

Life Science Solutions

Products | Service | Support



Quality Advice, Superior Products & After Sales Service

The Right Solution

Crea Laboratory Technologies provide a range of laboratory testing instrumentation to help you obtain better outcomes from your laboratory practices.

Providing superior testing instrumentation and products for research laboratories across a variety of industry sectors our products have been categorised in a variety of divisions.

Each division provides a complete product range designed specifically for the unique requirements of different industry sectors and associated applications.

Life Science

Assisting you with all your laboratory needs.

Particle Science

Specialising in the field of particle and surface sciences

Materials Testing

Testing solutions for your aggregate, cement, coal, ore and more

PetroChem

Instruments for all your ASTM and ISO test requirements

Oil Analysis

Help you with your Oil Analysis from online to onsite to a complete laboratory setup.

Client Services

At Crea, we work alongside you to provide superior products and technical advice to achieve the best possible solutions for your individual requirements.

Our staff are highly trained technical professionals who listen to your needs, gain an understanding of your specific application requirements and source the right practical solution to exceed your expectations.

Our objective is to achieve a successful business relationship through good advice, superior products and comprehensive after sales service.

Customer Care

Crea Laboratory Technologies have a comprehensive after sales service centre to provide fast and reliable trouble shooting for your business.

Our commitment is to providing reliable service when you need it. Our qualified technicians have a complete knowledge base of our full range of products and are continually trained to keep up - to -date with ever evolving technology.

Our service structure includes both onsite and back to factory servicing, spare parts and accessories plus technical advice to ensure you're back up and runningfast.

Sample Handling and Sample Preparation



Sample Preparation

- Rotary Evaporator
- BlueSpin Magnetic Hotplate Stirrers
- BlueSpin Magnetic Stirrer
- Overhead Stirrer
- Mixer, Rotator & Roller
- Shaker
- Vortex
- Homogeniser

Centrifuge

- Mini Centrifuge
- High Speed Micro Centrifuge
- Clinical Centrifuge

Liquid Handling

- Electronic Pipettes
- Mechanical Pipettes
- Pipette Stands
- Pipette Tips
- Step Mate Stepper
- Pipette Controller
- Pipette Controller
- Motorised pipette Filler
- DispensMate plus Bottle Top Dispenser
- Distilling

pH, Conductivity & Water Quality

The **Bante 900** bench top unit is designed for high performance and easy operation and is capable of measuring up to 8 water quality parameters, including pH, ORP, Ion, Conductivity, TDS, Salinity, Resistivity, DO and temperature.

The unit carries many features such as Multi-point Push Button calibration, Auto Buffer recognition, viewing of the electrode slope, Automatic Temperature Compensation, Ion concentration measurement just to name a few.

The Bante 900 provides meaningful data switching between ppm & ml/l and is able to measure 13 different types of Ions. The Bante 900 comes with quality electrodes and is an affordable addition to your testing equipment.



Waterproof pocket Models

- Conductivity tester
- pH tester
- TDS/°C tester
- Conductivity / °C tester

Portable Models

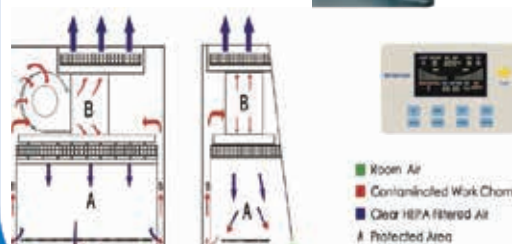
- Conductivity/TDS/Salinity/°C meter
- pH/ mV/ ORP / °C / °F meter
- Dissolved Oxygen meter

Benchtop Models

- Conductivity/°C meter
- pH/ mV / °C meter
- multiparameter Water Quality meter
- Precision pH/ mV/ ORP / °C/ °F meter
- Precision pH/ ORP / Ion / °C/ °F meter
- Conductivity/TDS/Salinity / °C / °F meter
- Precision Dissolved Oxygen meter

Safety Cabinets

Biosafety Cabinets - Classes I/II/III, Laminar Flow Cabinets, fume hoods, biochemistry analysers, refrigerators, air showers and incubators.



Waste Disposal



A system for sterilising and biohazardous waste disposal, where the waste can be treated as common waste after being disposed by the system.

