Advanced instruments for your Chemistry



ChemSPX

A Beun-De Ronde Company

Foreword

ChemSPX is an exclusive distributor of high-end lab instruments in the field of Chemical Synthesis and Purification, where our suppliers play a leading role. All their products are designed to ensure your chemistry.

We can deliver ready-made or custom-made packages from synthesis to purification. Don't hesitate to contact us with your needs. We are always open to discuss your projects and search for the best solution.

Our sales and support Xperts are directly trained by manufacturers to ensure they have in-depth knowledge of our entire product range. This hands-on expertise allows them to provide the best possible guidance and support to our customers.

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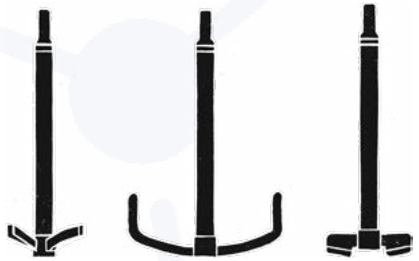
AG!

The AGI Glassplant Sakura Pilot Reactor Family is the next generation of premium pilot reactors. Featuring the latest reactor vessel technology, enhanced performance, and improved efficiency, Sakura and Sakura Mini offer everything you need to scale up your chemical process with ease.

Sakura Pilot Reactor
Premium pilot reactor featuring vessels of up to 100L.

- 50 and 100L double or triple wall vessels
- Cyclone vessel technology as standard
- Ring baffle vessel technology upgrade
- Superior vessel geometry
- High performance stirring
- Liftless stirrer coupling
- Operating temperature: -90°C to +230°C





Reactor-Ready Mini Jacketed Lab Reactor

Small footprint, precise control, confident scale-up



- Vessels from 50 ml to 500 ml
- Ideal for precise temperature control (-70°C to + 230°C
- Allows chemists to begin process development earlier, with added confidence and safety



Ava Software

One Software. Any Reactor. Effortless Automation.

Subscription free automation.

Reactor-Ready Filter Lab Reactor

Synthesise and filter in the same vessel!

- Stirred, temperature-controlled, contained filtrations
- Filter vessels are fully jacketed down to base for accurate temperature control
- Range of jacketed filter vessels in 1 and 2 litre volumes



- Filter assembly allows for efficient solid-liquid separation with minimal hold-up
- Unique filter support plate aligns the base with the vessel for tool-free assembly





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Reactor-Ready™ Pilot Lab Reactor - 5 to 50 litres



Replace multiple reactor set-ups with a single, universal pilot scale system with interchangeable vessels that can be swapped in minutes.

- Range of single jacketed vessels from 5 to 50L
- Range of vacuum jacketed vessels from 5 to 10L
- Self-aligning stirrer
- Temp range of -70°C to + 230°C

Reactor-Ready™ Flex Lab Reactor - 100 ml to 5 litres

Fully modular reaction system Choose from one of our 4 pre-configured packages or create your own system



- Swap vessels in seconds
- Self-aligning stirrer
- Temp range of -70°C to + 230°C
- Configure a system that suits your budget and application

Check pages 20 - 23 of this brochure for our thermostats



The parallel reaction stations help you increase your productivity, save space and keep costs down, among many other benefits.
Radleys has parallel reaction stations for applications such as heating, cooling, condensing, work up, evaporation, inerting, filtration, heating, parallel synthesis, polymer research, process development, refluxing and stirring.

Carousel 6 Plus Reaction Stations™
Simultaneous heating, stirring and reflux of multiple samples.



- Powerful, even stirring in all positions
- Can use up to six vessels simultaneously: 5 to 250 ml
- Round bottom flasks fit straight onto a Rotary evaporator to evaporate your samples directly
- Option for overhead stirring for viscous materials

Carousel 12 Plus Reaction Station™

Simultaneous heating, stirring and reflux of multiple samples.



- Up to 12 tubes, in sizes ranging from 1 to 20 ml
- Removable Fluoropolymer insulation plate, saving up to 36% energy and preventing burns
- Integrated gas/vacuum manifold in the head to enable working under an inert atmosphere
- Integrated reflux head replaces the need for multiple condensers so refluxing in multiple positions is easy

Tornado™ Overhead Stirring System™
Stirring productivity increased by up to 600%.



