

Laboratory products

# The heart of every lab

Designed for you,  
helping advance science

thermo scientific

# Laboratory equipment

## Designed for your application

Thermo Scientific™ laboratory equipment is designed with your application in mind. Our broad portfolio is built on technological know-how delivering reliable, high-quality products for sample preparation and processing. We combine outstanding engineering work and application expertise to create high-performance equipment that helps provide exceptional sample protection in a comfortable, ergonomic design.

To enable years of service, our equipment includes advanced technology with connectivity enablement and is supported by a global service network.

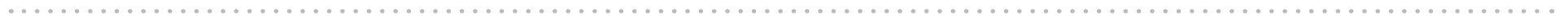
Our continuous innovation efforts are focused on developing greener products with energy efficient operation and sustainable production.



# Overview

Product categories

 Click on categories to learn more



# Centrifuges, rotors and accessories



## Product portfolio

- Choose from many models and configurations, from the smallest mini to high-throughput benchtop and large-capacity floor-standing as well as industrial centrifuges
- Swinging bucket and fixed angle rotors, including lightweight and ergonomic Thermo Scientific™ Fiberlite™ Carbon Fiber Rotors with a 15 year warranty
- Buckets, adapters for various sample containers, biocontainment lids, bottles (from 250 mL to 2 L), ultracentrifuge tubes and BioProcess Containers.

Centrifuge selection overview 

**Centrifuge overview**  
Mini, micro, small bench and general purpose

Thermo Scientific™ Centrifuges provide optimal speed and quality to fit every application.

Model name	Model #	Max. Speed (rpm)	Max. Capacity (mL)	Max. Capacity (g)	Max. Capacity (mL)	Max. Capacity (g)	Max. Capacity (mL)	Max. Capacity (g)	Max. Capacity (mL)	Max. Capacity (g)
Mini	Mini 1	10,000	1.5	150	1.5	150	1.5	150	1.5	150
Micro	Micro 1	10,000	1.5	150	1.5	150	1.5	150	1.5	150
Small bench	Small bench 1	10,000	1.5	150	1.5	150	1.5	150	1.5	150
General purpose	General purpose 1	10,000	1.5	150	1.5	150	1.5	150	1.5	150

Centrifuge portfolio brochure 



## Innovative technologies\*

1

Thermo Scientific™ Auto-Lock™ Technology for a secure, ergonomic and fast rotor exchange



2

Thermo Scientific™ ClickSeal™ Biocontainment Lids offer biocontainment sealing for glove-friendly, one-handed open/close capability



3

Touchscreen for simple programming, operation and monitoring



4

Thermo Scientific™ Auto-ID Instant Rotor Identification automatically loads rotor specifications into centrifuge parameters

5

Thermo Scientific™ Centri-Log™ Plus Data Management Software for FDA 21 CFR Part 11 compliance

\*Applicable to certain models

Learn more at [thermofisher.com/centrifuges](https://thermofisher.com/centrifuges)



# Biological safety cabinets and clean benches



## Product portfolio

- Class II Biological Safety Cabinets
- Cytotoxic cabinets
- Horizontal laminar flow clean benches
- Ergonomic accessories

## Selection guide - interactive PDF



## Innovative technologies\*

- 1 Thermo Scientific™ Smart-Flow™ Plus and DAVE™ Airflow Technologies enable smart protection that never takes a day off
- 2 Touchscreen for fast programming and monitoring and connectivity options
- 3 Self-adjusting germicidal UV lights help support cleaning routines
- 4 SmartClean Plus window design enables easy access and cleaning
- 5 Thermo Scientific™ SmartPort™ convenience helps provide a clean and safe way to pass tubing and wiring through the side wall

\*Availability depends on model and region.

