BLUE CAT BIO

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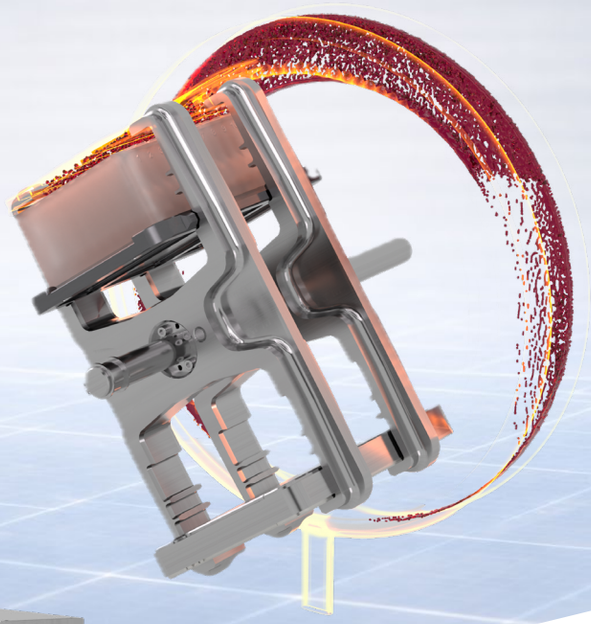
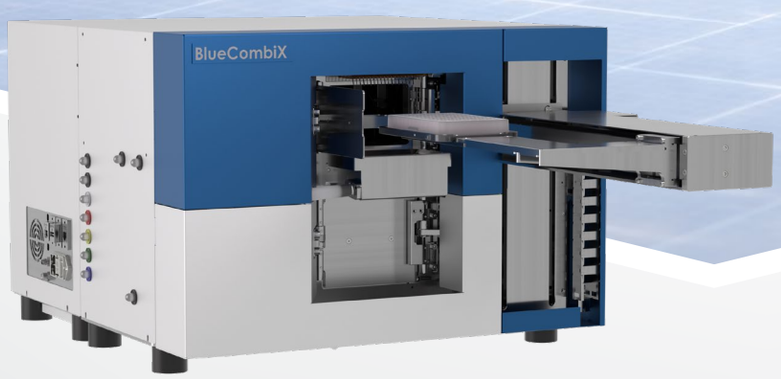




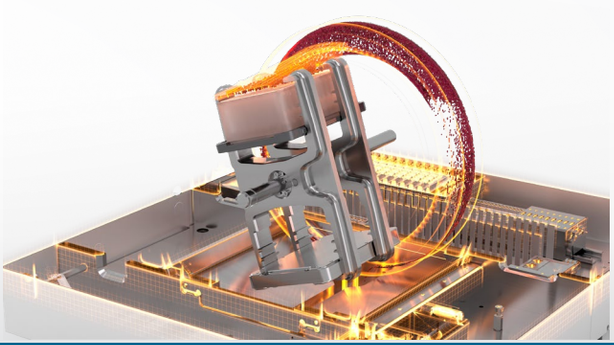
BLUE®CATX

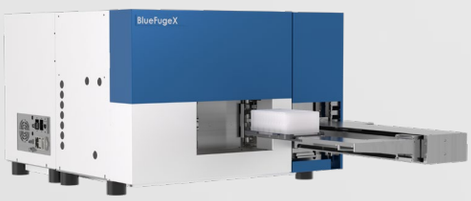
A MODULAR PLATFORM COMBINING CENTRIFUGATION, EVACUATION, DISPENSING AND PLATE STORAGE IN ONE SINGLE, COST-EFFECTIVE PACKAGE. ENABLED BY THE BLUE CAP LIQUID WASTE REMOVAL SYSTEM THAT KEEPS THE ROTOR SPACE DRY AND CLEAN

The modular **Blue®CatX** platform is available as **Blue®FugeX**, **Blue®WasherX** and **Blue®CombiX**. Each variant is re-configurable into any other via upgrade kits making it highly economical to add functionality. Load plates by hand, or external robot on the autoloader that also serves an available carousel plate store. Dispenses from 7 shared and 3 dedicated liquid inputs into any plate format (6w to 1536w, deep well). Fully configured **Blue®CombiX** using our SLAS2024 New Product Award winning **Blue®Plate** automates flow cytometry sample prep with all spindown, washing and reagent addition steps.

