

thermo scientific

# DISCOVER THE TOOLS BEHIND SCIENTIFIC SUCCESS



Thermo Scientific laboratory equipment  
and consumables

**ThermoFisher**  
SCIENTIFIC

# Thermo Scientific Laboratory Products

Infrastructure for every scientific innovation



Thermo Scientific™ instruments and consumables are the essential infrastructure of science. From the laboratory to the field, our products are the foundation of scientific innovations taking place everywhere, including life science and clinical research, biobanking, and food and water safety testing.

As a trusted partner to scientists, clinicians, and engineers around the world, we simplify processes and enable discovery with our laboratory products and solutions.

And that means as a customer you can focus on what you do best—making breakthroughs that improve and save lives. Your most critical applications require expert solutions. All you need, including worldwide service, support, and application knowledge delivering smart solutions to fit your specific needs in the lab.

Move ahead with complete confidence. Choose the world leader in serving science.

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

## Laboratory Equipment

Reliable. User-friendly. Innovative.

Our comprehensive portfolio of equipment, accessories and services is designed for outstanding sample preparation, analysis, storage and protection.

Thermo Scientific solutions are used primarily by pharmaceutical companies for drug discovery and development and by biotechnology companies and universities for life science research to advance the prevention and cure of diseases and enhance quality of life. Our portfolio within this segment consists of centrifuges, refrigerators and freezers, CO<sub>2</sub> incubators, shakers and biological safety cabinets.

Amongst others, our well-known brands Thermo Scientific™ Sorvall™ and Thermo Scientific™ MaxQ™ stand for reliability and innovation in laboratory equipment.



# Water and Laboratory Products

Precise. Consistent. Flexible.

This portfolio consists of a number of distinct product categories that can be used across industrial, pharmaceutical, academic, life science and clinical markets in quality control testing, industrial processes, research as well as sample preparation and analysis.

**Water Analysis** includes electrochemical sensors, meters and solutions for the measurement of pH, ORP, specific ions, conductivity, dissolved oxygen, turbidity and other key parameters in the lab, in the field, and on the production line where our Thermo Scientific™ Orion™ ROSS™ pH electrodes continue to be the critical foundation for the most stable and responsive measurements for over 35 years.

**Water Purification** systems for both analytical and life science, producing the best quality possible in ultra-pure water for end user demands for such applications as HPLC, GC, ICP, genetics and cell culture workflows.

**Constant Temperature** products offer customers the ability to keep samples at stable temperatures – this can be from as low as +4°C in our refrigerated incubators to as high as +1200°C in our furnaces. With leading names such as Thermo Scientific™ Heratherm™ (ovens, microbiological incubators, refrigerated incubators) and Thermo Scientific™ Vacuotherm™ (vacuum ovens) and our Thermo

Scientific™ environmental chambers we have a wide range to cater for all.

**Every Lab Every Day** includes a wide range of essential solutions ideal for maximising your daily work. Hotplates and stirrers, dry baths, rockers/rotators/mixers and Thermo Scientific™ Savant™ vacuum concentrators provide a solution to help produce consistent results.



# Laboratory Plastics and Liquid Handling

Comprehensive. High quality. Performance.



This product range consists of plastic labware and related consumables and equipment that customers use every day to support their scientific research, drug discovery and development, quality and process control, and clinical and basic research needs.

## Liquid Handling

Thermo Scientific liquid handling solutions encompass a broad range of products based on years of experience and innovation. From manual and electronic pipetting through to automated liquid handlers we offer a comprehensive liquid handling

solution to laboratory scientists.

Key ranges include Thermo Scientific™ FinnpiPETTE™ and Thermo Scientific™ ClipTip™ pipetting systems, Thermo Scientific™ ART™ tips and Thermo Scientific™ Multidrop™ Combi Dispensers. Advanced ergonomics, dependable accuracy and precision, uncompromised safety – all are the hallmarks of our innovative product design.

