

**CHEMISTRY
LIFE SCIENCE
& SUSTAINABLE
SOLUTIONS**

2023



**AN
INTRODUCTION
TO GPE SCIENTIFIC**



LABORATORY EQUIPMENT SPECIALISTS

LEADING BRANDS

DISTRIBUTED AND MANUFACTURED

ABOUT US

GPE Scientific is an award winning leading manufacturer and distributor of Chemistry and Life Science laboratory equipment, including our energy efficient Sustainable Solutions portfolio of products and our specialised glass components for the industrial, laboratory and research markets.

We are the owner and manufacturer of the J Young range of research products including the J Young NMR valves and high vacuum greaseless stopcocks and also have our own team of highly experienced scientific glassblowers who can produce your specialised laboratory glassware requirements.

established

since 1962

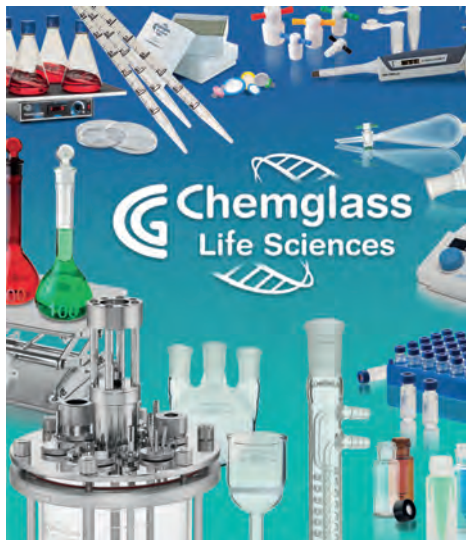
experienced

over 50 years

exclusive

products available
only from GPE

We are the exclusive distributor for the Chemglass range of laboratory equipment, supplying thousands of products to laboratories across the UK and Ireland.



CG-1318

Microcarrier spinner flasks promote optimal growth of suspension and microcarrier cultures. Indented bottoms, 100mL thru 1000mL, prevent accumulation of microcarrier beads under the impeller paddle. The complete system includes a flask with two angled sidearms and a PTFE paddle with glass shaft that adjusts through the compression fitting in the cap.



CG-1318

Adapters permit the connection of standard laboratory dram sample vials directly to the vapor tube or a bump trap of a rotary evaporator.



CG-1991-P

Reaction PIE-BLOCK is designed to fit directly on 135mm diameter circular top hot plate stirrers. Versatile design of the safety pie plate holder allows up to four pie wedges on one hot plate and securely locks them together.



Testimonial



Sean Creedon
Loughborough University

We purchased 15 complete 11,000mL Chemglass reactor systems from GPE Scientific for the new STEM teaching labs at Loughborough University

We were kept thoroughly informed of delivery schedules in advance of the installation, which was carried out efficiently and without problem due to the professional way in which the technical staff at GPE Scientific work.

The technical support GPE Scientific have provided since the installation has also been first class, we would not hesitate to recommend GPE Scientific to others as a supplier of chemistry reactor systems.

Filter Reactor

Jacketed Systems Available up to 65L

CG-1959

The Jacketed Filter Reactors can be used for single or multistep reactions and filtrations in the same vessel and large scale peptide synthesis.

The filter base eliminates material transfers and significantly reduces losses.

The complete reactor system is supplied on the ChemRXNHub stand.



Process Filter Reactor, Complete, Electric Motor

1 Litre

Process Filter Reactor, Complete, Electric Motor

2 Litre

Process Filter Reactor, Complete, Electric Motor, Overall Height, W/Motor 74", Clearance Below Valve - 19.4" (Jacketed or Unjacketed)

10 Litre

Process Filter Reactor, Complete, Electric Motor, Overall Height, W/Motor 73.8", Clearance Below Valve - 19.4" (Jacketed or Unjacketed)

20 Litre

Jacketed Reactor

Now with NEW 150L Model

CG-1968

The Jacketed Process Reactors from Chemglass range from 10L to 150L cylindrical vessels.

The improved support clamp auto-centers reactor and lidd allows quick installation/removal of reactor vessel.

The reactors can come with either an electric or air motor and have a variety of component and accessories which can be added to suit your needs.



