

ACCESS™ WORKSTATION CONFIGURATION

Access Laboratory Workstation *for*
Cell-based and Biochemical Assays

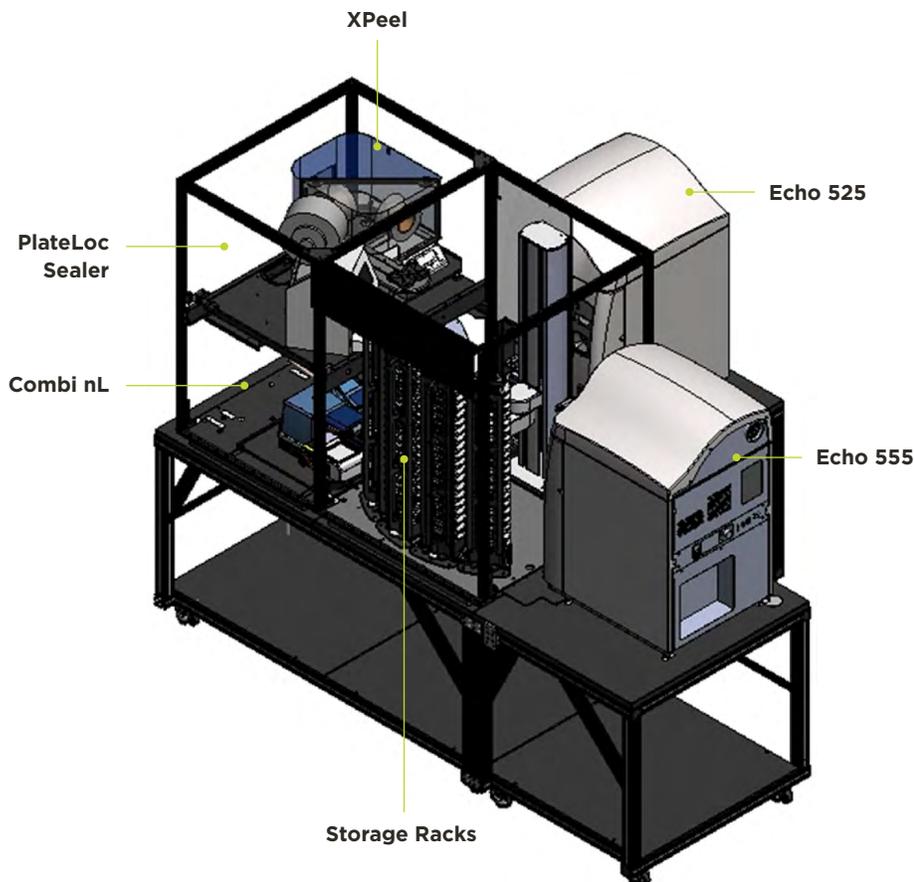


Examples of Access Workstation Configurations for for Cell-based and Biochemical Assays

Echo® Liquid Handlers use acoustic energy to provide high-throughput, non-contact liquid handling for a range of applications. Non-contact transfer avoids the risk of cross-contamination, eliminates tip costs, and facilitates the progression to high density assay formats. Echo Liquid Handlers precisely and accurately transfer 2.5 nL or 25nL droplets of sample, cells, and reagent, enabling the miniaturization of both cell-based and biochemical screens that can reduce operating costs without compromising data quality.

The Access™ Laboratory Workstation combines the revolutionary performance of the Echo Liquid Handler with automated plate handling and integrated devices to create walk-away systems tailored for a range of applications in need of higher throughput. Access systems are modular, flexible solutions that can scale when needed. With use of the Access Workstation, Echo Liquid Handlers can be easily incorporated into an integrated system to automate workflows including, but not limited to, cell dispensing, cell proliferation and viability assays, gene expression assays, potency and efficacy assays, and transfection workflows.