- Integrates with Carousel 6 Plus to enable overhead mechanical stirring in all positions using a single overhead stirrer motor
- Compatible with all leading brands of overhead stirrer

The range of benchtop and hotplate lab equipment has a whole range of benefits including high safety standards, productivity and cost effectiveness.

You'll find lab equipment that's suitable for the following applications:

- Refluxing
- Stirring
- Condensing
- Heating
- Cooling
- Distillation
- Parallel synthesis
- Inerting



Findenser Air Condenser™
Award-winning alternative to water-cooled condensers



Heat-On™ Block System
Safer alternative to oil baths



Cool-It™ Insulated Bowls Safer and more efficient way of cooling



StarFish™ Work Station
Space saving multi-tasker that increases productivity and cuts costs

Mya 4 Reaction Station
Safer, cleaner, greener, more productive.



- 4 different zones, each with heating and active cooling
- Use one compact system for a range of experiments
- Precise temperature control
- Magnetic or optional overhead stirring
- Accepts a wide range of vessel sizes and styles
- Control your experiments and log results automatically
- Use Mya 4 with or without a chiller

M1: Benchtop to Pilot TFF - Flexible membrane selection

A membrane-agnostic TFF system that comprises the basis of scale-up to 500L.

- Compact TFF system: Benchtop solution for R&D and pilot work
- Flexible membrane selection: Ceramic, hollow fibre, cassettes and flat sheets
- Micro- & ultrafiltration: Flexible separation and concentration workflows
- Scale-up ready: Designed to support scale-up to 500 L
- Precise flow control: Smart bFlow feeding pump
- Gentle processing: Suitable for sensitive biomolecules and biomass
- Modular design:
- Smart & connected: Real-time monitoring and data logging
- Reproducible results: Consistent process data for development and scale-up



MS: Industrial TFF - Flexible membrane selection

Complete downstream and upstream solution with Bionet's TFF systems and bioreactors.

- Industrial TFF system: Designed for large-scale downstream processing
- Membrane-agnostic: Ceramic, hollow fibre, cassette or spiral membranes
- Highly configurable: Adapted to your specific process requirements
- Gentle processing: Pumping technology suited to shear-sensitive products
- Precise process control: Flow, pressure and TMP control
- Automated operation: MARTA software for control, monitoring and data logging
- CIP & SIP ready: Efficient cleaning and sterilisation options
- GMP compatible: Designed for regulated biopharmaceutical production



NEW

Bioreactors: From R&D to production – scalable and flexible

A complete range of single-use and reusable bioreactors, supporting seamless process development and scale-up.

- Broad volume range: From laboratory R&D to pilot and production scale
- Scalable platform: Support process development and seamless scale-up
- Single-use & reusable: Flexible solutions for different process needs
- Microbial & cell culture: Suitable for a wide range of cultivation processes
- Precise process control: Accurate monitoring and control of key parameters
- Advanced automation: MARTA software for control, monitoring and data management
- Flexible configuration: Adaptable vessels, sensors and accessories
- Process-ready design: Supporting reproducible and efficient bioprocessing



F0 Benchtop Bioreactor



F1 Universal Lab Bioreactor



F2 Lab to Pilot Bioreactor



F3 Pilot to Industrial Bioreactor



FS Industrial Bioreactors above 200L or specific requirements

NEW

THALESNano

H-Cube MINI plus

Safe and affordable hydrogenation



- H_2 is generated in situ
- Hydrogenation without cylinders
- Fast catalysed reactions
- Easy to use
- Max 100°C / Max 100 bar

H-Cube® Advance

The future of safe and efficient hydrogenations driven by Next-Generation Water Electrolysis Cells



- Temperature range: 0-150°C
- Pressure range: 0-100 bar
- Number of CatCarts® per loop selector valve: 1-6
- Solvent and reagent flow rate range 0.001-10 mL/min
- Internal H_2 gas flow rate range 1-70 NmL/min
- Built-in Mass Flow Controller (MFC)
- Gas types: Internal H_2 or external supply (O_2, N_2, CO / CO_2)
- Also available in Hastelloy