Process Reactor, Complete, Air Motor, height with motor - 69", Clearance Below Valve - 15.3" with Manifold with M16 circulator fittings

10 Litre

Process Reactor, Complete, Air Motor, height with motor - 69", Clearance Below Valve - 15.3"

20 Litre

Process Reactor, Complete, Air Motor, height with motor - 90.8", Clearance Below Valve - 16.2"

50 Litre

Process Reactor, Complete, Electric Motor, height with motor - 100.1", Clearance Below Valve - 10.2"

150 Litre

Benchtop Reactor

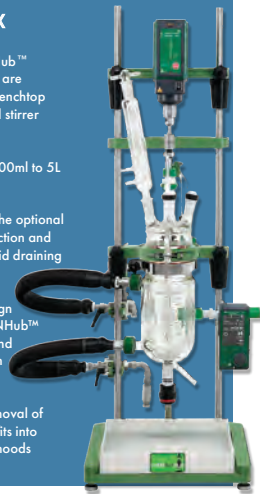
CG-1949-X

The ChemRXNHub™ process systems are complete with benchtop stand, overhead stirrer and glassware.

Ranging from 300ml to 5L vessels.

Available with the optional manifold connection and heat transfer fluid draining system.

The unique design of the ChemRXNHub™ support stand and clamping system allows for quick and easy installation/removal of glassware and fits into most benchtop hoods



ChemRXNHub Process System, Complete w/glassware and stand, digital overhead stirrer

300 ml

ChemRXNHub Process System, Complete w/glassware and stand, manifold/ drain system with digital overhead stirrer

500 ml

ChemRXNHub Process System, Complete with Glassware and Stand, Manifold/Drain System

2 Litre

ChemRXNHub Process System, Complete w/glassware and stand, manifold/ drain system with removable remote

5 Litre

NEW - "Squatty" Process Reactor

With NEW 400mm Flange
NEW Squatty Design

CG-1968-W9100

Complete 100L Squatty Reactor System Features:

- More Clearance:
100L Squatty Glass Reactor System with 400mm Flange Maximizes Clearance Under The Drain Valve
- Wider Access:
400mm ID Flange Provides Wider Access For Insertion of Probes, Baffles and Other Accessories without Interfering with Agitators
- Heavy Duty:
2" Diameter Solid Stainless Steel Uprights and Heavy Duty PTFE Coated Aluminum Fittings Provide Maximum Strength and Chemical Durability
- Digital Temperature Monitor
- Heavy Duty Chemically Resistant Frame: Universal Motor Mount for Electric, Air, or XP Motors: Design Provides Greater Accessibility



CHEMRxnHUB Dual & Triple Support Stands



CG-1949-X DUAL

CG-1949-X TRIPLE

This unique stationary reactor stand is designed to fit into most benchtop hoods.

The stand provides support for the Reaction Vessel(s), Glassware, Overhead Stirring Motor, and Temperature Monitor and the unique design allows easy removal/installation of the glassware.

The stand also includes a removable spill tray.

Reactor Accessories



CG-1968-A-01



CG-1968-B

NEW Zero Dead Space Valve

CG-1968-Q



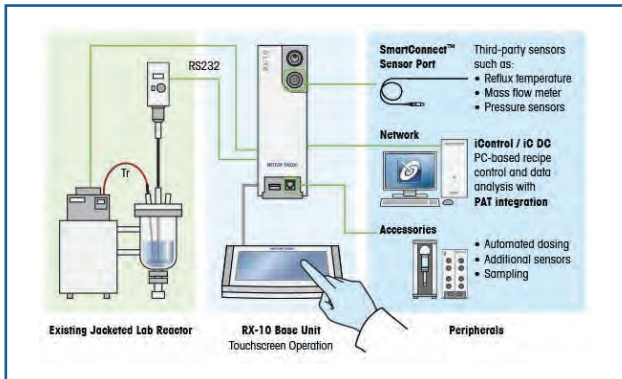
RX-10 Reactor Control - Enhance the Jacketed Lab Reactor

The RX-10 provides an interface connecting any type and volume of jacketed reactors to cryostats, thermostats, stirrer motors, and sensors. Allowing researchers to precisely control and monitor chemical reactions and processes in the lab or kilo lab environment

The intuitive touchscreen automates the most commonly used unit operations, such as heating, cooling, dosing, pH measurement, and sampling.

For more demanding processes, control capabilities can be extended using the computer-based iControl software which offers programmable reaction sequences including parallel parameter control. This facilitates process scale-down/scale-up with realistic conditions, remote monitoring, reporting, and seamless integration with Process Analytical Technology (PAT) tools.

By offering repeatable controlled conditions for dosing, pH, or temperature profiles, RX-10 enables improvements in yield, selectivity, and product quality.