CONFIGURATION A



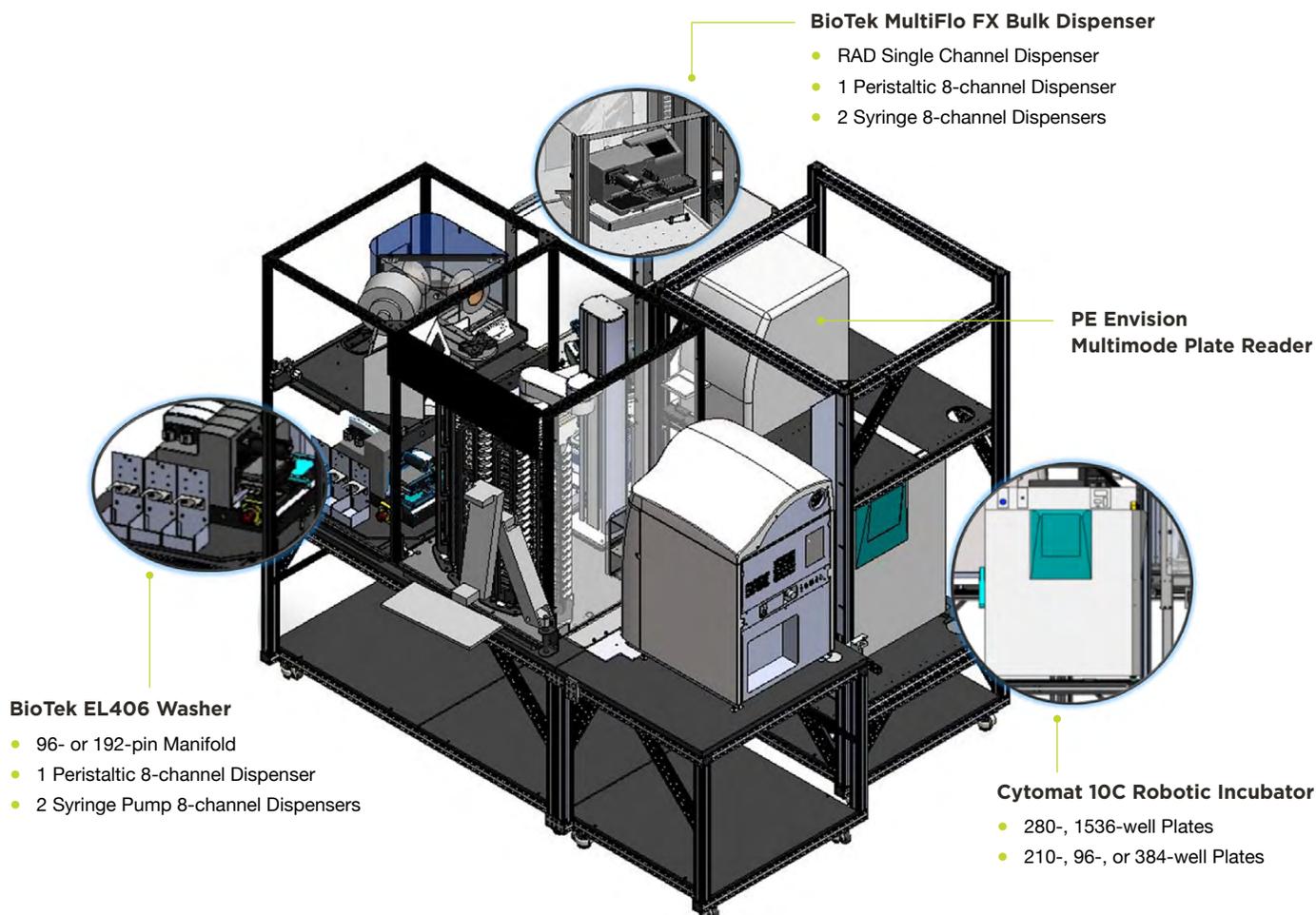
SYSTEM COMPONENTS

- ACC-700 Access Workstation Base System
- ACC-706 2D Barcode Reader
- ACC-708 25-Plate HD Random Access Rack
- ACC-710 20-Plate Random Access Racks
- ACC-711 50-Plate Sequential Stacker
- ACC-712 4-Plate Lid Handling Station
- ACC-714 Base Extension with Shelf
- ACC-715 96" Workstation Table
- ACC-725 Rear Echo Table

SYSTEM DEVICES

- Labcyte Echo 525, 550, or 555 Liquid Handler
- ThermoFisher Multidrop Combi nL
- Agilent Technologies PlateLoc Sealer
- Agilent Technologies Microplate Centrifuge
- Brooks Automation XPeel Peeler