Uses:

On-site solid waste caused by low infectious or pathological inspection, including the the excision body of human and animals, microbiologic incubation, PCR experiment waste, needle & syringe.
Sizes: 0.6L or 3L



Biobase Cabinets

Designed to protect the operator, the laboratory environment and work materials from exposure to infectious aerosols and splashes that may be generated when manipulating materials containing infectious agents such as primary cultures, stocks and diagnostic specimens. According to the specification level, it could be divided into Class I, II or III.

Biobase offers options for all.

Easy To Move

LCD Display/Time

Reserve Function

Remote Control

Automatic Front Window

Voice Prompt Function

Water Purification Systems



CRYSTA Lab Water Purification Systems

Ultra pure water (Type I) and pure water (Type II) is a vital resource for every scientific application. The CRYSTA Series is a line of lab water purification systems that will deliver the best technical results for your lab water purification needs. Aurora's existing line of high precision instruments produce high quality ultrapure water (Type 1) and pure water (Type 2) to serve three different areas of laboratory applications. These range from general pure lab water use in buffer preparation and high purity glassware rinsing to critical use in High Performance Liquid Chromatography (HPLC) and Polymerase Chain Reactions (PCR).

Key Features

Automatic reverse osmosis membrane flush after system is turned on and after each dispensing use.

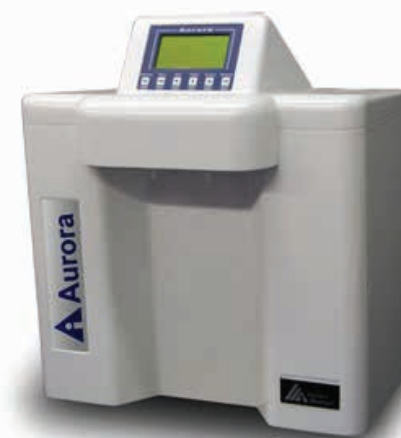
Automatic production of reverse osmosis water for storage in internal tank.

Timed dispense mode for convenient walk away unattended operation.

Auditive alarm for cartridge change when resistivity drops below users preset values.

One touch automatic dispensing option in multiple modes.

Real-time display of water resistivity, outlet temperature, total dissolved solid concentrations of inlet and outlet water, and remaining cartridge longevity.



General Applications

Microbiology media preparation
Reagent preparation
High purity glassware rinsing
Buffer preparation
pH solution preparation

BI-HYDRO easy bi-distillation in metal cabin

Double distilled water

3 safety systems for automatic operation

4 litres per hour bi-distilled water for usual applications in laboratory

High purity, only borosilicate glass 3.3 (Duran, Pyrex, etc.)

in contact with water

Water free of metallic ions and pyrogens, conductivity 2 µS/cm.

Automatic operation

Visible double-distilled process.

Rust proof metal cabin

Includes a level sensor for distilled water containers



- Automatic operation
- Rust proof metal cabin
- Includes a level sensor for distilled water containers
- Very easy disassembly for cleaning
- For wall mounting

Automatic Liquid Handling Systems



The VERSA Series of liquid-handling workstations are being used in many sectors for a variety of applications. The versatility of the liquid-handling heads, deck modules and deck size ensure that there is a VERSA system for almost every application

The VERSA™ automated liquid handling systems satisfy stringent laboratory requirements.

Laboratory automation has revolutionised the way scientists do research - maximising accuracy, precision and throughput while minimising time and consumable costs.

Aurora's versatile robotic automated liquid handling systems demonstrate that lab automation provides a simple, cost-effective and dependable solution allowing scientists to maximise their potential while also enabling many general liquid handling protocols.

Aurora offers specialised combination heads bulk dispensing from a single liquid handling module. The large volume range allows for the notion of parallel dilution whereby a dilution scheme is created directly using nanolitre capabilities. Parallel dilution is more accurate than the traditional serial dilution method.