Learn more at [thermofisher.com/bsc](https://thermofisher.com/bsc)

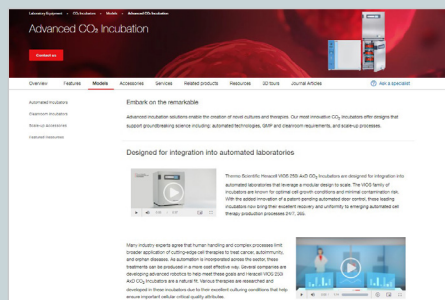
# CO<sub>2</sub> incubators and accessories

## Innovative technologies\*

- 1 Thermo Scientific™ THRIVE™ Active Airflow Technology delivering homogeneous growth conditions
- 2 Active Particle Control System – to certify compatibility in ISO Class 5 and GMP Grade A/B cleanroom settings
- 3 Third party proven sterilization cycles up to 180°C for contamination elimination
- 4 Thermo Scientific™ Cell Locker™\* System for sensitive cultures
- 5 Open Platform Communication Unified Architecture (OPC™ UA) integration for select models

\*Applicable to certain models

## Automated and cleanroom incubators



## Product portfolio

- From small to large capacity CO<sub>2</sub> incubators
- Cleanroom-certified incubators
- Workflow integration support with optimized Thermo Scientific™ CultiMaxx™ Shelving Systems, OPC™ UA Gateway to help integrate incubators into your Distributed Control Systems (DCS), and other accessories



Learn more at [thermofisher.com/co2](https://thermofisher.com/co2)

# Heating equipment



## Product portfolio

- Microbiological incubators: Compact to large chambers, with refrigerated and advanced options
- Environmental chambers: For applications needing temperature, CO<sub>2</sub>, humidity and/or light stability control
- Heating and drying ovens for up to 330°C
- Vacuum ovens for up to 400°C
- Furnaces for up to 1,200°C

## Portfolio infographic



## Innovative technologies\*

- 1 Peltier technology enables reliable cooling with less energy and without hazardous refrigerants
- 2 Incubator built-in decontamination routines
- 3 Automatic over- and under-temperature alarms
- 4 Environmental chambers that meet ICH standards
- 5 Security features and remote monitoring
- 6 Data logging for support of 21 CFR Part 11 and remote data monitoring needs

\*Applicable to certain models

## Drug stability testing brochure



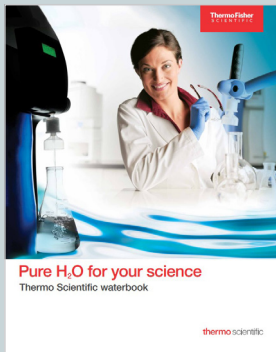
Learn more at [thermofisher.com/heatingequipment](https://www.thermofisher.com/heatingequipment)

# Water purification systems

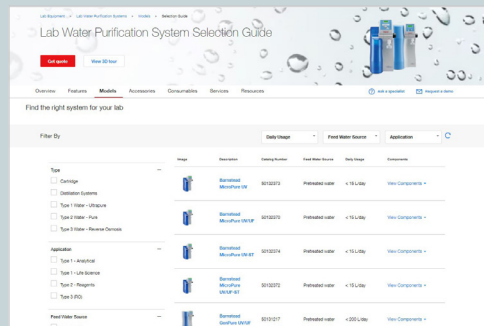
## Features and benefits

- 1 Designed for ease-of-use and self-service operation
- 2 Thermo Scientific™ xCAD dispensing and flexible configurations.
- 3 Emergency switch to help minimize downtime for clinical applications.
- 4 Designed for quick consumable change.
- 5 Water purification systems from 1 L per minute to 300 L per hour.

### Waterbook



### Online product selection guide



## Product portfolio

- Type 1 tap-to-ultrapure water systems
- Type 1 pre-treated-to-ultrapure water systems
- Type 2 pure water systems
- Reverse osmosis systems
- Clinical water systems for analysers



Learn more at [thermofisher.com/waterpurification](https://thermofisher.com/waterpurification)



# Shakers



## Product portfolio

- Orbital shakers
- Temperature controlled shakers
- CO<sub>2</sub> resistant shakers
- Incubator Shakers and CO<sub>2</sub> Incubator Shakers



## Innovative technologies

- 1 Powerful tri-eccentric balanced drive systems and touchscreen user controls available
- 2 Warranty packages with up to 10 years on drive mechanism on selected models
- 3 Temperature control with Peltier technology on selected models

## Shaker selection by configuration



Learn more at [thermofisher.com/shakers](https://thermofisher.com/shakers)

