated system to automate genomic workflows including, qPCR, PCR, enzyme reactions, DNA/RNA quantification, sample pooling, and normalization.

Assay-Ready Plate Preparation

The Access Laboratory Workstation for Assay-ready Plates incorporates a sealer, peeler, bulk-dispenser, and centrifuge to support walk-away library reformatting, replication, cherry-picking and dose-response. This workstation accommodates all Echo Qualified Plates and most ANSI-compliant/SBS-standard microplates. With random access microplate storage and options for barcode reading, shaking and de-lidding, the Access Laboratory Workstation offers the productivity of a large-scale system in a compact workspace.

Lead-Optimization and Secondary-screening Assays

Option to integrate multi-mode microplate readers and controlled storage systems that address a wide range of biochemical and cell-based assays into a standard Access Laboratory Workstation configuration. This flexibility enables walk-away automation for Cytochrome P450 screening, cell signaling, cell viability, and other types of assays. Storage systems can be configured for cold-dry compound storage, warm humid cell storage, or ambient storage.

High-Throughput Gene Expression Assays

The Access Laboratory Workstation, combined with a one-step qPCR preparation workflow for RT-qPCR can be adapted for high-throughput gene expression screening. With its ability to transfer nanoliter (nL) volumes of samples and reagents accurately and precisely, the Echo Liquid Handler

dramatically reduces screening costs — making one-step RT-qPCR viable as a high-throughput screening method. To maximize efficiency, the Access Laboratory Workstation incorporates two Roche LightCycler systems with the Echo Liquid Handler and other devices for cell-dispensing, washing, centrifugation, and sealing.

Automated Protein Crystallography Setup

The Access laboratory workstation for protein crystallography applications incorporates an adhesive sealer to prevent evaporation and eliminate the risk of heat exposure, which can occur with thermal sealing. Random access to reagent plates enables on-the-fly creation of grid screens from high-concentration stocks.

Analysis Only

A single Access Laboratory Workstation is capable of integrating several detection devices and pooling them to create an automated analysis system that can handle racks of assay plates. Additional accessories, including waste chutes, barcode readers, and lid removal stations can also be integrated into the workstation.

Description	Specifications
Base dimensions	1651mm width x 914 mm depth x 1157 mm height (65 x 36 x 45.5 inches)
Extended dimensions	Approximately 2360 mm width x 914 mm depth x 1157 mm height (84.25 x 36 x 45.5 inches) depending on configuration
Weight	Approximately 68 kg to 102 kg (150 to 225 lbs.) depending upon components
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. 70 Lpm at 621 kPa (2.5 cfm at 90 psi)
Vacuum	78 kPa (23 inches Hg) minimum, 2.5 CFM
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 Software and compatible Echo software applications
Operating software	Microsoft Windows 7 Professional

Access Dual Robot System



The Access Dual Robot System (DRS) is a compact, modular, high-capacity, and high-throughput platform, designed and optimized for the use of Echo Liquid Handlers in sample management workflows. It is the only automation platform on the market compatible with Echo® 650 Series Liquid Handlers, enabling the production of assay-ready plates from acoustic sample tubes. The system combines industry-leading devices and software with ergonomic and environment management options to provide a complete, easy-to-use, store-to-assay sample management solution.

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