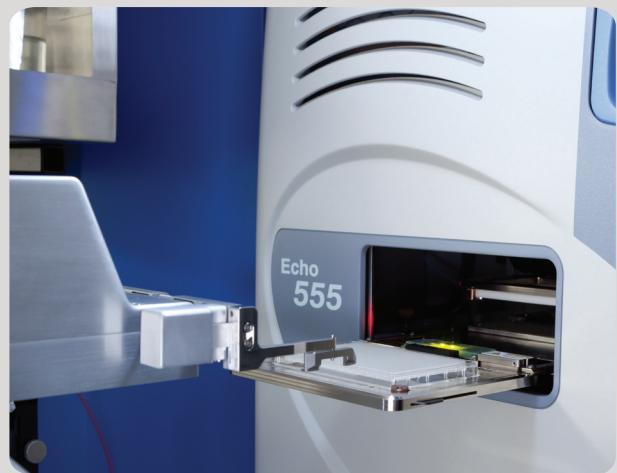




POD™ automation platform



POD automation

A walk-up and walk-away solution for the Echo® liquid handler

As the revolutionary Echo liquid handler drives life science applications to unmatched precision and accuracy, the POD™ automation platform similarly adds automated plate handling with unmatched performance and ease-of-use. In comparison to other integrated systems, the POD system uses the wizard-based Echo® software applications to schedule and control automation events, creating routines optimized for the most efficient use of the Echo platform. Installed within 90 days, the POD system is ready for use immediately after site acceptance. Regardless of their experience with automation, researchers can walk-up and quickly create protocols specific to their application while the POD system manages the rest.

Automation optimized for the Echo liquid handler

- Easily create fully automated workflows driven by the Echo platform
- Maximize the ability of the Echo platform to save cost and time
- Instantly improve liquid handling performance and throughput

High-quality low-volume sample handling

- Quickly prepare plates for chemical or biological assays
- Maintain sample concentration and purity
- Add environmentally controlled storage

Unmatched automation control

- Schedules created automatically without custom programming
- Quickly adapt protocols as requirements change
- Easily communicate with LIMS and databases

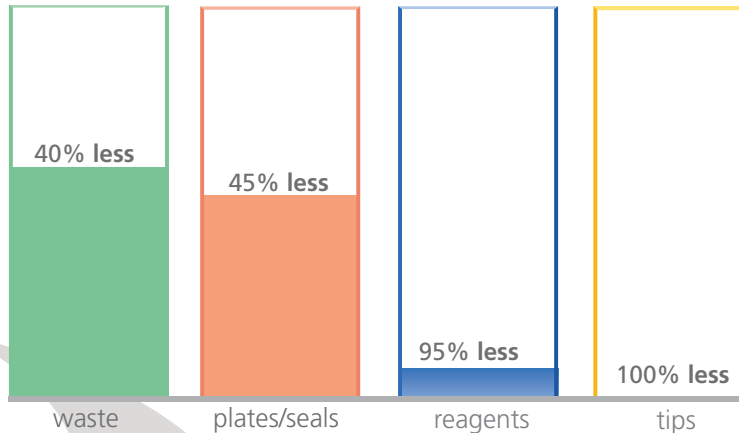
The POD system maximizes the power of the Echo liquid handler to significantly save costs and time



Changing laboratory workflows

The ability of Echo liquid handler to precisely and accurately dispense volumes lower than previously possible has already changed traditional workflows in many laboratories. Since it does not require pipette tips or contact of any kind, which can lead to sample retention and variability, data quality is greatly improved. This leads to tremendous cost savings by eliminating money spent on disposal of pipette tips, tip washing fluids, intermediate plates, and wasted samples. Installed within 90 days followed by a week of site acceptance and training, the POD system is the quickest way to enable the Echo liquid handler to drive fully automated workflows, increasing the savings.

Reduction in sample preparation costs of screening



Estimated reduction of costs compared to tip-based liquid handling when preparing 500,000 samples for 55 screening campaigns using the POD system.

Installed within 90 days, the POD system is the quickest way to implement automated workflows

Inside the POD

Unmatched flexibility and ease-of-use

The POD automation platform is driven by commands directly from the wizard-based Echo software applications. This structure allows researchers to quickly configure application-specific liquid handling routines using graphical interfaces and select key plate handling actions to create a final POD system routine. Changes made in the Echo software applications are automatically recognized and accounted for by the POD system allowing researchers to easily create or adapt protocols on-the-fly. Routines can be added to the POD system scheduler at any time creating a perfect system for walk-up processing.