# Benchtop laboratory essentials



## Vacuum concentrators

- Integrated systems or individual components
- Pre-configured packages for specific solvents and acids available
- Broad rotor selection for volumes of 0.3-100 ml for tubes, vials and microplates

## SpeedVac kit selection guide

[illegible]

## SpeedVac ebook



Learn more at [thermofisher.com/speedvac](http://thermofisher.com/speedvac)



## Laboratory essentials

- Rockers, rotators, mixers, and shakers
- Hotplates, stirring hotplates, and stirrers
- Dry baths
- Electrophoresis systems
- Water baths

Learn more at [thermofisher.com/benchtopshakers](http://thermofisher.com/benchtopshakers)

Learn more at [thermofisher.com/hotplates](http://thermofisher.com/hotplates)

Learn more at [thermofisher.com/drybaths](http://thermofisher.com/drybaths)

Learn more at [thermofisher.com/owl](http://thermofisher.com/owl)

Learn more at [thermofisher.com/waterbath](http://thermofisher.com/waterbath)

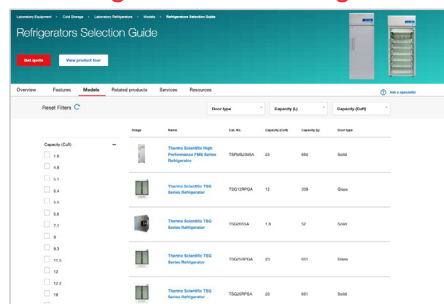
# Cold storage solutions



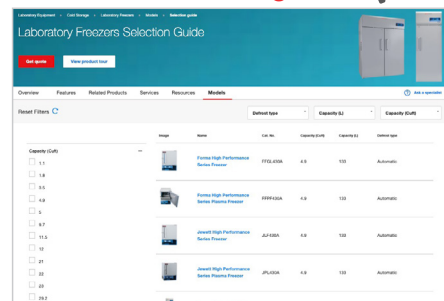
## Product portfolio

- Refrigerators and freezers
- Ultra-low temperature freezers
- Controlled-rate freezers and Cryopreservation systems

### Lab refrigerators selection guide



### Lab freezer selection guide

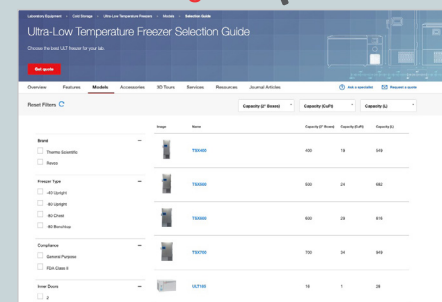


## Designed to support your science across cold temperatures

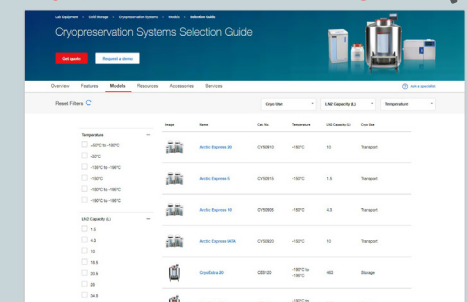
- 1 Short and long-term cold storage solutions ranging from 2°C to -196°C
- 2 Energy-efficient, sustainable solutions verified and certified against ACT™, SNAP, and ENERGY STAR®\*
- 3 Over 80 years of innovation in cold storage to help safeguard precious samples
- 4 Connectivity-enabled to help manage, monitor and analyse equipment data

\*Exact verification and certification of individual products differs across portfolios.

### ULT selection guide



### Cryopreservation selection guide



Learn more at [thermofisher.com/coldstorage](https://thermofisher.com/coldstorage)

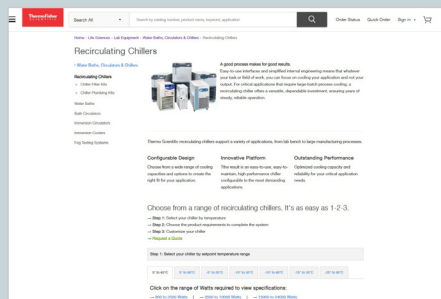
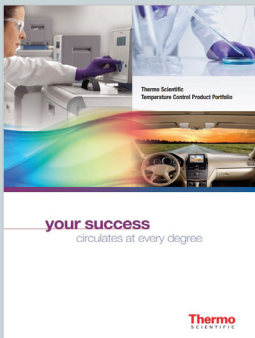
# Temperature control