PhotoCube Plus

Batch and flow reactions in one reactor with several wavelengths



- LED light source with wavelenght range 257 - 650 nm
- Touchscreen-controlled light intensity adjustment
- Simultaneous operation of multiple wavelengths

Phoenix II Flow Reactor

Multifunctional Module compatible with H-Cube Pro™ and H-Genie I and II



- Innovative: performs chemistry up to 450°C & 200 bar (for liquids)- not possible in standard lab reactors
- Simple: 2 buttons and automated touchscreen
- Fast: reactions in seconds
- Versatile: perform reactions in a loop homogeneously or use a range of different catalyst cartridges

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THALESNano

Fast synthesis solutions in Flow

H-Genie II

Safe and powerful hydrogen generator



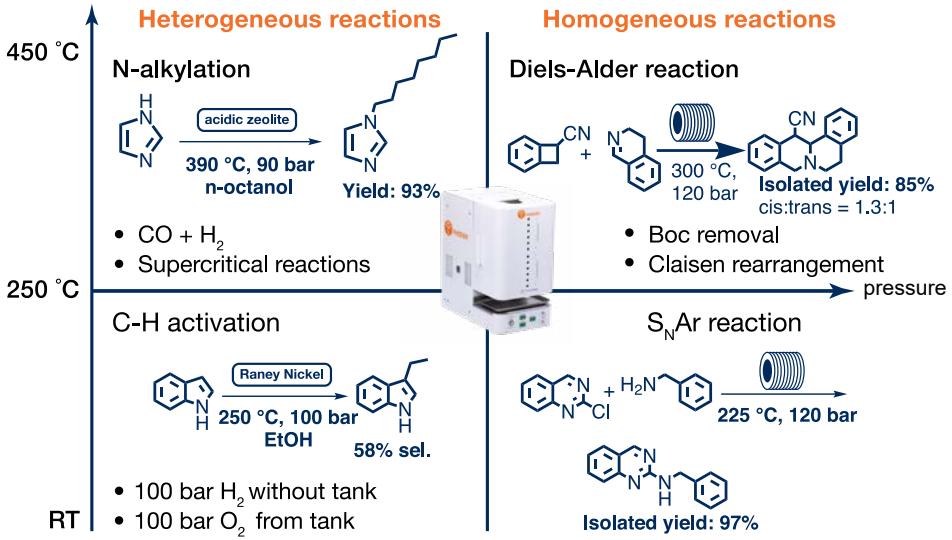
- Expand chemistry in batch and flow with up to 100 Bar of H_2 generated from water
- Accurately log how much hydrogen is used in your reaction
- Up to 1 NL/min of H_2
- Simple and safe

Eliminate the need for regular tank monitoring with the optional **automatic water filler.** Extend run time up to 1 week, monitor water levels, schedule refills, and maintain water quality automatically.



The H-Genie® II **combined with the Phoenix Flow Reactor™** II is an **all-in-one flow chemistry setup** for catalyst screening, synthesis, optimization, and scale-up that fits in any fume hood in any lab.

This combination offers you a wide temperature and pressure range in addition to high pressure hydrogen generated safely without cylinders for your reactions, granting you the capability of synthesizing from milligrams to kilograms of product on the same system.



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ASIA Modular Flow Chemistry

- Reactor temperature: -15°C to +250°C
- Liquid phase reactor volumes: 62.5 µl, 250 µl, 1 ml, 4 ml, 16 ml
- Solid phase reactor volumes: 0.7 ml, 2.4 ml, 5.6 ml, 12 ml
- Flow rate: 1 µl/min – 10 ml/min per pump channel
- Residence times: 1 second to several hours
- Pressure: 0 – 20 bar (300 psi)
- Rapid diffusional mixing
- Production volumes: mg to kg

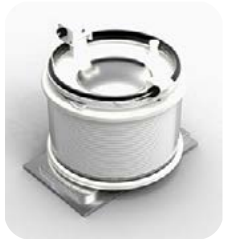


Asia is a modular system. All modules can be acquired separately and arranged in any fashion to add new functionalities on an existing system. **Your system evolves with your needs!**

Glass Microreactors



Tube Reactors



Solid Phase Reactors



Asia Pressure Controller

The Asia pressure controller allows to set the back pressure of the system, which permits solvents to be heated up above the atmospheric boiling point and therefore enables to increase the reaction rates.