With the new **MAGIO** series, JULABO is expanding its product portfolio of high-end bridge mounted circulators, refrigerated and heating circulators

We are pleased to offer the full Julabo range of Temperature Control Systems and accessories.

Today Julabo is an industry leader and has played a significant role in the development of fluid-based temperature control.

The team of expert engineers and technicians at Julabo help shape the market with new ideas and innovations.

Heating
Circulators

PRESTO
Temperature Control

DYNEO
Heating Immersion Circulator

Recirculating
Coolers

CORIO
Laboratory Circulators





First To Market
Energy efficient
Safer and cheaper to run.

Working with the University of Cambridge, Genlab has developed units that represent a novel, sustainable solution to glassware drying. In addition they're much easier to use.

Key features:

- Fully insulated with adjustable vent cover
- Integral 7 Day timer with display
- Digital controller with fixed over-temperature safety cut-out
- Adjustable shelf runners with removable chrome shelves
- Lockable castors on the 425 and 885 litre models
- Easy clean powder coated body with toughened glass doors

Benefits & Cost Savings:

- Low energy consumption - **50% lower than traditional cabinets**
- Low heat output - reducing air conditioning costs
- Fully insulated - safer for end users
- Easy, specific temperature controller
- Integral programmable 7 day timer - ON/OFF to reflect your needs
- Convection or fan - heat up time < 1 hour



e³

E3 fan units are able to remove approximately double the moisture of a convection unit, the time taken to dry a load is therefore halved.

As a result the energy used to dry a load is actually lower for a fan unit compared to a convection unit.

E3 is our market leading brand for scientifically developed, cutting edge, sustainable, eco-friendly products.

Whether you are a single laboratory needing to buy greener and smarter, or a larger organisation concerned with reducing overall running costs, Genlab E3 can provide the solution that's best for you.

IWC-425



IWC-885



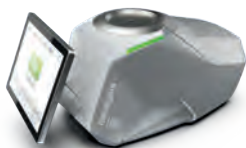
IWC-200



IWC-100



GPE Scientific are proud to be working with Nanalysis to be the exclusive UK and Ireland supplier of the NMReady™ portable benchtop NMR spectrometer.



NEW 100e

Our revolutionary benchtop NMR spectrometer, the NMReady-60, allows chemists, researchers, engineers, and students to perform spectroscopy tests wherever and whenever they need.

Whether you are in the lab or in the field, the NMReady-60 portable NMR gets you the spectroscopy data at your point of need.

NMReady 60 Pro

NMReady 60e



The instrument's supported nuclei are 1H, 7Li, 11B, 13C, 19F and 31P (dual mode).

The instrument's supported nuclei are 19F, 1H and Dual Mode (19F and 1H).



NEW 100PRO

The powerful 100e is based on the world's strongest compact NMR magnet platform - 2.35T (corresponding to 100 MHz 1H NMR!)

SIMPLE OPERATION

EASY TO INSTALL

SAFE, ACCURATE AND FAST

Introducing the affordable, easy-to-use AUTOsample-60

The AUTOsample-60 mounts on top of any NMReady-60e or 60PRO for painless interconversion between autosampler and manual mode, while still maintaining the notably minimal footprint.

Data acquisition and processing is controlled at the touch of a finger through the onboard software.



NORELL®

Precision NMR/EPR Tubes & Accessories



GPE Scientific is the exclusive UK and Ireland distributor of Norell NMR Tubes. We supply the full range of NMR Tubes and accessories including the popular range of Select Series tubes specifically designed for high resolution NMR and the Standard Series for auto-sampling and high throughput NMR.

We realise that the last thing you want is to repeat a run because of shimming problems caused by a faulty NMR tube. Or worse, during use, your tube ends up breaking because of poor tube dimension.

With Norell NMR tubes you are guaranteed superior quality and remarkable performance.