## Temperature control product highlights

- 1 Outstanding temperature stability ( $\pm 0.1^{\circ}\text{C}$ )
- 2 Global service network
- 3 Thermo Scientific™ ThermoFlex™ Recirculating Chillers can service more applications than any other chiller. Exceptional configurability, options availability, and pump capacity.
- 4 UL and CE certified

### Chiller product selection guide

### Temp control overview



## Product portfolio

- Water baths with capacity from 2 to 89 litres, for water temperatures from ambient to  $100^{\circ}\text{C}$ .
- Circulators for cooling/ heating with temperature range from  $-45^{\circ}\text{C}$  to  $300^{\circ}\text{C}$  and energy-saving operation
- Laboratory chillers with cooling capacity from 250 W to 1.9 kW
- Recirculation chillers with cooling capacity from 1 kW to 24 kW with a wide range of options and models ideal for larger analytical equipment

Learn more at [thermofisher.com/tc](https://thermofisher.com/tc)



# Water analysis instruments



## Product portfolio

- Benchtop and portable electrochemistry meters and electrodes
- Potentiometric automated titrators
- Visible and UV-Visible spectrophotometers, colorimeters and turbidity meters
- Online process analyzers
- Solutions, standards, buffers and reagents

## Highlighted features

- 1 Versatile offering supports a broad range of chemical, physical and optical parameters
- 2 Product solutions for the lab, field and the line
- 3 Easy to use operation and maintenance
- 4 Accurate analysis with robust data and calibration log storage
- 5 Durable construction built to last

Note: Highlighted features are not available on all products. Speak with a Thermo Fisher Scientific sales representative to learn more.

### pH measurement handbook



### 5 Reasons Why pH is Critical to Successful Cell Culture



Learn more at [thermofisher.com/orion](https://thermofisher.com/orion)

# Connected solutions

## Benefits and features

- ✓ Scalable LoRa WAN wide area network
- ✓ Supports 21 CFR Part 11 data logging
- ✓ OPC™ UA for premise-based system integration
- ✓ 24/7 remote monitoring alarms and notifications
- ✓ Equipment location mapping
- ✓ Temperature, door open, energy, CO<sub>2</sub>, ambient temp, location, power, humidity and more
- ✓ Advanced monitoring telemetry, including system data, on-board equipment data and more

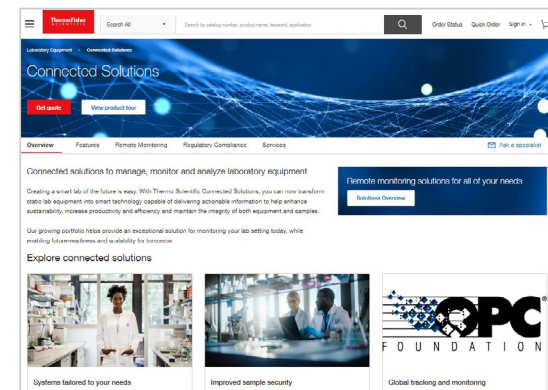


## Product portfolio

- Thermo Scientific™ Smart-Vue™ Pro Remote Monitoring System
- \*Thermo Scientific™ InstrumentConnect\*

\*Not available globally. Please contact your Thermo Fisher Scientific Sales Representative to learn about available solutions in your region.