- Pressure range: 1 – 20 bar (maximal pressure depends on pressure of gas supply)
- Built-in pressure sensor with an accuracy of 0.1 bar
- Wetted materials: glass and PFA



Flow synthesis
From lab scale to production scale

Asia Syringe pump

The Asia syringe pump provides extremely smooth flow rates and was specifically designed for flow chemistry.



- Each pump module offers two independent flow channels with integrated pressure sensor
- Ultra-smooth flow rate is delivered by each channel of the syringe pump
- Four different syringe volumes for optimal flow rates
- Can operate at pressures up to 20 bar (300 psi)
- User-friendly: easy to operate and to swap syringes
- Extremely chemically resistant: the wetted materials are PTFE and glass

Asia Chip Climate Controller

This module is compatible with a range of glass microreactors, which can be heated or cooled by the integrated Peltier system.

- Temperature range: -15 to +150°C
- Compatible chips: 62.5 µL, 250 µL, 1 ml and micromixer chips
- Wetted materials (microreactor): glass or quartz



Asia Photochemistry module

Access a host of novel continuous photochemistry applications with Asia Photochemistry Reactor.



- Increase the light intensity (up to 108 W) to reduce reaction times and increase production rates
- No external cooling required
- Select from a wide range of wavelengths
- Process parameters are monitored

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Liberty Blue 2.0: New Generation Automatic Peptide Synthesizer

- 4 minutes cycle time (Microwave-assisted Solid Phase Peptide Synthesis)
- 90% waste reduction
- Flex-add™ critical reagent delivery system (patented)
- True Internal fiber-optic temperature control
- 0.005 - 5 mmol scale range



MultiPep 1 & MultiPep 2 Automated Parallel Peptide Synthesizers

The MultiPep 1™ is a highly flexible and economical automated parallel peptide synthesizer.

The MultiPep 2™ is the state-of-the-art automated parallel peptide synthesizer.

- Features unmatched flexibility for screening hundreds of peptides in parallel using plates, columns, or cellulose membranes formats
- Heating option for elevated temperature synthesis in plates and columns
- Fast synthesis with 8 position parallel washing arm
- Vortex mixing
- Pre-activation or in-situ activation

NEW



MultiPep 1™

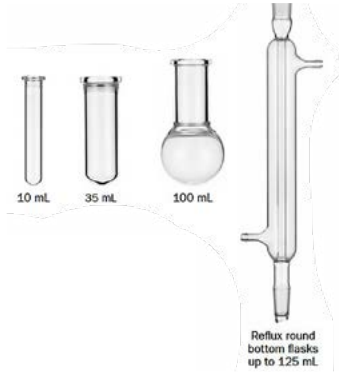


MultiPep 2™

Discover 2.0: The absolute best approach for Chemical Synthesis

- Pressurized vessel sizes for a single-mode microwave - 10ml, 35ml, 100ml
- iWave Temperature Sensor can see through glass, Teflon and Quartz
- Vent and reseal technology for safe handling of over-pressurization (ActiVent)
- Variable speed magnetic stirring and rapid compressed air cooling
- Optional integrated camera to observe your reaction
- Upgrade options: Autosamplers - 12/48 positions; Gaseous Addition, Flow cells







Autosampler

Set up multiple reactions to run overnight with the 12- or 48- place autosampler. Both autosamplers can accommodate the 10 and 35 mL sealed vessels.

Gas Addition Kit



Specially designed for reactions involving gaseous reagents. Perform hydrogenations, carbonylations, or other reactions with gaseous reagents or use the vessel to ensure an inert atmosphere during microwave irradiation.
Allows you to purge the reaction vessel and back-fill with a gas.