CONFIGURATION B



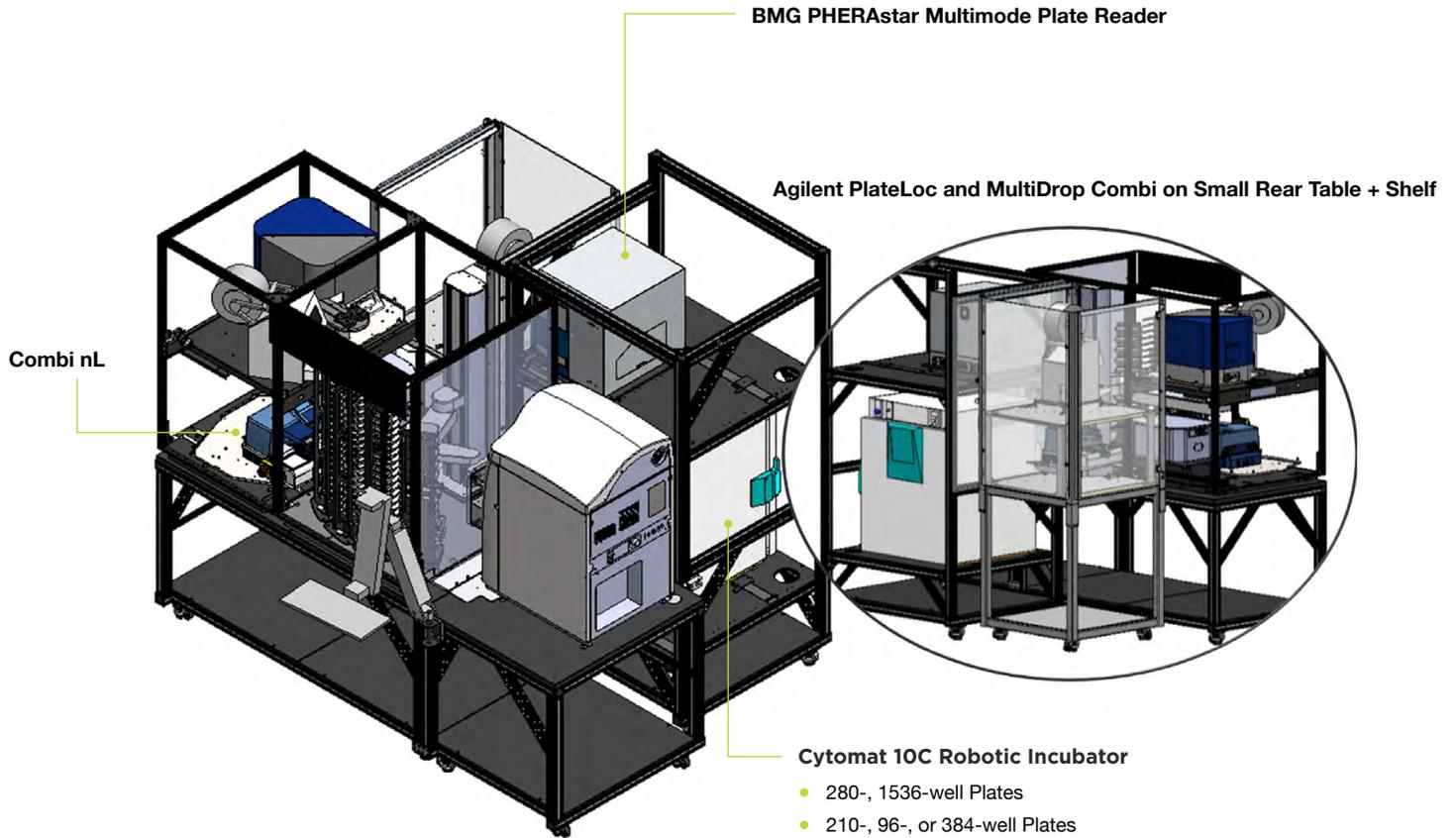
SYSTEM COMPONENTS

- ACC-700 Access Workstation Base System
- ACC-706 2D Barcode Reader
- ACC-708 25-Plate HD Random Access Rack
- ACC-710 20-Plate Random Access Racks
- ACC-711 50-Plate Sequential Stacker
- ACC-712 4-Plate Lid Handling Station
- ACC-714 Base Extension with Shelf
- ACC-715 96" Workstation Table
- ACC-719 Large Rear Table
- ACC-727 Large Rear Table Shelf
- ACC-724 Small Rear Table