## Features overview



## Case study



Learn more at [thermofisher.com/connectedsolutions](https://thermofisher.com/connectedsolutions)

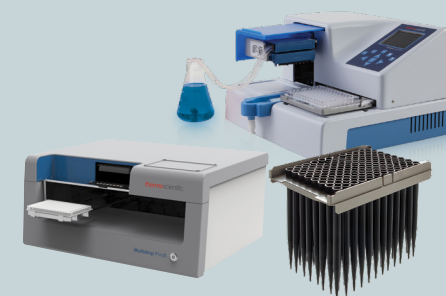
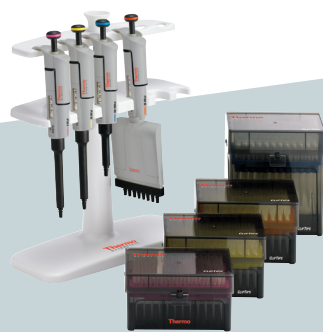
# Laboratory consumables and instruments

## Support your science

The laboratory supplies you use play an important but sometimes underestimated role in the success of your science. Our commitment to supporting your scientific achievements begins with enabling high-quality Thermo Scientific products that meet or exceed your expectations for performance according to the requirements of your applications. Our Fit for Purpose designations help provide an easy way to find and select the lab consumables that are ideally suited to your specific application needs. And when you're ready to buy our products, you can rest assured that our global footprint and regional manufacturing strategy help provide supply chain security. Our commitment to sustainability helps ensure products are ready when you need them, today and tomorrow. Now you can confidently forge ahead, achieve reliable results and focus on your science.



# Laboratory pipettes and instruments



## Pipettes and pipette tips

- All Thermo Scientific pipettes are available in single or multi-channel variants
- Designed to be robust, durable, sleek and to offer ergonomic comfort
- The Thermo Scientific™ ClipTip™ range offers a complete seal on every channel with tips that lock in place using a light touch
- The Thermo Scientific™ Finnpiquette™ range is engineered to deliver consistent and reliable results, ensuring optimal performance in every application
- Thermo Scientific™ ART™ universal pipette tips have an exceptional barrier to avoid contamination and are available in a variety of specialized options including gel-loading, wide-bore and low-retention

Pipette Systems	Manual or electronic	Volumes	Autoclavable	Fintip compatible	ClipTip compatible	Index finger trigger	Electronic tip ejection	Adjustable tip spacing	Bluetooth protocols
Finnpiquette™ F1	Manual	0.1µl - 1000µl		•					
Finnpiquette™ F2	Manual	0.2µl - 10,000µl	•	•					
F1-ClipTip™	Manual	0.2µl - 10,000µl	•		•				
Finnpiquette™ Novus	Electronic	1µl - 5000µl	•*	•		•			
E1-ClipTip™	Electronic	0.5µl - 1250µl	•*		•	•	•	•	•

\*Specific components only

## Reagent dispensers

- Thermo Scientific™ Multidrop™ Combi and Pico products enable precise, high-throughput dispensing
- A choice of models provides dispensing from 11 µL to 2500 µL
- Accommodates microplates from 6 to 1536 wells
- Easy to set up, use and maintain

Learn more at [thermofisher.com/pipettes](https://thermofisher.com/pipettes)

Learn more at  
[thermofisher.com/multidrop](https://thermofisher.com/multidrop)



# Laboratory consumables



## Reusable plastic labware

Thermo Scientific™ Nalgene™ labware is high quality, reusable and durable and available in a wide range of resins and sizes:

- Laboratory bottles
- Beakers
- Burets
- Carboys
- Cylinders
- Dessicators
- Dilution bottles, dropper bottles and wash bottles
- Erlenmeyer and Volumetric flasks
- Funnels
- Jars and jugs
- Tubing and tubing systems
- Vacuum apparatus

Learn more at  
[thermofisher.com/nalgene](https://thermofisher.com/nalgene)

## Immunoassay plates

- A wide range of high performance, cost-effective, immunoassay plates to fulfil ELISA kit requirements
- Helping provide maximum confidence in assay performance
- Advanced and consistent binding capacity
- Specialized surface treatments specific for antibody or antigen detection
- Diverse range of formats and styles available

Learn more at  
[thermofisher.com/elisaplates](https://thermofisher.com/elisaplates)

## Filtration

- Filter units available with membrane types: PES, SFCA, Nylon and CN\*
- Bottletop filters available with membrane types: PES and SFCA\*
- Storage bottles
- Syringe filters: A wide range of membrane types available including SFCA, CA, nylon and PTFE\*
- Filter Membranes and Prefilter disks available with membrane types: Nylon, Glass Fiber and Cellulose Acetate
- Water quality membranes
- Analytical membrane bands designed for use with most dispensers offering flexibility
- Analytical filter funnels