During the reaction, the gas source is completely shut off from the microwave, ensuring your safety at all times.

ACCQPrep SFC - Supercritical fluid Chromatography

Green Preparative SFC: Chiral or Achiral Separations in a single, compact solution.
The only system enabling both bulk collection from stacked injections, and multi-sample, open access with an optional SFC AutoSampler.



- Flow rates from 50 to 200 ml/min for use of 2 and 3 cm columns
- Liquid co-solvent pump with standard 4-solvent selection valve capable of composition from 5 to 70%
- Column oven with selection valve for up to six columns
- Autoinjector to enable multiple injections of a single sample or stacked injection workflow
- Choice of UV, UV-Vis, ELSD and MS (PDA) detectors
- GLS handles easy sample collection

ACCQprep HP 150 Preparative HPLC



- Pressure range: Up to 6000 psi (413 bar)
- Flow rate range: 1 to 150 ml/min
- Detection options: UV, UV-VIS, ELSD, and MS
- Compatible with automation modules: auto injector, autosampler, and column selector module
- Automatic switching between normal and reversed phase solvents, no user interaction required

CombiFlash® EZ Prep

Streamline Flash and Preparative HPLC



- Up to 3500 psi (240 bar) and 200 ml/min
- Run Prep HPLC columns up to 50 mm in diameter
- Flash purification for 10 mg to 33 g
- UV, UV-VIS, ELSD and MS detection options available
- Switch between normal and reversed phase solvents automatically, without user interaction

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CombiFlash® NEXTGEN 300+

RFID technology enables automated detection of columns and racks, adjusting flow rates for optimal results.



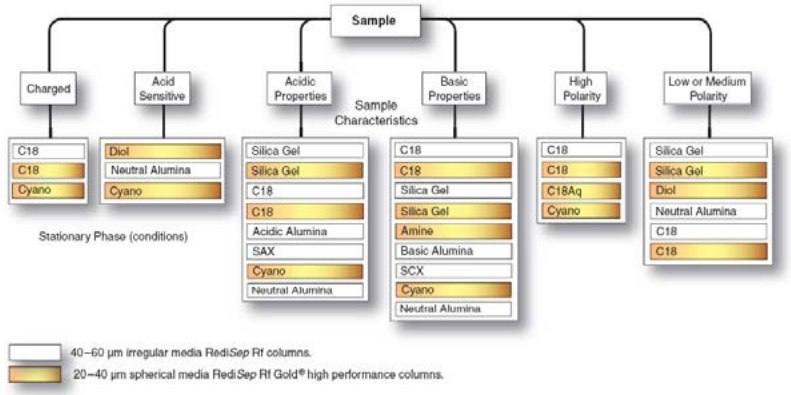
- Standard features include active solvent and waste level monitoring
- Flow rates range from 1 to 300 ml/min
- Operating pressure can reach up to 300 psi (20 bar)
- Detection options include UV, UV-VIS, ELSD and MS
- Compact design to save lab space
- Default methods increase flow speed without sacrificing performance
- Greener approach with optimized gradients to conserve solvent

REDISEP Flash Chromatography Columns

Designed to consistently produce high purity compounds.
Easy purification and scale-up from milligram to kilogram.



- Patented packing technique providing reliable and reproducible columns
- Extra thick walls for safe and robust columns
- Easy to use luer lock fittings
- A broad versatility on column phases for each type of purification



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Reaxus single head



M1 CLASS
3 MODELS: 10 ml/min - 40 ml/min - 100 ml/min
Up to 2.500 psi (10 ml/min)
Fluid path: Stainless steel



MX CLASS
10mL/min
Up to 5.000 psi
Fluid path: Stainless steel



LS CLASS
3 MODELS: 5 ml/min - 10 ml/min - 40 ml/min
Up to 6.000 psi
Fluid path: Stainless steel or Hastelloy



SC CLASS - FOR LIQUID CO_2
24ml/min
Up to 10.000 psi
Fluid path: Stainless steel

Reaxus dual head



LD CLASS
3 MODELS: 12 ml/min - 36 ml/min - 100 ml/min
Up to 6.000 psi
Fluid path: Stainless steel or Hastelloy