SYSTEM DEVICES

- Labcyte Echo 525 or 555 Liquid Handler
- BioTek EL406 Fully-loaded with 96- or 192-pin Manifold
- BioTek MultiFlo FX Full-loaded with RAD Tech
- Inheco Teleshake
- ThermoFisher Multidrop Combi nL
- Agilent Technologies PlateLoc Sealer
- Agilent Technologies Microplate Centrifuge
- Brooks Automation XPeel Peeler
- ThermoFisher Cytomat 10C Series Incubator
- PerkinElmer Envision Multimode Plate Reader

CONFIGURATION C



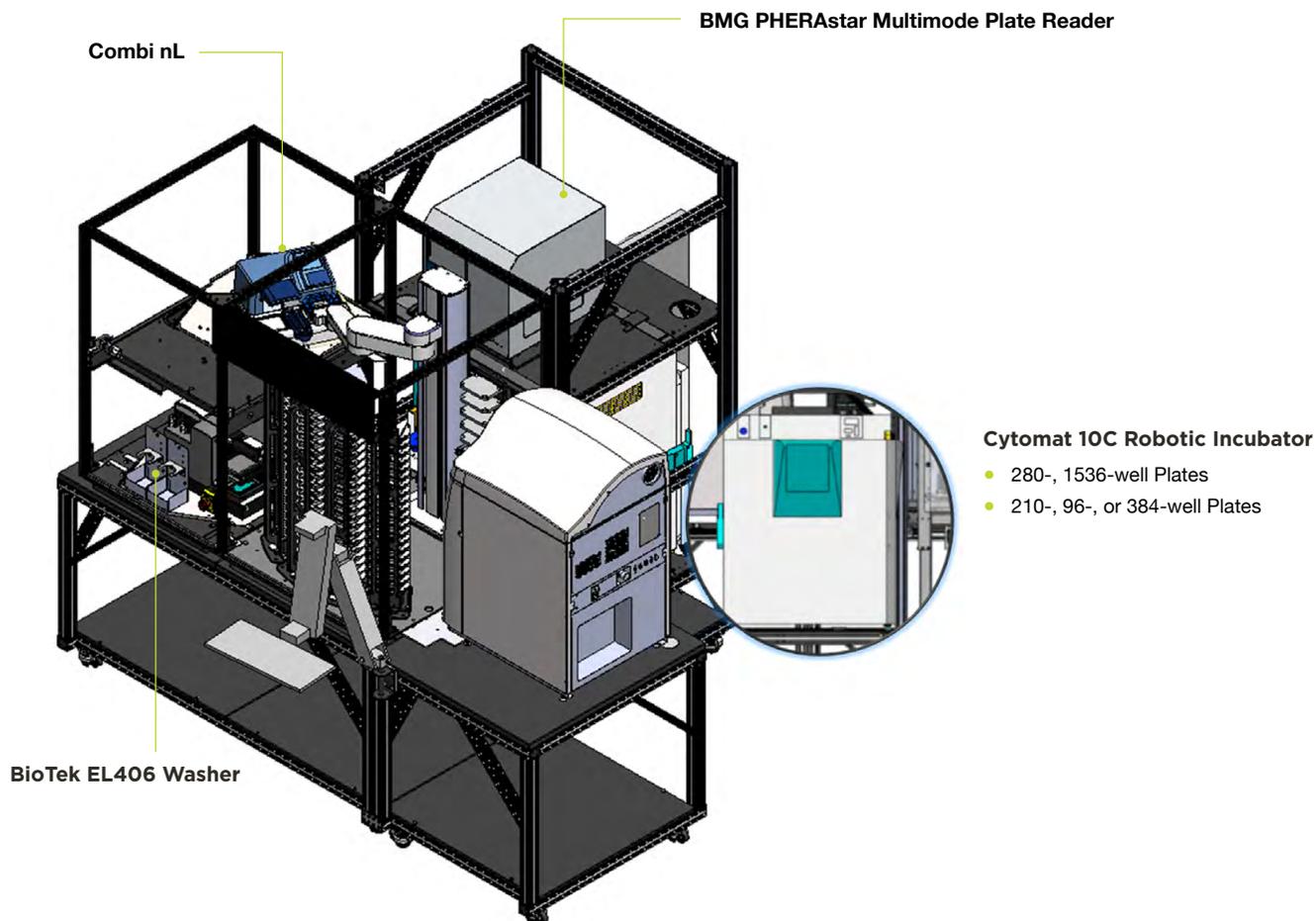
SYSTEM COMPONENTS

- ACC-700 Access Workstation Base System
- ACC-706 2D Barcode Reader
- ACC-708 25-Plate HD Random Access Rack
- ACC-710 20-Plate Random Access Racks
- ACC-711 50-Plate Sequential Stacker
- ACC-712 4-Plate Lid Handling Station
- ACC-714 Base Extension with Shelf
- ACC-715 96" Workstation Table
- ACC-719 Large Rear Table
- ACC-727 Large Rear Table Shelf
- ACC-724 Small Rear Table
- ACC-729 Shelf for Small Rear Table

SYSTEM DEVICES

- Labcyte Echo 525 or 555 Liquid Handler
- BMG PHERAstar FS Plate Reader
- Cytomat 10C Series Incubator
- Inheco Teleshake
- ThermoFisher Multidrop Combi nL (2X)
- Agilent Technologies PlateLoc Sealer (2X)
- Agilent Technologies Microplate Centrifuge
- Brooks Automation XPeel Peeler