The POD system comes pre-configured to provide the plate handling actions required to support each Echo software application. Additional options for environmentally controlled storage, plate handling, and database integration provides researchers with the flexibility to tailor the POD system specifically to their application and data management requirements.

Echo Softwares Application Suite

- Reformat and replicate samples to create assay plates
- Graphically design custom layouts for any-well to any-well transfers
- Guided setup of file-driven cherry picking and dose-response analysis

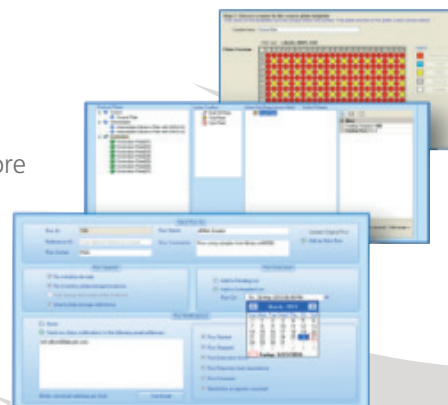
POD System Software

- Automatically generate plate handling routines
- Graphically track and manage system plate inventory
- Easily configure device parameters and output files

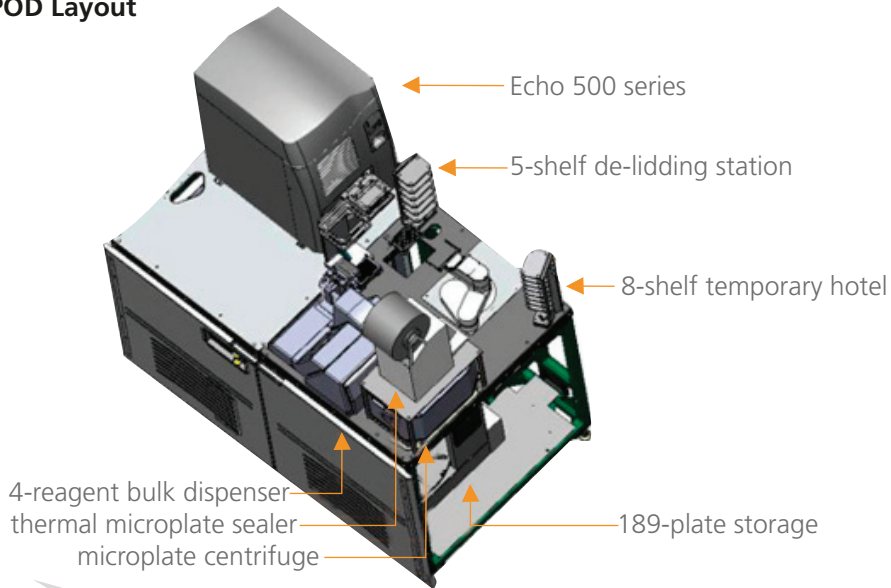
POD System Components

- Preferred devices for sealing, centrifugation, bulk dispensing, and more
- Options for additional environmentally controlled storage
- Easy access to system utilities, reagent bottles, and waste collection
- Docking stations for additional devices

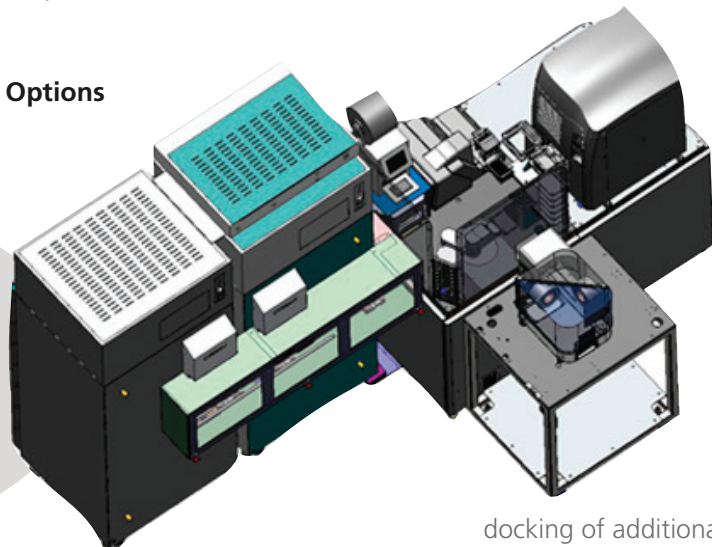
**Simplified software empowers
novice users without compromising
capabilities**