Standard Series - Class B Glass



Select Series - Class A Glass / Pyrex



Secure Series - Available in Class A / Class B



Special Purpose



Sample Vault



5mm Ultra-Precision, High-Precision and Precision NMR Sample Tubes
 5mm Economy High-Throughput NMR Sample Tube
 10mm Ultra- Precision and Precision NMR Sample Tubes
 10mm Economy NMR Sample Tubes

5mm Ultra Precision NMR Sample Tubes
 3mm Ultra Precision NMR Sample Tubes
 3mm High-Throughput NMR Sample Tube
 10mm Ultra Precision NMR Sample Tubes

5mm Ultra-Precision NMR Sample Tubes Secure Series
 3mm Ultra-Precision NMR Sample Tubes Secure Series
 5mm Ultra-Precision, High-Precision & Precision NMR Sample Tubes
 5mm Economy High-Throughput NMR Sample Tubes

Constricted NMR Tubes
 Amberized NMR Tubes
 Screw-Cap NMR Tubes
 Heavy Wall and Medium Wall NMR Sample Tubes
 Bruker MATCH™ System NMR Sample Tubes

Sample Vault Series NMR Tubes
 Medium Wall and Heavy Wall Sample Vault Series™ NMR Tubes
 Sample Vault™ Caps for the Sample Vault Series
 Closures to Seal the NonLoc Open Port Caps



J Young

GPE Scientific manufacture
Vacuum Manifolds / Schlenk Lines
on site using the official J. Young
High Vacuum PTFE valves.

The J Young high vacuum greaseless
stopcocks incorporate three Viton
O-ring seals (one encapsulated in PTFE)
on a standard PTFE piston.

Our stopcocks are leak tested to better than
10⁻⁶ ltr/sec and are suitable for use in
applications up to 7 PSI.

Alternatively these can be manufactured with
glass stopcocks.

J. Young NMR Valve with Tube Attached

Handle your NMR sample without
flame sealing your tubes.

Teflon covered O-Ring eliminates material
incompatibilities and completely greaseless Teflon
assembly means the tube is easy to use and to
disassemble for cleaning.

Includes female joint for quick attachment
to your vacuum rack.

Available in
Beige,
Blue,
Green,
Orange,
Red
and Yellow.

REDUCED LENGTH NMR TUBE WITH
J. YOUNG VALVE NOW AVAILABLE



Available lengths:
5 inch
7 inch
8 inch



SCHLENK LINES

General Purpose Single Bank
Manifold



General Purpose Single Bank
Manifold with Vacuum Gauge



Space Saving Manifold



Dual Bank Manifold



Dual Bank Manifold
with Oblique Valves



Dual Bank Offset
Manifold





vacuubrand

Technology for Vacuum Systems

VACUUBRAND manufactures the most comprehensive range of vacuum pumps, gauges and controllers for rough and fine vacuum for laboratory use.

The modular vacuum systems comply with the technical and economical requirements for vacuum generation and also ecological criteria in outstanding degree.

Diaphragm pumps

The VACUUBRAND diaphragm pump line includes pumps with a wide range of flow rate and ultimate vacuum.

- Single-stage diaphragm pumps reach as much as 70 mbar (absolute) vacuum.
- By connecting pump heads in series of two, three or four stages, we can create pumps with ultimate vacuum reaching 0.3 mbar on some models.
- Connecting the heads in parallel produces higher flow rates.



Vacuum gauges and controllers

VACUUBRAND offers a comprehensive range of electronic measuring instruments for laboratory and industrial use, as well as controllers for rough and fine vacuum to regulate from atmospheric pressure down to 10⁻³ mbar.

Modern vacuum gauges and controllers in laboratory and industry must meet high requirements.

- Consistent chemical resistance in the wetted area
- Plug and play - tailor-made and easily configurable components due to VACUU-BUS®
- Open interface architecture for system integration



Chemistry diaphragm pumps and -pumping systems

Our chemistry diaphragm pumps are available in a full range of volume flow rates and ultimate vacuum options.

- Single-stage models reach as much as 70 mbar (absolute) vacuum.
- Connecting pump heads in series as two-, three- or four-stage pumps improves an ultimate vacuum to as much as 0.6 mbar.
- Connecting heads in parallel provides higher flow rates.
- Our line offers combinations that satisfy virtually any laboratory need.



VACUUBRAND pumps combine these options to create pumps with the capabilities you need for most applications.

NEW VACUU-PURE PUMP

10-3 mbar vacuum range
100% oil-free
No abrasion
No wear parts

VACUU-PURE reliably delivers the benefits of oil-free vacuum technology in the pressure range of 10-3 mbar. The special design with two cantilevered spindles and a magnetic gear allows hydrocarbon-free operation. The unique design of VACUU-PURE gives it an exceptionally high condensate compatibility, making a gas ballast unnecessary even at high vapor loads. The spindles run contact-free and are thus free of abrasion.



Fluid aspiration systems

Safe, sensitive and efficient aspiration of supernatants in all application areas.