CONFIGURATION D



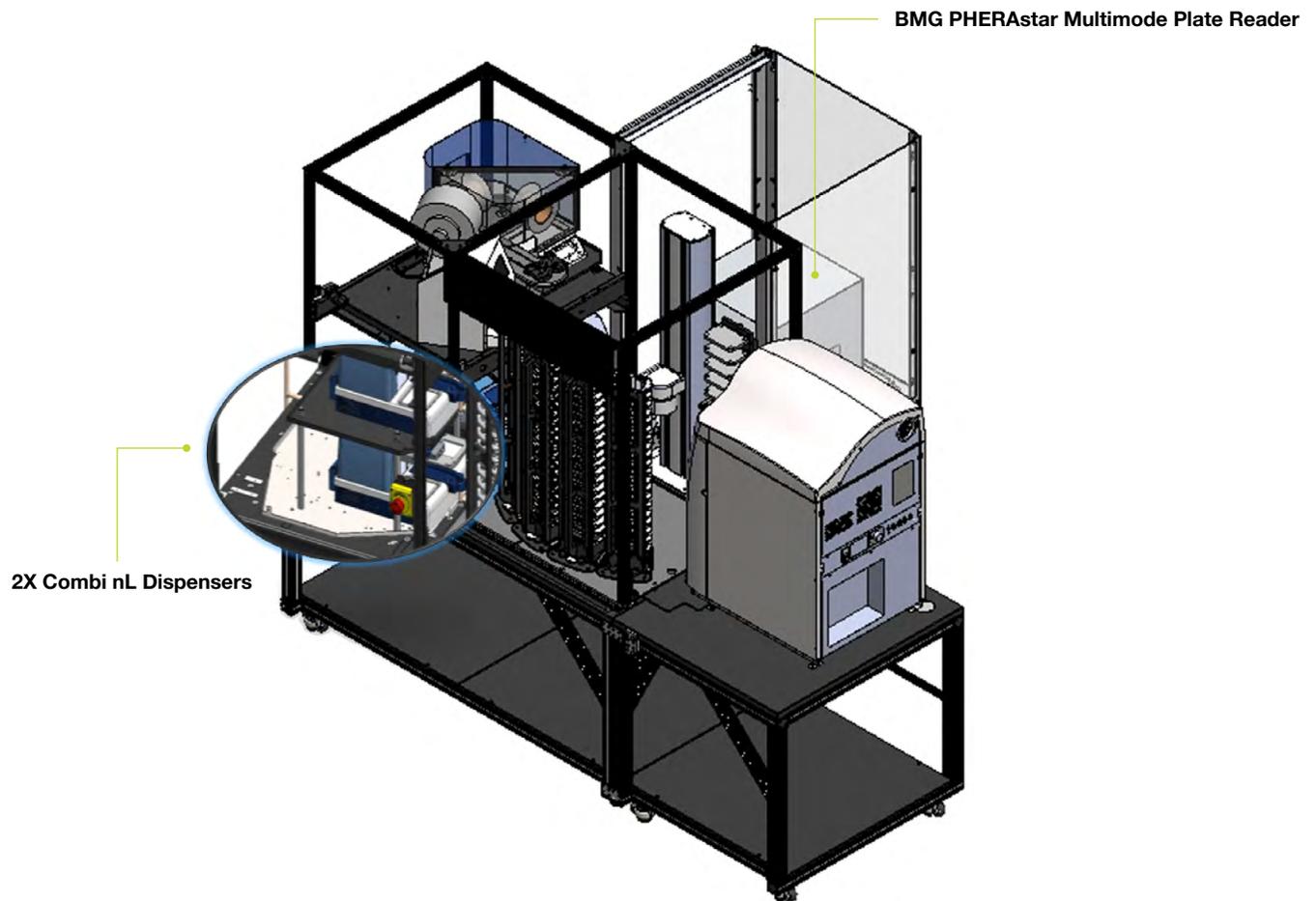
SYSTEM COMPONENTS

- ACC-700 Access Workstation Base System
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- ACC-715 96" Workstation Table
- ACC-719 Large Rear Table
- ACC-727 Large Rear Table Shelf

SYSTEM DEVICES

- Labcyte Echo 525 or 555 Liquid Handler
- BMG PHERAstar FS Plate Reader
- Cytomat 10C Series Incubator
- Inheco Teleshake
- ThermoFisher Multidrop Combi nL
