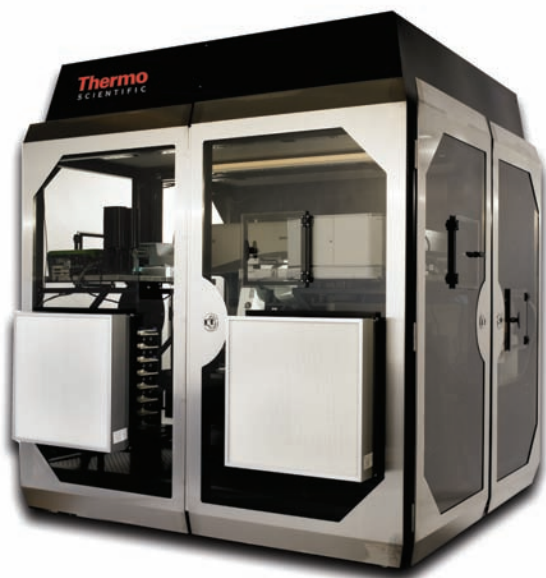


Thermo Scientific Cell Growth and Discovery WorkCell™

The first automated solution for both cell culture and cell-based assays. The only standalone laboratory automation system that can both grow assay-ready cell cultures and perform assays, simultaneously. It's ideal for pharmaceutical and biotechnical researchers conducting cell-based screening assays, as well as for cell line suppliers.



CGD Innovation and Flexibility

The Thermo Scientific CGD WorkCell is a breakthrough automated solution for cell growth and discovery. This fully contained, environmentally controlled turnkey system simultaneously handles multiple plate/flask formats and can perform cell maintenance, colony selection, and RNAi studies — all unattended.

The system performs a wide variety of assays at the optimal point of cell growth. It furnishes cells suitable for activities from cloning and transfection studies to general cell line amplification.

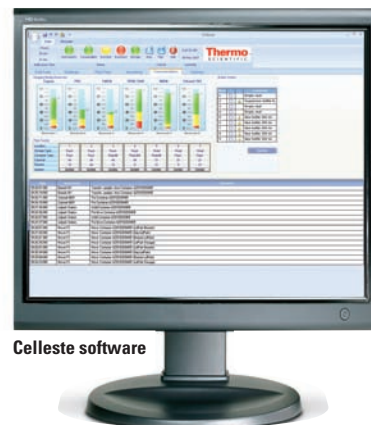
Combining sophisticated robotics with a new generation of user-friendly software, the CGD WorkCell delivers more ease of use and greater functionality than any other single system. Options add even more functionality such as advanced image analysis. The system's design builds on decades of experience from Thermo Fisher Scientific, the world leader in serving science.

Important Benefits

- Accommodates wide variety of cell types
- Significantly improves quantity and quality of characterized cells
- Eliminates human error
- In-line cell growth and analysis
- Improves data consistency
- Ensures user safety and cell line integrity

Containment and Protection

Featuring full Level II HEPA containment, the high-capacity CGD WorkCell offers controlled, sterile growing conditions. Large doors provide unhindered entry during major operations. Ports offer easy access during consumables restocking, while still protecting cells from contamination — and users from potentially hazardous aerosols and vapors.



Celleste software

The Thermo Scientific Celleste software has been specifically designed for the CGD WorkCell. It's the first user-friendly workflow management tool specifically designed for cell growth and discovery applications. Celleste maximizes unattended "walkaway" time so users without automation or robotics expertise can focus on their science, not their system.

The software turns complex, automated multi-cell-line schedules into simple task buttons and configured process-specific operations. Users can dynamically schedule automated cell growth, manipulation, and analytical procedures, tracking activities without actively managing complex cell growth programs. Additionally, the system's 24/7 operation enables long-term cell maintenance, providing alerts (via E-mail, pager, etc.) when cells are confluent and ready for use, and tracking reagents and consumable levels.

CGD WorkCell Specifications

Power Requirements	115 V ac, ±10 V ac; 15 A; 60 Hz 4X Nema 5-20R receptacles 4 X 20 amp circuits
Gas Supply	The system requires an air supply of 80-100 psi with 1/4" fitting. The incubator will also require CO ₂ with appropriate gas lines and regulators.
Dimensions CGD WorkCell	84" wide x 72" deep x 96" high
Control Tower	21" wide x 31" deep x 57" high (attached to WorkCell with electrical umbilical)
External Incubator	32" wide x 37" deep
Software	Celleste for Cell Growth & Discovery A deep user environment providing simple control for complex processes.
Plate Motion	Thermo Scientific F3 6-axis articulated arm, class 100 certified
Core Capabilities	Liquid handling** Cell and Bulk Reagent dispensing** Plate washing CO ₂ incubation 42-508 plates** 320-plate random access storage Barcode reading Delidding Decapping Regripping Refrigeration * Centrifugation*
Analysis	Cell and viability counting Cell imaging and/or well-based intensity readout*
Plate & Culture Vessels	6,24,96,384 Micro-Titre plate NUNC™ OmniTray Corning® RoboFlask™ cell culture vessels with decapping BD Falcon™ automated cell culture flask Grenier Bio-one CELLSTAR® AutoFlask™

** Extendable * Optional

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