Application Workstations
Nucleic Acid Preparation / PCR Setup /
Next Generation Library Prep
Enzyme-Linked Immunoassay
Time Resolved Fluorescence Assay
Spotting / Microarray / Peptide Synthesis
Solid Phase Extraction / Liquid Liquid Extraction
Customisation

Applications:

- Genomics
- Cellomics
- Immunological Applications
- Spotter/Microarray Applications
- Custom sample preparation and applications
- Preparation
- General Liquid handling

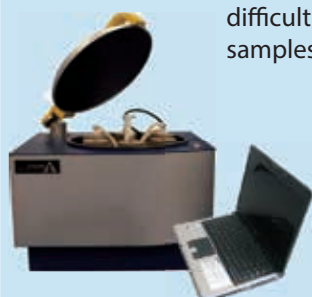
Key features:

Precise XYZ Autosampler
User friendly drop and drag software
SyringePipettor, nanoPipettor or Reagent Drop liquid handling modules
Wide Volume range (nL to mL)
OEM Customisation

Elemental Analysis

Sample Preparation

Automatic top-loading closed vessel microwave digestion with high-pressure capabilities which enhance digestion quality and decrease digestion time. The Aurora systems are capable of running up to ten high-pressure closed vessels providing a fast and automated method to digest even the most difficult samples.



Microwave Digestion

Environmental

Atomic Absorption Spectroscopy
Atomic Fluorescence Spectroscopy
Microwave Digestion

Food Safety

Atomic Fluorescence Spectroscopy
Microwave Digestion

Medical Science / Life Science

Atomic Absorption Spectroscopy
Atomic Fluorescence Spectroscopy



Atomic Absorption Spectroscopy



Atomic Fluorescence Spectroscopy



Uv-Visc

Ion Channel

Ion channel screening technologies are no longer limited to high throughput instrumentation, and now include developments in reagents, cell lines and off-the-shelf assays. Research and development continues to progress at a very fast pace - theoretically, new technological breakthroughs will remove existing impediments preventing pharmaceutical companies from discovering ion channel targeted drugs.

- » Channel Readers
- » hERG Cell Line
- » Kv1.3 Potassium Channel Cell Line
- » Nav1.5 Sodium Channel Cell Line
- » High-Throughput Screening Assay Services

Applications:

- » High Throughput Screening Assay for ASIC Channels
- » Validation of Na⁺, K⁺-ATPase Isoform Using Cor.At® Cardiomyocytes & ICR8000™

Channel Reader

Designed for ultra high throughput ion channel screening of compound libraries against ion channel targets. ICR reader technology offers high sensitivity generating accurate drug rank order matching electrophysiology data. This new member of the ICR ion channel screening series provides the throughput to access compound QT liability early in the drug discovery process.



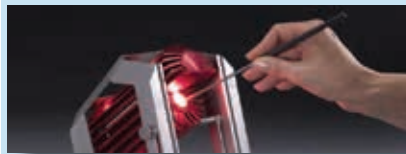
Microbiology & Biotechnology

including: Anaerobic Jars, Safety Bunsen Burners, Glass Sample Storage and Bottles, Manual and Automated Colony Counters, Containers for Storage and Sterilisation, Homogenisers, Roller Bottle Incubators, Safety Vacuum Systems and a range of General Laboratory Consumables

Solaris-

Flameless Sterilisation

Schuett Solaris loop steriliser is the perfect alternative to the safety bunsen burner. Using standard electrical power and working temperature is reached within a split second – no warm up or pre heating necessary. Perfect for use in Laminar Flow cabinets. The unit doesn't require oxygen so can be used in anaerobic conditions.



- Electric (No Flame)
- Instantly ready to use
- Touch Free Start
- Low Cost Operation

Safety Bunsen Burner

Phoenix II features easy-to-read highlighted colour display with joystick menu navigation, comfortable operation by hand or switch or motion sensor mode and is available in 3 different models.



Rollers & Incubators

The INCUDRIVE Biotec-motion-systems and the INCUDRIVE incubators are designed for rotating and rolling test tubes and bottles used in cell biology, virology, microbiology and pharmacy.



INCUDRIVE 90 (optional with CO2 provision)
Roller bottle incubator, max. of 90 bottles, for the production of e.g. vaccines using adherent cell cultures

INCUDRIVE S Incubator with drive unit to rotate and roll up to 630 test tubes or 7 roller bottles.

INCUDRIVE D-I Drive unit with incubating hood and air-circulation system to rotate up to 16 roller bottles.

INCUDRIVE R Roller system with drive unit and roller frame to rotate and roll up to 630 test tubes or 7 bottles for cell culture.