- The BVC basic is intended for connection to an external vacuum source.
- The BVC control and the BVC professional are equipped with a high performance, chemically resistant diaphragm pump.
- The vacuum level and thus the suction force at the hand control can be sensitively adjusted via a touch panel.
- In addition, the BVC professional features a non-contact liquid level sensor and self-closing quick couplings (4l PP bottle version).
- All systems are available either with a vacuum-resistant, autoclavable 4l PP bottle or with a 2l borosilicate glass bottle, e.g. for working with aggressive disinfectants such as chlorine bleach.



Rotary vane pumps and chemistry-HYBRID pumps

Rotary vane pumps are used whenever it is necessary to have a process vacuum of up to 10-3 mbar. VACUUBRAND rotary vane pumps are high-performance, yet compact, and can be equipped with an extensive line of VACUUBRAND accessories.

They have an innovative lubrication system with a built-in oil pump and have a large oil volume. This extends oil change and service intervals and protects the pump at start-up. The effective gas ballast feature, with its high-flow gas ballast, provides high vapor pumping capability for water and solvents.



NEW & UNIQUE to GPE - High Vacuum Pump Trolley

Designed to maximise space and provide flexibility in the lab
Vacuum pump is attached to the baseplate securely using anti vibration feet - bespoke fixing points available so our unique base plate can be matched to any pump
Reinforced, lockable fixings for the Cold Trap
Easy to transport around your laboratory, preventing the need to dismantle and reassemble elsewhere
All parts available individually or as part of a package
Polypropylene trolley with stainless steel baseplate





GPE Scientific have partnered with Sciologex Benchtop Equipment to bring you the latest in precision laboratory equipment.

Exclusively offering this wide range of products throughout the UK and Ireland we are able to supply your laboratory with high quality Life Science items such as Multi-Purpose Centrifuges, Liquid Handling products, Hotplates, Stirrers, Mixers and Rollers and many more fantastic items.



Hot Plates

Multi Position

The MS-H-Pro-T features an independent back-lit LCD display for both heat, stirring and timer functions and PID technology. The hotplate will heat at the target temperature for the set time period and automatically turn off.

Magnetic Stirrer

Multi Position

Sciologex offers simple multi-position stirrers that simultaneously stir up to 10 or 16 solutions (depending on the model) at room temperature. A 10-position model also heats as well as stirs. Anti-slip mats guard are both chemically resistant and easy to clean.



Microplate Mixer

Multi Purpose

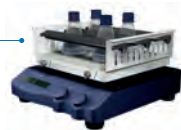
Compact and universal Microplate Mixer can hold one or two microplates, used in life science fields including microbiology, cell and molecular biology, immunology and biotechnology.

Digital Shakers

Orbital & Linear

Orbital and Linear Digital Shakers provide smooth and quiet motions for mixing in culture dishes, flask and beakers.

LCD Digital shakers from Sciologex incorporate a timer, allowing the user to specify the length time required for agitation, and therefore to leave the unit unattended during this time.



Centrifuges

Multi Purpose

The accuracy and sturdiness of Sciologex centrifuges allows them to be used in a multitude of applications, including pelleting of DNA and RNA samples, pelleting of PCR amplified nucleic acids, separation of antibody and protein precipitates, performing enzymatic tests, removing cell debris from cell homogenates, PRF and achieving bacterial and yeast cell fractionation.

Vortex Mixer

SCIOLOGEX Vortex Mixers are ideal instruments for mixing liquid components in tubes, resuspension of cells, using an eccentric mechanism. They are widely used in biological and chemical analysis applications.



Rotary Evaporators



- Easy to read large digital LCD display shows temperature, rotation speed and timer.
- Large 5L/20L heating bath with a temperature range of ambient to 180°C
- Patented condenser provides excellent cooling
- Motorised lift with safety automatic release of the evaporating flask to the top position in case of power failure
- Speed range from 20 to 280 rpm (10-150rpm for 20L)
- Timer function for precise control processing
- Chemical-resistant PTFE seals and patented pressure springs provide excellent sealing
- PC control and documentation of all parameters via USB (using third party software)
- Precise temperature control and adjustable safety circuit
- Quick release connectors for easy flask removal

Unique 20L Features

Clockwise/anticlockwise toggle

Interval operation in clockwise and anti-clockwise direction for drying process

Smooth, silent motorised lift

Switching valve for continuous collection without compromising the system vacuum and solvent distillation





Fume Containment

Specialists in the design and manufacture of industrial and educational laboratory fume cupboards

Entirely custom builds available - please contact us to discuss your requirements.



