

# C.STATION™

## From Single Cells to Top Clones. Fully Automated and at Scale.



The C.STATION is the first fully automated workstation designed to address all the specific steps in modern stable cell line development (CLD) workflows.



**The most complete platform for CLD:** The C.STATION goes beyond cell cloning and productivity screening. It supports all critical CLD workflow steps to drive research or generate master cell banks (MCBs), including expansion and high-throughput fed-batch culture.



**Flexibility and throughput:** The C.STATION delivers capacity tailored for modern CLD labs, increasing efficiency and results whether you're running a few campaigns annually or multiple simultaneously. Seed hundreds to thousands of clones without impacting timelines or increasing manual workload.



**Adherent and suspension cells:** Advanced cell culture operations with both adherent and suspension cells enable broad compatibility with the most important CLD cell lines, including CHO, HEK, and iPSCs.



**Regulator-friendly:** Produce high-quality cell lines and automated clonality reports that meet regulatory requirements for FDA and EMA applications, including IND and BLA submissions.



**Single point of contact:** With CYTENA, your procurement team works with a single vendor. Enjoy seamless support from one team, covering the entire workstation.



**Predictable timelines and outcomes:** The preconfigured workstation deploys in months—not years—allowing you to start quickly with a library of preconfigured methods optimized for modern CLD.



**Shorten CLD timelines:** Advanced technologies like early titer screening and small-scale, high-throughput fed-batch culture enable early selection of high-performing clones, saving time, reagents, and costly labware.



**Complete data management solution:** Ensure full traceability, eliminate human error, and manage large data volumes with the integrated clone-centric database and dedicated C.STUDIO and C.SERVICES software.



**Made for CLD scientists:** Lab automation for complex cell culture workflows has never been more accessible. The C.STATION is designed with the end user in mind, featuring an intuitive interface that eliminates the need for expertise in automation or programming.

## The World's Only Purpose-built CLD Automation Workstation

- ✓ From cloning to screening RCB/MCB candidates - all on one system
- ✓ Clone-centric data management solution
- ✓ Full process control with Green Button Go scheduler
- ✓ Supports GMP & 21 CFR Part-11 compliance
- ✓ Biosafety Level 1 & 2 configurations
- ✓ Available for adherent and suspension cell lines

## Impact Areas

- ✓ Therapeutic monoclonal antibodies
- ✓ Safe and scalable screening of viral vector-producing clones
- ✓ iPSC-derived cell lines in GMP environment
- ✓ End-to-end automated cell line development workflows



Intrigued? Get in touch.