- Agilent Technologies PlateLoc Sealer
- Agilent Technologies Microplate Centrifuge
- Brooks Automation XPeel Peeler
- BioTek EL406 Fully-loaded with 96- or 192-pin Manifold

CONFIGURATION E



SYSTEM COMPONENTS

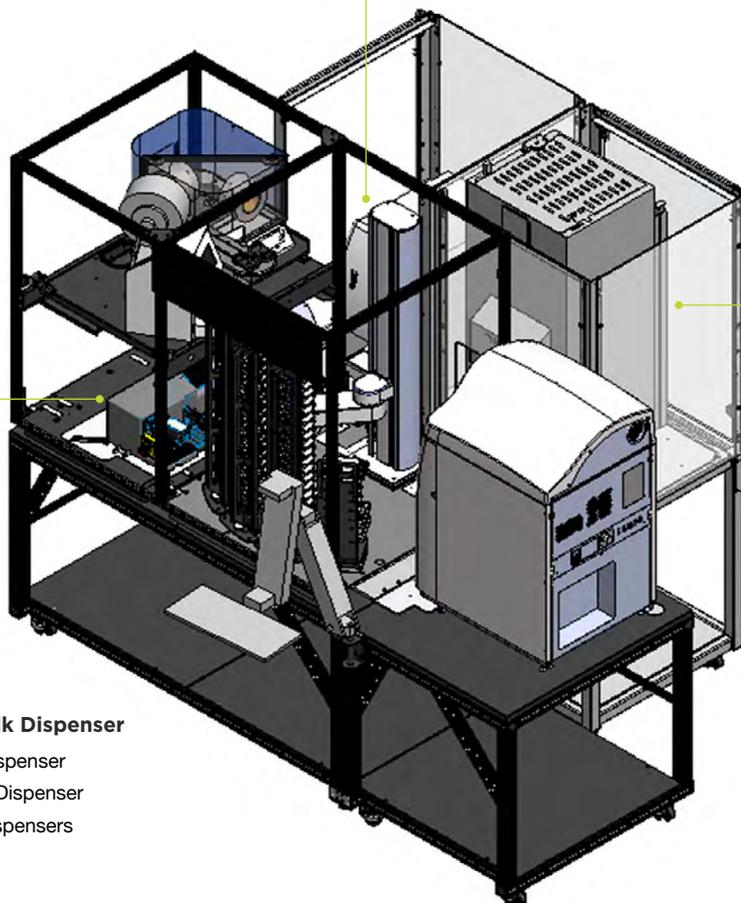
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- ACC-712 4-Plate Lid Handling Station
- ACC-714 Base Extension with Shelf
- ACC-715 96" Workstation Table
- ACC-724 Small Rear Table