Energy Saving Products for your Laboratory



LIEBHERR

MERCK



Refrigerators and freezers for the research and laboratory sectors have to fulfil extremely demanding criteria.

With precise electronic controls and degree-accurate temperature settings, Liebherr laboratory appliances, distributed throughout the UK and Ireland by GPE Scientific Ltd are able to offer outstanding temperature stability.

Their comprehensive functions and features ensure that sensitive substances, chemicals, and other research materials can be optimally stored

Our Lab Water purification system portfolio offers a broad range of pure and ultrapure water purification systems and services designed for scientists working in pharmaceutical, clinical, academic, industrial, research, and government laboratories, in both validated and non-validated environments.

Class II Biological Safety Cabinets



The Labogene range of Class II safety Cabinets provide microbiology safety cabinets of innovative design, superb construction and unsurpassed reliability. The cabinets employ energy saving and environmentally friendly components to produce the finest LAF and Biological Safety Cabinets.

Using the latest energy efficient fans, lower energy consumption also results in less heat transmission, both into the work chamber and out in to the laboratory, contributing to significantly reduced overall costs.

In Stock

**Supply,
install and
commission
in 72hrs**



CoolSafe Freeze Driers



New touchscreen controller with regulation of temperature, pressure and time.

- Freeze-drying with programming and storage of protocols for full research and method development.
- Wide choice of manifolds, chambers with heated shelves and accessories to suit your sample requirements.
- Available with 4-litre condenser capacity and temperature options of -55°C or -110°C and condenser ice capacity of 2.5 kg/24 hours - max. 3 kg in total.
- Available with 9-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 4 kg/24 hours - max. 7 kg in total.
- Available with 15-litre condenser capacity and temperature options of -55°C or -95°C and condenser ice capacity of 6 kg/24 hours - max. 10 kg in total



Bigneat is an established world-leading designer and manufacturer of ductless fume hoods, laboratory safety cabinets, enclosures and clean air systems for protection from chemical fumes, powders and biological hazards.

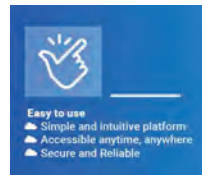
Applications for Bigneat products embrace operator and process/sample protection during laboratory procedures, batch and on-line production processes. "The world's No 1 manufacturer of enclosures for laboratory automation"

Logical Wireless Solutions



Logical Wireless Solutions offers a range of monitoring solutions aimed at saving organisations time and money through automation.

Logical Enterprise is our Scalable IoT Solution for Monitoring Critical Assets and Environments. Our selection of Long Range (LoRa) sensors allow us to build tailored solutions perfectly suited to your business needs.





A&D's core technology of analogue and digital conversion enables us to understand and utilise information within the environment.

With this competency, we provide tools using precision measurement and controlling technology and assist customers to create added value and contribute to the development of industry and healthy living.

A&D electronic balances provide a weighing performance that is very reliable, accurate and provides great value.

The NEW BA Borealis





ARCTIKO PF 700®

**Biomedical Freezer with
glass door UPRIGHT**

CAPACITY 628L

L RANGE -10 / -23 °C

The PF 700 freezer -23°C is suitable for pharmacies due to the flexible interior and different options of shelves and drawers or a combination of those.

It is user-friendly because of the adjustable shelves, a reversible door as well as automatic defrost and automatic door closing.

The PF 700 freezer has a glass door, which allows the best overview of the inside. Furthermore, the advanced Arctiko controller ensures a stable temperature and it is equipped with many alarms, which all come as standard.



ARCTIKO CRYO 230®

Cryogenic freezer

CHEST CAPACITY 233L

L RANGE -150 / -140 °C

The CRYO range features a dual cooling system comprised by two independent systems offering double security.

In the unlikely event that one cooling system should fail, the second cooling system will maintain the freezer at -130°C.

The CRYO 230 offers a wide variety of research and long-term storage applications for low temperature scientific experiments, preservation of cells, DNA, bone material, bacteria, etc.

With its superior cooling precision and features, the CRYO 230 the perfect choice for testing special material, ideal for hospitals, university laboratories, military industry or sanitation stations.



ARCTIKO ULUF 590-2M®

Ultra Low Temp. Freezer - Double

Security UPRIGHT CAPACITY 556L

RANGE -90 / -40 °C

The ULUF 590-2M freezer -90°C features our dual cooling system, that consists of two independent systems offering you the best security. In case of any failure with one of the cooling systems, the other system will still maintain the temperature at -80°C.