Blue®Cap System

Sharing a rotor space for centrifugation and evacuation is enabled by the patent pending Blue®Cap waste removal system that keeps liquids and aerosols out of the rotor space, guaranteeing that plates being centrifuged cannot be contaminated from plates previously evacuated. The Blue®Cap consumable captures liquid waste directly above the plate during centrifugal evacuation and guides waste away from the precious samples via the Blue®Ring, keeping the rotor space dry and clean. Easily maintain sterility by regularly replacing the Blue®Cap.









	Blue®FugeX	Blue®WasherX	Blue®CombiX
	Highest acceleration automated centrifuge, tall door to load sandwich plates and precise settlement into well centers matching much larger centrifuges	The evolution of our SLAS2015 NPA winning **Blue®Washer** features **Blue®Cap** and a larger, configurable rotor to evacuate any plate (6w to 1536w, deep well) with improved consistency	Enabled by the patent-pending **Blue®Cap** waste removal system that keeps the rotor space dry and clean, **Blue®CombiX** combines centrifugation and evacuation in a single, cost-effective package
Options	▸Autoloader ▸Carousel plate store ▸Anytime upgrade to Blue®CombiX	▸Dispensing from 7 shared and 3 dedicated liquid inputs ▸Carousel plate store ▸Anytime upgrade to Blue®CombiX	▸Dispensing from 7 shared and 3 dedicated liquid inputs ▸Carousel plate store
Applications	▸Cell spin-down into Blue®Plate with super fast ramp-up/ ramp-down speed ▸Filtration/ sandwich assays ▸Cell pelletization ▸Condensate spin-down ▸De-gassing	▸Blue®Plate evacuation and wash ▸Low residual, consistent media change for highest quality cellular assays ▸No tip magnetic bead assays ▸Sterile applications ▸Applications requiring waste-touching parts be replaceable ▸Low adherent cellular and bead assays requiring more consistent g-force across rows than original Blue®Washer	▸Blue®Plate flow cytometry and 3D cellular assay sample prep with all spin-down, washing and reagent addition steps ▸Fast, no-tip sample pooling with Blue®Pool ▸All Blue®FugeX and Blue®WasherX applications
Compatible plates	▸Any SBS format plate and plate sandwich up to 60mm tall	▸Any SBS format plate up to 44mm tall (6w – 1536w, deep well)	▸Wash: any SBS format plate up to 44mm tall (6w – 1536w, deep well) ▸Centrifuge: sandwich assays up to 60mm tall
Key specs	▸Max 1000g at 3,000RPM ▸Acceleration: 1,000 RPM/s Deceleration: 1,000 RPM/s ▸Maximum weight difference between rotor sides at 8.5 cm: +/-10 g @ ≤3,000 RPM +/-15 g @ ≤2,700 RPM +/-25 g @ ≤2,400 RPM +/-30 g @ ≤2,100 RPM	▸Residual volume after centrifugal evacuation: 0.01µl to 5µl per well, depending on application-specific evacuation method selected ▸G-force delta between outside and center rows of 96w plate: 6% (vs. 43% original Blue®Washer) ▸Dispenser: %CV: <+-3% ▸Dead volume: 8ml	▸See Blue®FugeX and Blue®WasherX key specs
Weight	▸85kg	▸90-95kg, depending on required tolerance for imbalance and dispenser options	▸90-95kg depending on dispenser options

Operation: Via PC-based graphical user interface or 3rd party controller via open API
Dimensions (HxWxD)**:** 41cm x 49cm x 60-80cm
Power requirements: 100 – 240 V, 50/60 Hz, 1000 W, auto sensing, I max = 10A
Ambient temperature: 15°C – 55°C | 60 F – 130F

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