PR CLASS
2 MODELS: 100 ml/min - 300 ml/min
Up to 4.000 psi
Fluid path: Stainless steel



CP CLASS
3 MODELS: 12 ml/min - 24 ml/min - 100 ml/min
Up to 18.000 psi
Fluid path: Stainless steel or Hastelloy

PeriXus peristaltic pump



- 0.005 ml/min - 381 ml/min
- Up to 300 RPM
- Reversible motor

SyriXus Syringe Pumps

When reliability & accuracy are critical

Teledyne ISCO SyriXus precision syringe pumps offer precise flow and pressure control across a wide operating range. These pumps ensure accurate metering without pulsation or flow irregularities commonly found in other pump types.

They can handle a wide variety of fluids including:

- Aqueous and organic liquids
- Viscous fluids
- Corrosive solutions
- Slurries and pastes
- Heated fluids
- Precision fluid delivery
- Liquified gases
- Continuous flow mode is possible



	Capacity	Flow* Range (mL/min)	Flow** Accuracy	Pressure Range (psi, bar)	Standard Pressure Accuracy	Standard Plumbing Ports	Dimensions	Continuous Flow Range (mL/min)	Wetted Materials
1000x	1015 mL	0.001–408	0.5% of Setpoint	10–2,000 0.7–137.9	0.5% FS	1/4" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.01–265	N, H, PTFE
500x	507 mL	0.001–204	0.5% of Setpoint	10–5000 0.7–345	0.5% FS	1/8" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.001–132	N, H, PTFE
500xv High Visocity	507 mL	0.001–204	0.5% of Setpoint	10–5000 0.7–345	0.5% FS	3/8" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.001–132	N, H, PTFE
260x	266 mL	0.001–107	0.5% of Setpoint	10–9,500 0.7–655	0.5% FS	1/8" Valco	39.8x10.7x18.4 in 101x27x47 cm	0.001–70	N, H, PTFE, G, T
65x	68 mL	0.00001–25	0.3% of Setpoint	10–20,000 0.7–1,390	0.1% FS	1/8" Valco	39.8x10.7x18.4 in 101x27x47 cm	0.00001–16	N, H, PTFE

Wetted Materials: N=Nitronic 50, H=Hastelloy C-276, PTFE= Polytetrafluoroethylene, G=Gold, T=Titanium

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Universa bath thermostats

Immersion - Cooling - Heating: Universa has them all



- Bath edge ventilation prevents icing and condensation
- Speed controlled compressors: efficient refrigeration technology – minimal energy consumption, quiet operation
- Heating performance up to 3.6 KW
- Cooling capacity from 0.2 to 1.6 kW
- Advanced connectivity: USB, ethernet and Wi-Fi interfaces as standard

PRO Circulation Thermostats

Compact circulation thermostats for professional temperature control



- Thermostating from -90 to 250°C @ ±0.05°C
- Small heat transfer liquid volumes for quick temperature changes
- Hybrid cooling permits cooling using ambient air or cooling water

Integral

High-performance process thermostats

The Integral XT process thermostats are a state-of-the-art solution for precise temperature control in professional environments



- Power options ranging from 1.5 to 18 kW
- Lauda Integral IN/XT/P power options ranging from 1.5 to 25kW
- Wide temperature range (-90 to 320°C)
- Advanced flow principle with cold oil superimposition
- Electronically controlled eight-stage LAUDA Variopump
- Seamless volume flow management
- Modular interface concept for integration
- Simple operation with TFT or touch display

Variocool

Versatile for dissipating process heat in laboratories, mini plants and production facilities

The Variocool stands out due to its precise and flexible temperature control capabilities. It offers a wide temperature range, exceptional temperature stability, and high cooling and heating capacities.