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# Technical Specifications

	C.STATION Suspension BSL1	C.STATION Suspension BSL2	C.STATION Adherent BSL2
Biosafety Standard	Class I according to NSF/ANSI 49 A2 respect. BS EN 12469:2000 (product protection) HEPA H14 filtered intake	Class II according to NSF/ANSI 49 A2 respect. BS EN 12469:2000 (product and user protection) HEPA H14 filtered intake and exhaust 70/30 recirculation principle with 30% exhausted air	Class II according to NSF/ANSI 49 A2 respect. BS EN 12469:2000 (product and user protection) HEPA H14 filtered intake and exhaust 70/30 recirculation principle with 30% exhausted air
Plate Compatibility	ANSI SLAS1-2004 (R2012) without FB module: up to 6-Well with FB module: up to deep-well	ANSI SLAS1-2004 (R2012) without FB module: up to 6-Well with FB module: up to deep-well	ANSI SLAS1-2004 (R2012) up to 6-Well
Fed-Batch Option	yes	yes	no
Plate Capacity	without FB module: up to 60 plates with FB module: up to 44 plates	without FB module: up to 60 plates with FB module: up to 44 plates	up to 60 plates
Cell Sorting	Cell Morphology and Fluorescence on CYTENA UP.SIGHT	Cell Morphology and Fluorescence on CYTENA UP.SIGHT	Cell Morphology and Fluorescence on CYTENA UP.SIGHT
Plate Washer	no	no	CYTENA C.WASH
Liquid Handling	Hamilton STARlet M	Hamilton STARlet M	Hamilton STARlet M with optional 96-Well head (MPH)
Liquid Handling Pipette Tips	50/300/1000 µL filtered or unfiltered, capacitive tips <i>*unfiltered 50/300 µL tips stackable for 4x capacity on deck</i>	50/300/1000 µL filtered or unfiltered, capacitive tips <i>*unfiltered 50/300 µL tips stackable for 4x capacity on deck</i>	50/300/1000 µL filtered or unfiltered, capacitive tips <i>*unfiltered 50/300 µL tips stackable for 4x capacity on deck</i>
Liquid Handling Specifications	Minimum/maximum aspirate and dispense volume 50 µL tip 300 µL tip 1000 µL tip	1-1000 µL depending on tip type @1 µL: 4.0% precision, 5.0% trueness @50 µL: 0.75% precision, 2.0% trueness @200 µL: 0.75% precision, 1.0% trueness @1000 µL: 0.75% precision, 1.0% trueness	1-1000 µL depending on tip type @1 µL: 4.0% precision, 5.0% trueness @50 µL: 0.75% precision, 2.0% trueness @200 µL: 0.75% precision, 1.0% trueness @1000 µL: 0.75% precision, 1.0% trueness
Liquid Handling Troughput	Fill one 96-well microtiter plate with 100 µL samples (new tips for each sample): 320 s Aliquot 100 µL to each well of a 96-well plate, liquid level detection on aspirate: 35 s	Fill one 96-well microtiter plate with 100 µL samples (new tips for each sample): 320 s Aliquot 100 µL to each well of a 96-well plate, liquid level detection on aspirate: 35 s	Fill one 96-well microtiter plate with 100 µL samples (new tips for each sample): 320 s Aliquot 100 µL to each well of a 96-well plate, liquid level detection on aspirate: 35 s
Incubation Temperature	RT+5 °C to 37 °C optional cooling: 4°C to 50 °C	RT+5 °C to 37 °C optional cooling: 4°C to 50 °C	RT+5 °C to 37 °C optional cooling: 4°C to 50 °C
Incubation CO <sub>2</sub>	0-20 Vol% CO <sub>2</sub>	0-20 Vol% CO <sub>2</sub>	0-20 Vol% CO <sub>2</sub>
Incubation Humidity	without FB module: < 95% with FB module: < 80%	without FB module: < 95% with FB module: < 80%	< 95%
Plate Shaking for Assays	200-3000 rpm, constant 2 mm diameter	200-3000 rpm, constant 2 mm diameter	200-3000 rpm, constant 2 mm diameter
Software	Green Button Go Scheduler, C.STUDIO (Analysis) on Windows 11	Green Button Go Scheduler, C.STUDIO (Analysis) on Windows 11	Green Button Go Scheduler, C.STUDIO (Analysis) on Windows 11
Computation	Custom Rack PC	Custom Rack PC	Custom Rack PC
Dimensions (W x D x H)	3500 x 1200 x 2400 mm 137.80 x 47.25 x 94.5 in	4200x1550x2440 mm 165.50 x 61.10 x 96.10 in	4200x1550x2440 mm 165.50 x 61.10 x 96.10 in
Footprint Service Mode (W x D)	3500 x 2540 mm 137.80 x 100.00 in	4650 x 2240 mm 183.10 x 88.25 in	4650 x 2240 mm 183.10 x 88.25 in
Weight	1500 kg (3310 lbs)	2000 kg (4410 lbs)	2000 kg (4410 lbs)
Area load	< 400 kg/m <sup>2</sup> < 85 lbs/ft <sup>2</sup>	< 500 kg/m <sup>2</sup> < 105 lbs/ft <sup>2</sup>	< 500 kg/m <sup>2</sup> < 105 lbs/ft <sup>2</sup>
Power Supply	400 VAC, 32 A via IEC 60309 6h (3L+N+PE) option: 3x individually fused line: 230 VAC, 16 A	400 VAC, 32 A via IEC 60309 6h (3L+N+PE) option: 3x individually fused line: 230 VAC, 16 A	400 VAC, 32 A via IEC 60309 6h (3L+N+PE) option: 3x individually fused line: 230 VAC, 16 A
Ambient Conditions	+15 °C to + 25 °C non-condensing air (30% – 80% rH)	+15 °C to + 25 °C non-condensing air (30% – 80% rH)	+15 °C to + 25 °C non-condensing air (30% – 80% rH)

## Resources

Learn more about the power of the platform




Tool & Calculators




Application Notes




Wall of Love



Intrigued? Get in touch.

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