## Plastics

Our well-established product brands Thermo Scientific™ Nalgene™ labware and Thermo Scientific™ Nunc™ labware cover a wide range of products for science and research, clinical diagnostics, industrial production as well as transport and storage of valuable samples, intermediate products or hazardous substances.

Set the standard for quality and superior performance while protecting your valuable research with Thermo Scientific plasticware: serving your lab with bottles, carboys, beakers, funnels, jugs, jars, and a large selection of additional products designed to advance science and your research in the lab every day.

# Laboratory Equipment



## Benchtop Centrifuges and Rotors

- From microcentrifuges to general purpose centrifuges
- Ideal for clinical, cell culture and life science applications
- Thermo Scientific™ ClickSeal™ biocontainment lids for one-handed sample protection
- Thermo Scientific™ Auto-Lock™ technology for safe and easy rotor exchange
- Lightweight and ergonomic Thermo Scientific™ Fiberlite™ carbon fiber rotors



## Biological Safety Cabinets and Clean Benches

- Designed to maximise sample protection and operator safety
- Each Class II cabinet features either Thermo Scientific™ SmartFlow™ or SmartFlow™ Plus technology, to automatically balance inflow and downflow velocities
- Visible display of operation status for improved user confidence
- Extremely comfortable ergonomic design promotes safe working conditions
- Maximised energy efficiency due to dual DC motors
- Range of customisations available



## CO<sub>2</sub> Incubators and Accessories

- Creates a culture environment for optimal cell growth
- THRIVE active airflow, incorporated into VIOS and Steri-Cycle platform, provides fast recovery of all parameters (under 10 minutes) and excellent temperature uniformity ( $\pm 0.3^{\circ}\text{C}$ ).
- Decontamination cycles up to  $180^{\circ}\text{C}$ , depending on platform
- Electro-polished stainless steel or optional 100% pure copper chamber
- Condensation free system to reduce the risk of contamination
- New: Thermo Scientific™ Cell Locker™ System for improved sample uniformity, protection and flexibility



## Floor Centrifuges and Rotors

- From low-speed, large capacity centrifuges to super and ultra-speed models
- Featuring innovative technologies: Auto-ID instant rotor identification, Auto-Lock™ rotor exchange, ClickSeal™ biocontainment lids and Fiberlite™ carbon fiber rotors
- Broad selection of rotors for multiple applications
- Up to 8 x 2 litres sample volume
- RCF up to 1 M x g



## Refrigerators, Freezers and Cryopreservation Systems

- Short, medium and long-term sample storage
- Comprehensive portfolio from  $+4^{\circ}\text{C}$  refrigerators to  $-196^{\circ}\text{C}$  cryogenic freezers and transport systems
- Capacity from 145 to 2,100 litres
- Outstanding temperature recovery time
- Natural refrigerants

## Wireless Monitoring Systems

- 24/7 monitoring and reporting conditions in real time: temperature ( $-196^{\circ}\text{C}$  to  $+350^{\circ}\text{C}$ ), relative humidity (RH), differential pressure (clean rooms), CO<sub>2</sub> concentration, 4-20 milliamps, dry contact state, light on/off
- Secure logging of data, warning alerts



## Orbital Shakers

- Outstanding drive mechanisms provide continuous 24-hour operation and allow you to shake large and uneven loads, smoothly and uniformly
- Easy-to-use controls are designed to view all parameters simultaneously to prevent risk of error while establishing running conditions
- Auto platform stop when the lid is opened for user safety
- Market-leading warranty of 2 years full, 5 years parts and 10 years drive mechanism

# Water & Laboratory Products



## Temperature Control

### Water Baths

- Rugged, high-performance general purpose, shaking and circulating water baths for water temperatures from ambient to 100 °C
- Capacity from 2 to 89 litres
- Bead compatible baths available, ideal for cell culture