**\*Membrane types:** PES (Polyethersulfone), SFCA (Surfactant-free cellulose acetate), CN (Cellulose Nitrate), PTFE (Polytetrafluoroethylene)

Learn more at  
[thermofisher.com/filtration](https://thermofisher.com/filtration)

# Laboratory consumables and instruments



## Packaging bottles and vials

- High quality bottles, ranging in size from 0.5 ml up to 2,000 ml
- Available in a range of formats to suit your business
- Range of materials: a broad range of materials available including LDPE, HDPE and PET and autoclavable PPCO bottles
- Diagnostic bottles
- IP2 bottles
- Micro packaging vials
- Narrow and wide-mouth bottles
- Dropper bottles
- Square bottles
- Media bottles
- Sterile and non-sterile PET and PETG bottles

## Clinical consumables

- Petri dishes, tubes, and accessories for microbiology
- Polystyrene containers from 7 to 250 ml
- Polypropylene 30 ml universal containers
- Polypropylene Flip-Top vials, ideal for storing liquids and solids
- Transfer pipettes
- Drugs of abuse products
- Loops and spreaders
- Polystyrene urine tubes

## Sample storage

### Collect

- Thermo Scientific™ Nalgene™ and Nunc™ Cryotubes
- Thermo Scientific™ Matrix™ 2D Barcoded Tubes and Tri-coded Tubes
- Thermo Scientific™ Nunc™ and ABgene™ Storage Plates

### Seal

- Automated and manual decapping systems
- Thermo Scientific™ SeptraSeal™ Mats
- Thermo Scientific™ ALPS automated and manual heat sealers

### Track

- 2D Barcode readers

### Store

- Cryoboxes and freezing containers
- Universal latch racks

Learn more at  
[thermofisher.com/packagingbottles](https://thermofisher.com/packagingbottles)

Learn more at  
[thermofisher.com/clinicalconsumables](https://thermofisher.com/clinicalconsumables)

Learn more at  
[thermofisher.com/samplestorage](https://thermofisher.com/samplestorage)

# Applications

Find the right product for your application



# Cell and gene therapy

- Explore our laboratory products suitable for cell and gene therapy applications
- Discover a range of Thermo Scientific products to help support your GMP and cleanroom needs for cell and gene therapy
- Find options from CO<sub>2</sub> incubators and centrifuges to cold storage, biological safety cabinets, and beyond
- Learn about innovations supported by high-quality materials, Factory Acceptance Test (FAT) certification, and on-site compliance support

## Key featured products:



Thermo Scientific™ General Purpose Centrifuge - CTS™ Series



Thermo Scientific™ Herasafe™ 2030i Biological Safety Cabinet CTS™ Series



Thermo Scientific™ Cleanroom Certified CO<sub>2</sub> Incubators CTS™ Series



Thermo Scientific™ Cryomed™ Controlled-Rate Freezer with OPC™ UA



Thermo Scientific™ Steri-Cult™ CO<sub>2</sub> Incubator CTS™ Series

Find out more at [thermofisher.com/ctslabequipment](https://thermofisher.com/ctslabequipment)



# Biobanking

- Discover our range of consumables and equipment for your next breakthrough
- Products and services that help give you the power to secure and preserve your precious samples
- Innovative, high-quality products including ultra-low temperature freezers, storage tubes, controlled-rate freezers, wireless monitoring solutions and many more

## Key featured products:



Thermo Scientific™ TSX™  
Universal Series Ultra-Low  
Temperature Freezers



Thermo Scientific™  
Cryomed™ Controlled-Rate  
Freezer with OPC™ UA



Smart-Vue Pro Remote  
Monitoring System



Thermo Scientific™ Matrix™  
Tri-Coded Tubes



Thermo Scientific™ CryoExtra™  
High Efficiency Cryogenic  
Storage Systems (for -196 °C)

Find out more at [thermofisher.com/biobanking](https://thermofisher.com/biobanking)

# Food and beverage quality control

- Your brand and customers depend on the strength of your quality control data
- We can support your quality analysis workflows, helping you to improve efficiency, reliability and obtain more accurate data
- Thermo Scientific laboratory products for quality control in food and beverage come with end-to-end support - when you partner with us, you'll have access to global technical support teams, application support, and product services from day one