- Variable process thermostats with cooling capacities from 1200 W to 10 kW
- Temperature range from -20 to 80°C
- Space-saving design and versatile applications
- User-friendly operation with a color TFT display
- Standard USB interface and alarm contact, additional interfaces can be added for enhanced connectivity
- Integrated bypass and optional pumps for adjusting operating pressure and flow rate

LAUDA Ultracool

The next stage of Energy-Efficient Temperature control

Process circulation chiller with cooling capacity of up to 265 kW from -5 to 25°C for industrial applications



- Suitable for setup outdoors
- Ready-to-operate "Plug & Operate"
- Incl. cold water container, centrifugal pump and internal bypass
- Standard-issue temperature sensing prevents freezing of the heat exchanger
- Integrated pressure switches to protect the circuit against pressure that is too high or too low
- Chiller casing made of galvanized steel panels coated with epoxy resin protected against corrosion even in aggressive production environments

Mobifreeze

The world's first mobile, battery-powered, ultra-low-temperature chest freezer: four ours of battery life at -80°C.



- High performance battery technology: the requirements of Good Distribution Practice (GDP) for the safe transport of pharmaceutical products at an ideal storage temperature are guaranteed by the high-performance battery with enhanced ignition protection (lithium-ion-phosphate battery technology).
- Actively tempered, mobile ultra-low freezer for safe maintenance of the cold chain in intralogistics and for factory transport in road logistics
- Flexible change between mains and battery operation possible, automatic charging when mains connection
- One feed-through with an internal diameter of 13 mm as standard, for the introduction of external control sensors

Versafreeze

Freezing down to -86°C with Lauda freezer cabinets and chest freezers.

- Freezing down to -86°C with Lauda freezer cabinets and chest freezers.
- Sustainable refrigeration technology: the world's first manufacturer of deep-freezers to use natural refri- gerants



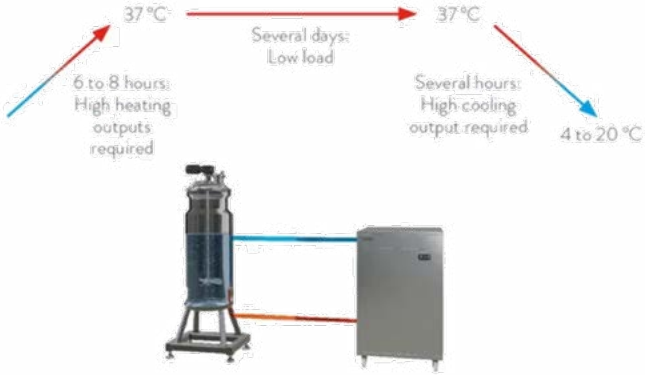
- High-quality components: Whether vacuum panels from va-Q-tec, compressors from Embraco or controllers from Störk, Lauda versafreeze is built with quality and reliability in mind.
- Excellent insulation properties: Vacuum panels, impermeable polyurethane foam insulation and thermal film enable efficient energy consumption, high temperature stability, short pull-down times and maximum warm-up times.

Ultratemp

High-performance temperature control for biotechnology and pharmaceutical applications from -5 to 60 °C en volumes up to 5000 liters.

- 60 °C en volumes up to 5000 liters.
- Robust and easy to clean: IP54 as standard and stainless steel housing.
- Easy operation and remote monitoring: Intuitive operation is provided at the device via functions buttons and an LCD.
- Application-optimized equipment: process thermostats enable exact regulation to an external temperature within a range of -5 to 60 °C.
- Temperature stability of ±0.5 K
- Powerful and Dynamic: High external volumes can be quickly heated up and cooled down again with outputs from 25 to 50kW.







Dissolution testers

Choose between 6 or 8 vessels. The dissolution testers are versatile performance machines, built with the highest quality components and engineering for manual and automated dissolution testing.



Generic drug testing

The **CD14 Comparative Dissolution** with 14 vessels allows testing of two different drugs at once. It is often used in bio-equivalence and generic studies.