### Circulators

- Cooling / heating with temperature range from -50 °C to 300 °C
- Compact design with maximum capacity
- Energy-saving operation
- Ease of use



## Temperature Control

### Laboratory Chillers

- Cooling capacity from 250 W to 1.9 kW
- A safe, economical and environmentally friendly replacement for tap water cooling
- Ideal for condensers, rotary evaporators and small analytical equipment

### Recirculation Chillers

- Cooling capacity from 1 kW to 21 kW
- Highly configurable, robust and reliable air and water cooled chillers for 24/7 operation
- Wide range of options available
- Ideal for critical applications including larger analytical equipment



## Water Purification Systems and Cartridges

- Water systems for highest application needs as well as daily routine
- From 15 litres per day
- Type 1 ultrapure, type 2 pure, reverse osmosis systems
- Clinical water systems for analysers
- Cartridges for demineralised water



## Heating Equipment

### Microbiological Incubators

- From small benchtop incubators to large floor models
- Decontamination routine
- Dual convection technology

### Refrigerated Incubators

- Includes Peltier technology

### Environmental Chambers

- Can offer a combination of heat, humidity, light and CO<sub>2</sub>

### Ovens and Furnaces

- Heating and drying ovens for up to 330 °C
- Vacuum ovens for up to 400 °C
- Muffle furnaces for up to 1,200 °C



## Water Analysis Instruments

- Electrochemical sensors for measuring pH, ORP, ISE, conductivity and dissolved oxygen
- Intuitive benchtop or portable Instruments for laboratory or field applications with flexibility, easy-to-use features and multi language displays
- Potentiometric automated titrators for pH, redox and ion measurement
- Visual and UV/Visual Spectrophotometers, colorimetry and turbidity meters with associated reagents
- Process sensors and monitors to measure and control pH, ORP, conductivity, resistivity, DO, ozone, free chlorine, and turbidity at the point of need
- Dedicated analysers delivering process analysis at the line for fluoride, chloride, sodium, ammonia, calcium and silica



## Benchtop Laboratory Essentials

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

## Vacuum Concentrators

- Thermo Scientific™ Savant™ SpeedVac™ vacuum concentrators for removal of solvents or sample concentration
- 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

# Laboratory Plastics & Liquid Handling



## Manual Pipetting Systems

- Industry-leading pipetting systems for any application
- Thermo Scientific™ F1-ClipTip™ Pipettes provide a complete seal on every channel with tips that lock in place with a light touch
- Thermo Scientific™ FinnpiPETTE™ F1 Pipettes offer ergonomic comfort and safe accurate performance
- Thermo Scientific™ FinnpiPETTE™ F2 Pipettes are robust, durable, sleek and fully autoclavable
- Thermo Scientific™ ART™ barrier Universal pipette tips seal completely to prevent contamination of the pipette and cross contamination of samples
- Thermo Scientific™ Finntips™ and Finntip Flex tips for optimal performance with FinnpiPETTES



## Dispensers

- Thermo Scientific™ Multidrop™ Combi and Pico enable precise, high-throughput dispensing
- A choice of models provides dispensing from 11pL to 2500uL
- Accommodates microplates from 6 to 1536 wells
- The Multidrop Pico dispenser allows miniaturisation of qPCR volumes and automated serial dilution to picolitre levels
- Easy to set up, use and maintain



## Electronic Pipettes

- The productivity of an automated instrument in the palm of your hand
- Index-finger pipetting action, electronic tip ejection provide ideal user comfort
- Single and multi-channel options
- Perform sample transfers between virtually any tube, rack or microplate with the Thermo Scientific™ E1-ClipTip™ Equalizer Pipette
- Connect to your computer via Bluetooth and use the My Pipette Creator app to write, download and share protocols