## Key featured products:



Thermo Scientific™  
Nalgene™ Analytical Filters  
and Accessories



Thermo Scientific™ TSX Series  
Laboratory Refrigerators and  
Freezers



Thermo Scientific™  
Orion™ Pro Star pH Meters



Thermo Scientific™ Barnstead™  
Smart2Pure™ Pro Water  
Purification System



Thermo Scientific™ Heratherm™  
Microbiological Incubators

Find out more at [thermofisher.com/foodandbeverageqc](https://www.thermofisher.com/foodandbeverageqc)

# Cell culture



- Thermo Scientific laboratory equipment for cell culture offers market-leading technologies to help improve productivity, comfort, efficiency and safety based on many years of experience, supporting your cell culture application from preparation to storage
- Technologically advanced products help keep your samples safe from contamination, protect your next discovery and help advance your research
- Range of equipment and consumable options available to meet individual application needs

## Key featured products:



Thermo Scientific™ 1500 Series A2 Biological Safety Cabinets



Thermo Scientific™ Heracell™ VIOS™ CO<sub>2</sub> Incubators



Thermo Scientific™ TSX™ Universal Series Ultra-Low Temperature Freezers



Thermo Scientific™ General Purpose Centrifuges



Thermo Scientific™ Solaris™ Orbital Shakers



Thermo Scientific™ Nalgene™ Rapid-Flow™ Filtration

Find out more at [thermofisher.com/safercells](https://www.thermofisher.com/safercells)

# Clinical solutions

We provide a robust fit-for-purpose clinical portfolio of equipment designed to support clinical labs, diagnostic labs or blood banks. In addition to products designed and built to high quality standards, we also offer specialized solutions, expert guidance, and timely support for labs with critical business needs during unprecedented times.

## Key featured products:



Thermo Scientific™ TSX Series  
Pharmacy Refrigerators and  
Freezers



Thermo Scientific™ Medifuge™  
Small Benchtop Centrifuge



Thermo Scientific™ TSX™  
Universal Series ULT freezers



Thermo Scientific™ Cryofuge™  
Large-Capacity Blood  
Processing Centrifuges



Thermo Scientific™ Samco™  
Clicktainer Vials

Find out more at [thermofisher.com/clinicalsolutions](https://thermofisher.com/clinicalsolutions)

*\*Pharmacy products are considered medical items in some countries, but not all.*



# Bioprocessing centrifuges



- Thermo Scientific bioprocessing centrifuges are designed for high quality, clean, fast and high-yield bioseparation
- Attain secure, continuous-flow harvest with our robust portfolio of integrated and scalable centrifugation solutions for applications ranging from cell and gene therapies to production of novel proteins, monoclonal antibodies and viral vaccines
- Learn more about single use, sterilized, closed systems for centrifugation that helps reduce contamination risks, simplifies cGMP compliance and saves time

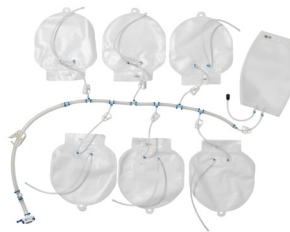
## Key featured products:



Thermo Scientific™ BIOS  
Centrifuge Series



Thermo Scientific™ LYNX™  
Superspeed Centrifuge Series



Thermo Scientific™ CentriPAK™  
BioProcess Container



Thermo Scientific™ Sorvall™  
WX+ Ultracentrifuge Series



Thermo Scientific™ Sorvall™  
CC40 Centrifuge Series

 Find out more at [thermofisher.com/bioprocessing-centrifuges](https://www.thermofisher.com/bioprocessing-centrifuges)



# Services

## New laboratory construction

- **Deep scientific expertise:** As a direct response to the needs of the market, we create innovative technologies that help you design a space that can help meet the most complex needs for the lab.
- **Collaborative culture:** Trust the world leader in serving science, focused on working with you to build a lab uniquely suited to your client's functionality and form.
- **Valuable resources:** Backed by a dedicated construction support and service team with tools created with you in mind. We aim to help provide you with everything needed to make the best decisions for your client.
- **Proven performance:** Feel confident in the quality and breadth of our portfolio that work together to create a practical lab.