SYSTEM DEVICES

- Labcyte Echo 525 or 555 Liquid Handler
- BMG PHERAstar FS Plate Reader
- Inheco Teleshake
- ThermoFisher Multidrop Combi nL (2X)
- Agilent Technologies PlateLoc Sealer
- Agilent Technologies Microplate Centrifuge
- Brooks Automation XPeel Peeler

CONFIGURATION F

PE Envision Multimode Plate Reader



Cytomat 2C Robotic Incubator

- 56-, 1536-well Plates
- 42-, 96-, or 384-well Plates

BioTek MultiFlo FX Bulk Dispenser

- RAD Single Channel Dispenser
- 1 Peristaltic 8-channel Dispenser
- 2 Syringe 8-channel Dispensers

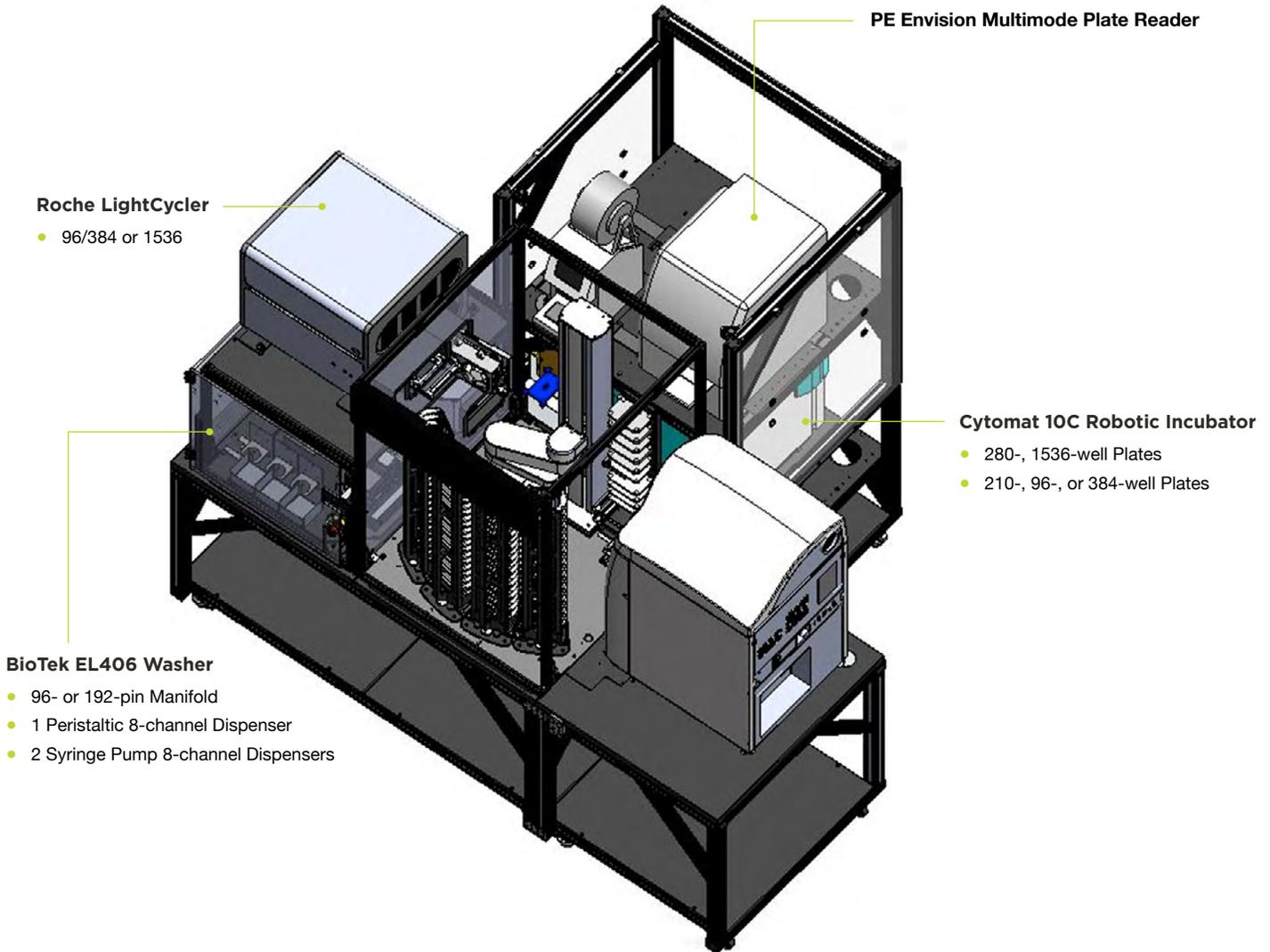
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- ACC-714 Base Extension with Shelf
- ACC-715 96" Workstation Table
- ACC-724 Small Rear Table