Thereby, your samples will not be affected by any challenge caused by an unexpected system failure, until service is provided.

This is possible due to our highly reliable single compressor technology.



RR
ErreDue^{s.p.a.}



GN INOX
Nitrogen generators

GN INOX NITROGEN GENERATORS

A Nitrogen generator designed to guarantee a constant, pure (up to 99.999%) flow of gas for any application where a particular attention to hygiene is requested, besides the extremely high gas quality.

For this reason, the Nitrogen generator GN INOX, thanks to its stainless steel finishing, can be sanitized with standard procedures and can be integrated into MAP packaging machines or used in sterilized environments for pharmaceutical production.



GALILEO
Nitrogen generators

GALILEO NITROGEN GENERATORS

Work in complete autonomy, producing only the requested amount of gas with no waste.

GALILEO is available in five models with different flow rates and different purity levels, to satisfy every laboratory's need.

One of the unique advantages of GALILEO generators is the modularity, which allows users to increase production in case of need, simply by adding one or more modules.



GEMINI
Oxygen generators

GEMINI OXYGEN GENERATORS

Use the PSA technology to produce a continuous pure Oxygen flow, without the use of chemicals.

The GEMINI generator requires just electric current and compressed air to produce Oxygen.

One of the unique advantages of GEMINI generators is the modularity, which allows users to increase production in case of need, simply by adding one or more modules.



ORION P-SERIES
Pure air generators



MARS
Hydrogen generators

MARS HYDROGEN GENERATORS

Use PEM technology (Proton Exchange Membrane) which allows the production of compressed, extremely pure Hydrogen without the need for external purification nor compression systems.

MARS Hydrogen generators are just fed by distilled water and electric current, no caustic solutions are used.

MARS Hydrogen generators don't require any maintenance and are safe and reliable.



ORION Z-SERIES
Zero air generators

ORION Z-SERIES

Zero air generator produces a continuous flow of air with a minimum content of hydrocarbons, directly on site without any waste.

ORION P-SERIES

Pure air generator produces pure, hydrocarbon free and dry air, with a very low dew point (-50°C).

General plant research applications
 Plant pathology research
 Arabidopsis research

Drosophila research
 Entomology
 In vitro plant growth studies

Plant tissue culture
 General incubator applications
 Seed germination studies

PLANT GROWTH CABINETS



Hettich Benelux - PRC 1200 WL*

- Exterior dimensions: 905 x 1295 x 2050 mm (w x d x h).
- Internal volume: 968 liters.
- Exterior / Interior: white / stainless steel white coated.
- Humidity system: ultrasonic (optional).
- Growth area: 3 shelves (875 D x 625 W mm = 1.65 m²).
- LED's : 200 µMol, 400 µMol or 1100 µMol.
- Growth height at 3 LED layers: 400 mm



Hettich Benelux - PRC 1200 SL*

- Exterior dimensions: 910 x 1295 x 2050 mm (w x d x h).
- Internal volume: 968 liters.
- Exterior / Interior: white / stainless steel white coated.
- Humidity system: ultrasonic (optional).
- Growth area: max. 15 shelves (875 D x 625 W mm = 9 m²).
- LED's : 200 µMol (optional 400 µMol)



Hettich Benelux - PRC 1700 WL**

- Exterior dimensions: 2070 x 950 x 2070 mm (w x d x h).
- Internal volume: 1522 liters.
- Exterior / Interior: white / stainless steel white coated.
- Humidity system: ultrasonic (optional).
- Growth area: 3 shelves (600 D x 1300 W mm = 2.34 m²).
- LED's : 200 µMol, 400 µMol or 1100 µMol.
- Growth height at 3 LED layers: 490 mm.

* PRC 600 WL, 1200 WL and 1200 SL: air cooled cooling system.

** PRC 1700 WL, 3200 WL: water cooled cooling system.



Environmentally friendly, economical and well designed, the HettCube Range of incubators will benefit both your balance sheet and the environment, as well as providing optimum growth conditions for your cultures.

HettCube Incubators



HettCube 400 | 400 R

Flagship Incubator.

Energy efficient, quiet, and exceptionally manufactured, the HettCube 400 range is the industry standard for high quality incubation.



HettCube 600 | 600 R

Unmatched Footprint.

The HettCube 600 range has a highly impressive 520L internal space for its 0.6m² footprint. An incredible 67% (351L) of this is validated usable volume.



