Product Specifications

Thermo Scientific High-Content Screening Workcell™

Developed for laboratories running high content screening (HCS) campaigns, the Thermo Scientific HCS WorkCell is the first preconfigured solution that packs exceptional performance into a small footprint. The system incorporates best-in-class HCS and automation technologies in a contained, controlled, and compliant assay environment.

Designed for HCS

The Thermo Scientific HCS WorkCell is a complete automation solution for high-content screening that is applicable to a variety of cell imaging assays. Its design encompasses features critical for sensitive live cell assay analysis at high throughput. Only the HCS WorkCell has the unique ability to capture subtle responses, thanks to Thermo's experience in performing time-course assays.

Thermo Scientific POLARA® scheduling software enables the HCS WorkCell to perform multiple assays in parallel, with each assay providing a multi-parameter analysis.

Important Technical Advantages

The HCS WorkCell provides attractive advantages versus large, costly, customized platforms:

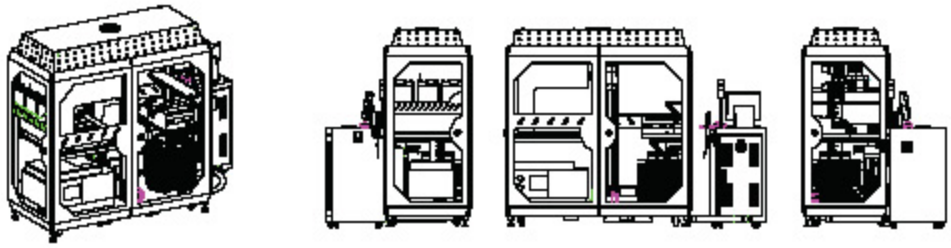
- Full enclosure, with safety interlocks
- Vertical integration for "floor-to-ceiling" space utilization
- Reduced footprint and easy transport
- Optimized scheduling for overlapping operations and maximum component utilization

Critical Drug Discovery Capabilities

The HCS WorkCell offers a broad range of functionality, including liquid handling, incubation, washing, barcode reading, and more. It can incubate cell plates before and after dosing with appropriate dilutions of samples, perform post-biology processing such as fixation, permeabilization, and label additions, then perform HCS image analysis and data storage — all completely unattended. Why pay for a large customized system when the flexible HCS WorkCell will perform all your high-content screening applications, start to finish?

HCS WorkCell Specifications

Power Requirements	Each unit requires 3 electric power outlets. Characteristics: 115 V ac, ±10 V ac; 15 A; 60 Hz.	
Gas Supply	The system requires an air supply of 80-100 psi. The incubator will also require CO_2 with appropriate gas lines and regulators.	
Environmental Requirements	For humidity For temperature	40%-80%, noncondensing 10°-40°C (50°-104°F)
Dimensions	HCS WorkCell Control tower (attached to WorkCell with electrical umbilical) External incubator (attached directly to side of WorkCell)	81" x 38" x 86" 24" x 24" x 50" 25" x 20" x 48"
Floor Conditions	Foot-loading requirements for the floor: 170 psi for unit with 4 feet 115 psi for unit with 6 feet (upon request, 2 additional feet can be added to WorkCell)	
Software	POLARA scheduling software with Web service communication	
Plate Handling	Vertical Array Loader (VAL) with 50" of travel	
Core Capabilities	High-content imaging Liquid handling Bulk dispensing Plate washing CO_2 incubation 120-plate random access storage Barcode reading Delidding Regripping Plate sealing	



Thermo Scientific Services

We are committed to helping your laboratory achieve success. Our solutions ensure that your automation systems are optimized for accuracy, productivity, and performance. We offer flexible solutions:

- Service agreements
- Preventive maintenance plans
- Software upgrades
- Software application support
- Technical support
- Integration services
- Relocation services
- Training

Contact a Thermo Fisher Scientific representative to tailor the service solution that best meets your needs.

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