SYSTEM DEVICES

- Labcyte Echo 525 or 555 Liquid Handler
- Inheco Teleshake
- BioTek MultiFlo FX Full-loaded with RAD Tech
- PerkinElmer Envision Multimode Plate Reader
- Agilent Technologies PlateLoc Sealer
- Agilent Technologies Microplate Centrifuge
- Brooks Automation XPeel Peeler
- ThermoFisher Cytomat C2 Series

CONFIGURATION G



SYSTEM COMPONENTS

- ACC-700 Access Workstation Base System
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- ACC-714 Base Extension with Shelf
- ACC-715 96" Workstation Table
- ACC-719 Large Rear Table
- ACC-727 Large Rear Table Shelf

SYSTEM DEVICES

- Labcyte Echo 525 or 555 Liquid Handler
- Inheco Teleshake
- BioTek EL406 Fully-loaded with 96- or 192-pin Manifold
- PerkinElmer Envision Multimode Plate Reader
- Agilent Technologies PlateLoc Sealer
- Agilent Technologies Microplate Centrifuge
- Brooks Automation XPeel Peeler
- Roche LightCycler 480 or 1536

Workflows

Cell Dispensing

- Use either the integrated dispenser for plating cells in bulk or the Echo 525 for dispensing high value samples

Cell Modification

- Dispense transfection reagents to assay plate using Echo or bulk dispenser
- Transfer DNA, RNP, siRNA, or gRNA to assay plate using the Echo Liquid Handler
- Dispense cells to transfection complex in assay plate using Echo or bulk dispenser
- Incubate at 37°C in the environment controlled incubator
- Use the integrated plate washer for media changes and cell maintenance until ready for assay

Potency / Efficacy Assays

- Dispense cells onto compound ready assay plates or dispense compounds, single or direct dilution range of concentrations, using Echo Liquid Handler into the cell plate
- Add lysis buffer or leave cells intact
- Dispense detection reagent
- Use ambient or temperature controlled storage for incubation steps
- Read plate and generate data using integrated multimode reader

Genomic Assays

- Dispense cells, with or without test molecule using the Echo or bulk dispenser
- Incubate plate using ambient or temperature controlled storage locations
- Add lysis buffer to cells using bulk dispenser or Echo
- Add primer, probe, or master mix using the Echo 525
- Run xPCR or use a multimode reader to generate results

Phenotypic Assays

- Dispense cells, with or without test molecule in single, direct dilution or combination formats
- Incubate using the environment controlled incubator
- Use the plate washer as needed for cell washes and media changes
- Add stain or detection reagent using an Echo or bulk dispenser
- Incubate in ambient or temperature controlled storage locations
- Read plate on integrated plate reader for results

Labcyte Microplates

Sample Storage

- Labcyte Echo® Qualified 384 and 1536LDV Microplates are designed for long term sample storage with minimal dead volume

Protection

- Labcyte MicroClime™ Lids protect samples and reagents from evaporation and contamination

Reagent Source

- Labcyte Echo® Qualified 384PP Microplates and Echo® Qualified Reservoirs are commonly used to contain assay reagents and cells during transfer

Other Compatible Echo Liquid Handlers

This Access Workstation is compatible with all 500 series of Echo Liquid Handlers.

Software Applications

The Access Workstation includes the advanced, but easy to use, Tempo™ scheduling software that can integrate Echo software protocols into fully automated routines. Many Access Workstation users find Echo® Plate Reformat, Echo® Dose-Response, Echo® Cherry Pick and Echo® Combination software essential for cell based and biochemical applications.

Information

For more information, please visit www.labcyte.com/access.

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