HettCube 200 | 200 R

Height Saving Incubator.

Can be floor standing, stood on bespoke Hettich drawers, or stacked one on top of the other. Optimal for labs considering vertical footprint.

Standard versions range from +1 °C above RT to +65 °C
"R" models can cool down to 0 °C

Cryotherm® Cryogenic Storage Solutions

With 55+ years of ice-cold experience, Cryotherm are experts in the production of cryogenic storage solutions. GPE are proud to supply Cryotherm for the UK and Ireland.

Upgrade your life science with german-manufactured smart storage



**APOLLO® and STELLA®
Liquid Nitrogen Storage**

- Highly efficient - minimal evaporation rates.
- Low maintenance requirements.
- Optimised superinsulation.
- Footprint-efficient design.



**BIOSAFE®
Smart Cryocoolers**

- Minimal consumption, maximum volume.
- Simple monitoring with BIOSAFE® Smart.
- Biobanking 4.0 via SMS or email.
- From tiny to gigantic - wide range of volumes.



**SIRIUS® Large Engineered
Liquid Nitrogen Storage**

- Up to 2000L capacity.
- Highly robust - corrosion and cold resistant, and X-Ray & helium leak tested for maximum lifespan.
- High-durability vacuum protection - high quality adsorption & getter materials

Cryotherm[®] Cryogenic Storage Solutions

For Turn-Key cryogenic system projects, we offer the complete solution including design, installation, commission and servicing, fully customised to meet your requirements.

Your cold remains cold - wherever you need it - with superinsulated cryotransfer



**Cryogenic Transfer -
Piping and Phase Separation**

- Minimum evaporation losses whilst reaching point of use
- Multi-layer, computer optimised vacuum insulation
- Up to -269°C usage means liquid helium compatibility.
- Tapping and phase separation at any point of the pipe system



**Cryogenic Transport -
SATURN[®], STRATOS[®] & MERKUR[®]**

- Protection frame and vacuum safety device for secure transport
- 50-3000L liquid nitrogen transport (up to 1000L liquid helium)
- Highest quality adsorption & getter materials and extensive QC means means reliable long-term stability of insulation

Testimonials



This morning Plaxica received a new reactor lid (CG-1946-50) for our system to replace the one which we accidentally damaged.

I would like to thank GPE Scientific for organising a very quick turnaround on this item, it is now installed and ready to resume our research.

Mike Dunning - Senior Chemist

We received a professional technical support followed by precision made glass components which were all made within tight tolerances to our drawings within a few days after the order was placed.

Can anyone ask for more? the price was highly competitive tool
A good supplier to work with.

Uri Friedländer - UNO Boxer Pumps

Many thanks for everyone's help at GPE Scientific for the coaxial needle device you built for us earlier this year.

We have just had a paper on the device and its use published in a journal highly regarded in the microfluidic community, Lab on a Chip.

We also performed numerical simulations that matched the experimental measurements very well.

Again, we are extremely impressed and happy by the quality of the needles and the skill of your glass blowers.

Paul Rademeyer - Oxford University

After a long search looking for a replacement for our discontinued Jencons Autoburettes we were recommended GPE as a company who may be able to help.

After purchasing 4 of their 50ml Glass Autoburettes we were delighted to find they were everything our old Burettes were and more!

Liam Palmer - Laboratory Manager

We have purchased a number of complete Chemglass reactor systems from GPE Scientific over the years including temperature control thermostats.

They have provided a complete technical solution for us, including installation, training and commissioning of the reactor systems. They work in a highly efficient and professional manner and always respond to our queries in a timely manner.

GPE Scientific offer a complete pre and post sales support solution for our needs and provide regular refresher training sessions for all our staff when required. I would recommend them as a supplier of chemical reactor systems.

Duncan Sinclair - Purolite

GPE offer high quality lab glassware and the flexibility to create customised vessels and apparatus which suit our needs.

They come highly recommended to anyone who requires a special glassware design for their research.

**Colin Keyworth
Process Development Manager**

GPE Scientific offer a wide range of products for the Chemistry, Life Science, Sustainable Solutions, Industrial Glass and Glassblowing Sectors.

The Chemistry and Life Science ranges are our largest sections, with over four thousand products online for you to browse and explore.

Our aim is simple; to provide you with a full range of products to suit your needs, at the highest quality.

Not only can you browse all the product information on our website, you can download brochures and technical documents, watch videos and even checkout online to receive a quotation just for you!

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