## Automated Liquid Handling Systems and Tips

- Thermo Scientific™ Versette™ is a user-friendly liquid handler in a compact format which supports 96/384 plate replication, plate stamping and serial dilution procedures
- Thermo Scientific Automation Tips for all known pipetting systems
- Thermo Scientific™ MSIA™ (Mass Spectrometric Immunoassay) ready-to-use microcolumns for analytical affinity purification



## General Labware

- Beakers
- Cylinders
- Erlenmeyer flasks
- Laboratory bottles
- Carboys
- Drop-dispensing bottles and wash bottles
- Tubing and tubing systems
- Wide range of materials and sizes
- Plastic labware is less likely to break or shatter than glass



## 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
- Polystyrene jars from 30-350 ml
- Loops and spreaders
- Thermo Scientific™ Sterilin™ Dippas™
- Polystyrene urine tubes



## Filters

- 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 available with membrane types: Nylon and cellulose acetate
- Water quality membranes

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



## Packaging

- Guaranteed leakproof, 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
- Diagnostic bottles
- IP2 bottles
- Micro packaging vials
- Narrow and wide-mouth bottles
- Dropper bottles
- Square bottles
- Media bottles
- Teflon™ bottles
- Range of materials: LDPE, HDPE and FLPE bottles, autoclavable PPCO, FEP and PFA bottles, as well as presterilised PET and PETG bottles



## Sample Storage

### Collect:

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

### Seal:

- Automated and manual decapping systems
- Thermo Scientific™ SepraSeal™ Mats
- Heat sealers

### Track:

- 2D Barcode readers

### Store:

- Cryoboxes and freezing containers
- Universal latch racks



## Immunology Microtitre Plates

- Broad range of surfaces and formats
- Covalent and affinity binding
- Colorimetric assays and ELISA
- Solid phase and liquid phase assays
- Luminescence and fluorescence assays
- Custom capabilities
- Technical expertise

unity lab services

 [unitylabservices.com](http://unitylabservices.com)

## Service and Support

Whether you require support on one instrument or a whole fleet, we provide superior services and support that get you up and running faster.


- Service plans with 50% faster response time and 30% less downtime\*
- Extended warranties
- Preventive maintenance and repair
- Compliance and calibration services
- Parts, consumables, software, and accessories
- Consultative services
- Asset management
- Supply management
- Scientific support solutions


\*Internal records suggest that proactive, annual preventive maintenance can reduce the number of instrument repairs by up to 50% and decrease instrument downtime by as much as 30% when compared to ad hoc time and materials repair visits.



## Technical Support Europe


Contact our technical support specialists to help you make the best use of our laboratory products:

 Laboratory Equipment and Consumables

 **00800 1234 9696** (free hotline) or **0049 6184 90 6321**  
Monday to Friday, 8 am to 5 pm (CET)

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 [techsupport.labproducts.eu@thermofisher.com](mailto:techsupport.labproducts.eu@thermofisher.com)

 Laboratory Equipment  
Water and Laboratory Products

 [techsupport.labequipment.eu@thermofisher.com](mailto:techsupport.labequipment.eu@thermofisher.com)



**thermo** scientific

**Australia** +61 39757 4300

**Austria** +43 1 801 40 0

**Belgium** +32 9 272 54 82

**China** +800 810 5118 or  
+400 650 5118

**France** +33 2 2803 2180

**Germany national toll free** 0800 1 536 376

**Germany international** +49 6184 90 6000

**India toll free** 1800 22 8374

**India** +91 22 6716 2200

**Italy** +39 02 95059 552

**Japan** +81 3 5826 1616

**Netherlands** +31 76 579 55 55

**New Zealand** +64 9 980 6700

**Nordic/Baltic/CIS countries**

+358 10 329 2200

**Russia** +7 812 703 42 15

**Spain/Portugal** +34 93 223 09 18

**Switzerland** +41 44 454 12 12

**UK/Ireland** +44 870 609 9203

**USA/Canada** +1 866 984 3766

**Other Asian countries** +852 3107 7600

**Countries not listed** +49 6184 90 6000

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