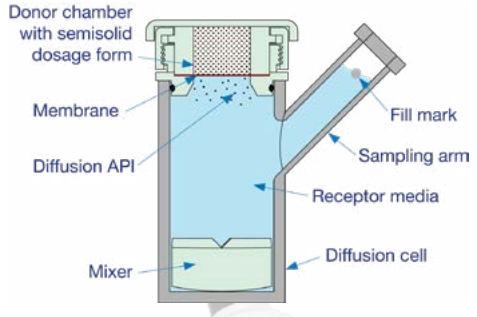
Find the perfect dissolution testing solution for your needs

Teledyne Hanson has developed a unique online configurator. Find the best dissolution system based on your requirements and preferences!
Go to https://dissolution-configurator.teledynehanson.com

Manual Diffusion testers

The patented Phoenix™ range of dry-heat systems makes diffusion-cell (or FRANZ) testing faster, easier, and more economical. The Phoenix DB-6 manual sampling system offers six-cell manual sampling in a compact footprint with an advanced touchscreen display.





Automated Diffusion testers

The Phoenix RDS Robotic Diffusion Station delivers fully automated sampling, collection, and media replacement with the ability to run up to 24 cells at once from a single computer workstation.
The Phoenix Flex automated tester si a fully automated IVPT workflow meeting USP & FDA requirements, with membrane and media temperature monitoring plus blank collection before dosing.



Phoenix RDS



Phoenix Flex

TELEDYNE
Teledyne LABS

Ecodyst Cooling Technology

The Ecodyst products utilize Ecodyst's patented direct cooling of a metal condenser coil with refrigerant from the compressor, leading to pull-down times of just minutes. This eliminates the need for traditional chillers or water/dry ice condensers resulting in a more sustainable and energy-efficient system.
Designed to handle an extremely wide range of solvents, including water and all common solvents used throughout industry.

Benchtop Evaporators

Modern high performance rotary evaporators with direct self-cooling condenser technology and zero consumables.



- More than twice as fast as traditional rotavaps
- Self-cooling technology
- Small footprint
- No need for glycol, dry ice, or water: eliminates the major sources of material waste associated with conventional rotavaps

Large-scale Evaporators

The EcoChyll X series offers a combination of high-performance, energy-efficient, and sustainable solution for large-scale solvent evaporation and product recovery. Replacing a rotating flask with a stationary flask that is stirred instead of rotated and directly heated, both features creating greater energy efficiency.

- Best-in-class evaporation rates
- Available in 4 models: X1, X3, X5 and X7
- Evaporation flask ranges from 12 to 200L
- Continuous sample feed valve and drain on the evaporating flask, allows for uninterrupted operation
- Condensation units can reach -40°C in a couple of minutes



magritek

Spinsolve family

The new Spinsolve Multi Xn redefines automated multinuclear NMR by allowing users to configure and measure as many X nuclei as needed - even 15 or more - without compromising performance.



Spinsolve provides the best performance of any benchtop system available today. The Spinsolve spectrometers come in 100, 90, 80, and 60 MHz models and can be equipped with unique features. With its small footprint, low weight, and low cost you can have powerful, high resolution NMR spectroscopy in the chemistry lab.





- Compact benchtop NMR: High-resolution NMR in a small footprint
- Multiple field strengths: 60, 80, 90 and 100 MHz options
- High-resolution performance: Excellent spectral resolution
- Multinuclear analysis: ^1H, ^19F and many X nuclei
- Cryogen-free operation: No liquid helium or nitrogen required
- Easy to use: Intuitive workflows and automated setup
- Solvent suppression: Analyse samples in protonated solvents
- Reaction monitoring: Real-time NMR monitoring of reactions
- Automation-ready: Autosampling and automated measurements
- Advanced NMR: 2D NMR, qNMR, DOSY and variable temperature

The Spinsolve can be equipped with powerful addons

- Reaction monitoring kit
- Autosampler
- Expert software



NEW

Next to ChemSPX, the BDR-group has 4 other Business Units:

BioSPX
A new focus on life science

BioSPX: Life Science – www.biospx.com

LabSPX

LabSPX: The missing "+" for your lab - www.labspx.com

SciSPX
Analysis simplified

SciSPX: Analysis simplified – www.scispx.com

AddSPX
Elemental & structure analysis

AddSPX: Element and Structure Analysis – www.addspx.com

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