POD Layout



Expansion Options



environmental control of
up to 2016 microplates

docking of additional devices

Simplify your workflow

Operating the POD



- Load source and destination plates into inventory



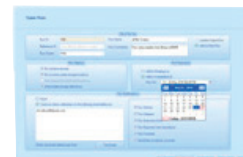
- Select your Echo protocol in the run setup wizard



- Assign plates in the inventory manager



- Add plate handling actions for the run



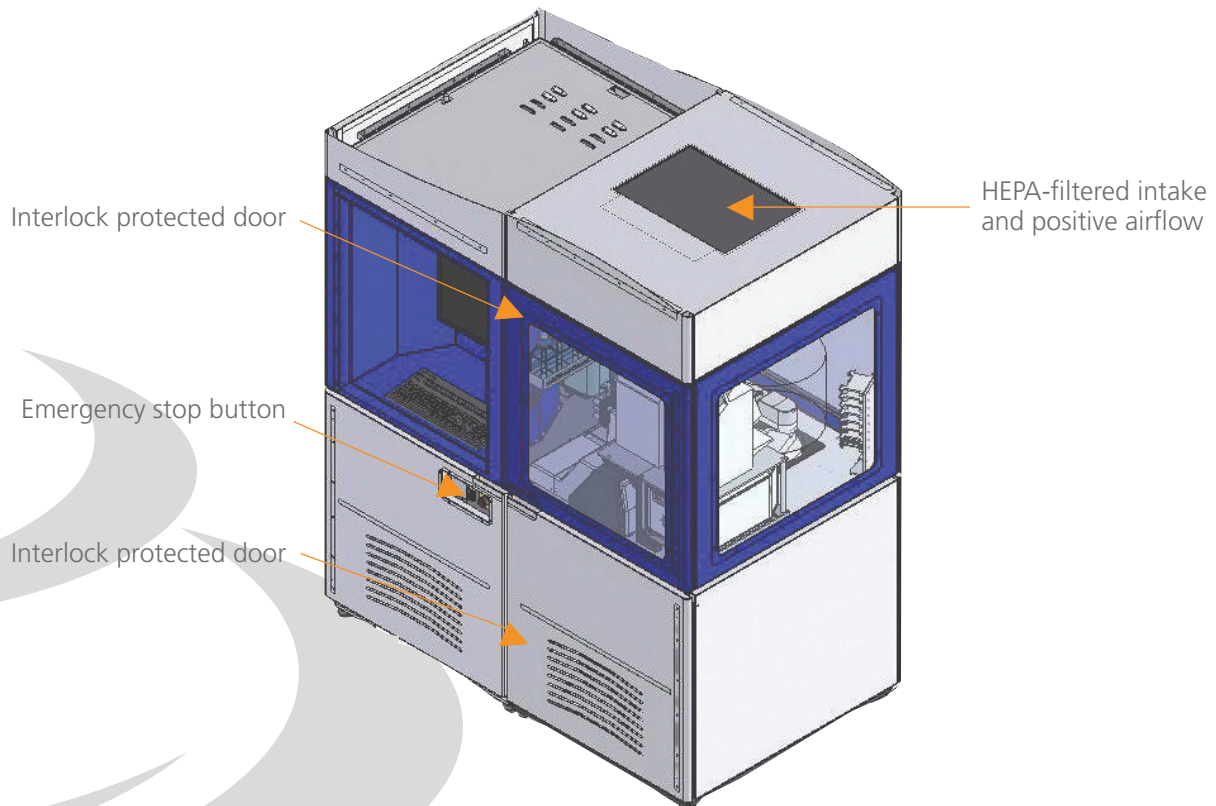
- Add run to the schedule and save

Automation is made easy with the POD system. With just a few steps the system can be setup and scheduled to run multiple protocols with ease.

The POD automation platform is designed to reduce the steps required for the workflow of typical integrated systems. As samples are loaded into the storage devices, barcode labels are scanned and the inventory management software is updated. A setup wizard instructs users to select from a library of protocols created from the Echo. For each plate type the user can set parameters for any applicable pre- and post-run plate handling actions. In the final step, the protocol is added to the POD run schedule and started by priority or a set time.

Safety and protection

The POD automation platform provides protection for your sample inventory as well as for the researchers operating the system. A built-in HEPA-filtered air intake system removes particles while creating a positive airflow through the robot cell. The doors used to access the system devices are protected with interlock mechanisms to pause any system activity when opened. Alternatively, an emergency stop button can be pressed to disable all system devices instantly.



Automation designed for research



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