Learn more at  
[thermofisher.com/newlab](https://thermofisher.com/newlab)

## Financial services

From traditional leasing programs to comprehensive subscriptions services, our financial solutions have the flexibility you need to support your budget and technology needs.

Learn more at  
[thermofisher.com/financialsolutions](https://thermofisher.com/financialsolutions)

## Equipment services

Unity™ Lab Services provides outstanding service solutions to support your equipment. Our comprehensive service portfolio was designed to meet the needs of your lab.

- Equipment service plans
- On-demand services
  - Compliance services
  - Preventive maintenance
  - Start-up services

Learn more at  
[thermofisher.com/unitylabservices](https://thermofisher.com/unitylabservices)



# Sustainability

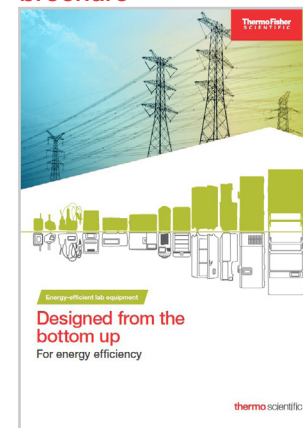
## Energy efficiency and more

Thermo Scientific laboratory equipment is designed and manufactured with environmental sustainability in mind. By using green refrigerants, designing for energy efficiency and building our products with recyclable materials whenever possible, we seek to protect the environment and help others do the same. Many of our laboratory equipment and consumables are My Green Lab ACT labelled, while our Thermo Scientific TSX Universal ULT freezers are ENERGY STAR® certified. These certifications provide clear, third-party verified information about the environmental impact of our products.

We are committed to achieve net-zero emissions by 2050, and are continuously investing in minimising the environmental impact of our products and packaging.

Find out more at [thermofisher.com/sustainability](https://thermofisher.com/sustainability)

Energy-efficiency brochure



Sustainability flyer



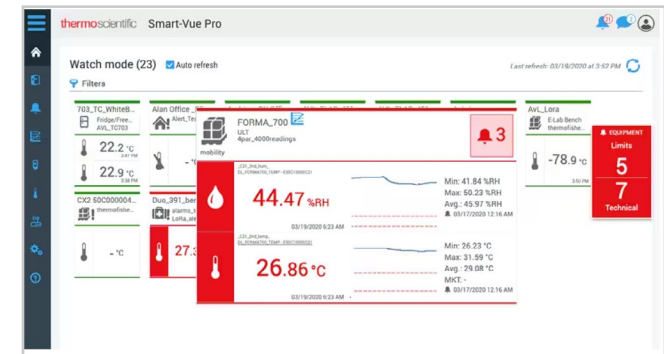
# Connectivity

## Building the lab of the future

Thermo Scientific laboratory equipment is developed in conjunction with remote monitoring and control platforms so you're ready for next-level operations and management. Our growing Connected Solutions platform includes global cold chain tracking, custom 24/7 remote monitoring for added sample protection and validated remote monitoring for 21 CFR Part 11 data logging to help improve efficiency and accuracy. We also offer asset performance analytics technology to monitor energy consumption and predict required maintenance—or even failure—ultimately helping you make data-based operations decisions. If you don't have the staff or time to manage your own equipment, monitoring as a service is available on select equipment. Thermo Fisher Scientific understands the importance streamlining lab systems, and that's why we're also bringing OPC UA capabilities to our equipment for easy integration.

Find out more at [thermofisher.com/connectedsolutions](https://thermofisher.com/connectedsolutions)

## Examples



Smart-Vue Pro Remote Monitoring System offers 24/7 remote monitoring and documentation of specific parameters, e.g. temperature, humidity, CO<sub>2</sub> and pressure.



OPC UA gateway (accessory) for Heracell VIOS/Vios CR incubators enables integration into Distributed Control Systems.



Integrated firmware of CryoMed Controlled-Rate Freezers for OPC UA integration. For cell and gene therapy companies our Gibco™ CTS™ Cellation™ Software supports workflow automation with Emerson™ DeltaV™ system.





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