INCUDRIVE H Incubating hood with air-circulation-system.

Homogenisers

Schuett homogen-plus is the perfect solution for tough tissues samples that are difficult to homogenise with its robust, vibration-free high-torque drive unit capable of 3,000rpm. Users are able to utilise their existing laboratory test-tubes with the included quick grip clamp or a full range of consumables are available specifically designed for the homogeny-plus.



Colony Quant

Automated Colony Counter System enables image acquisition and simultaneous evaluation within seconds. Features a light-proof sample chamber with colour camera for live images and circular LED-illumination.



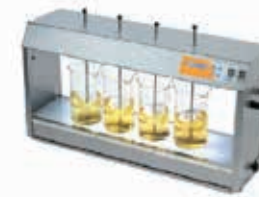
-Windows®-surface-For Petri dishes with Ø60 and 90 mm- Selection according to parameters – colour, size and shape, in any combination -Storage of the set parameters for future evaluation, retrievable by a simple mouseclick

Anaerobic jars

For the cultivation of anaerobic & microaerophilic microorganisms as well as for filling with CO2 Manometer for monitoring vacuum or positive pressure -1 to + 0.2 bar Two valves for evacuation and filling with gas anaerobic conditions by evacuating and flushing with gas. Reaching anaerobic conditions through flushing, e.g. with nitrogen reaching anaerobic conditions through chemical reduction of oxygen.



Baths & Heaters & Flocculators



Digital flocculator for water analysis of 6 or 4 places.- Speed controller by microprocessor - Smooth & progressive start & stop - Digital display LCD backlighted indicating the selected and actual speed and timer (audible alarm) - Membrane push-button control - Quiet operation suitable for continuous running.

- Temperature controlled by microprocessor, with integrated high precision Pt100 sensor, and ARA V2 algorithm of temperature regulation with "fuzzy logic" control.
- Temperature adjustable at the immersion thermostat, and stirring speed adjustable for each place individually.
- Pump for homogenisation (6 l/min) (max. pressure 200 mbar).
- Digital display LCD backlighted showing the selected and actual temperature and speed.



- Membrane push-button control.
- Double safety thermostat:
 - The unit will cut out if there is insufficient liquid or if the temperature exceeds the maximum temperature.
 - Safety automatic disconnection with acoustic alarm that prevents overheating from the programmed temperature.
- Indication on the display of high temperature on the tank, that provides protection against burn.
- Automatic restart after unexpected shut down keeping the same parameters as before the incident.



Features

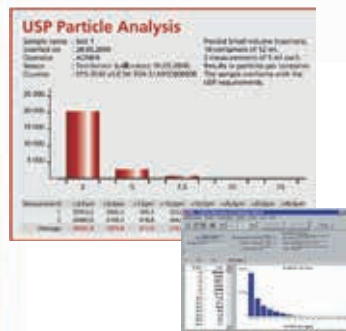
- Metallic incubator with frontal door made of metacrilate.
- Temperature controlled by microprocessor, with ARA V2 fuzzy logic algorithm for temperature control of high precision to be used with internal or external sensor (integrated Pt100).
- Digital display LCD backlighted with indication of the selected and real value of the temperature, and timer (with audible alarm).
- Membrane push-button control.
- With forced air circulation.
- Security system that protect against over-temperature.

Consumables & Labware

- Standards
- Flasks
- Cylinders
- Beakers
- Test tubes
- Sample bottle
- Ice buckets
- Tubes
- Caps
- Funnels
- Adaptors
- Stopcocks
- Bottles & vials
- Reaction vessels
- Metalware & Support
- Small appliances



Solutions for Special Applications



USP -Particle Counting

The PAMAS SVSS is an easy-to use highly sophisticated particle counting system. The software PAMAS USP reports measuring results according to the pharmaceutical standard USP. With the help of the software PAMAS PMA, single measurement series are shown on a table or graph.



- Preadjustable and automated sampling routines.
- Size of sample container 1 ml - 2,000 ml
- Analysis volume: 100 µl - 1,000 ml
- Interchangeable syringes with 1 ml, 10 ml and 25 ml volume

Vapour Adsorption

Due to the high sensitivity of the Quartz Crystal Microbalance, it can be used for very low sample mass. QCM measures the change in mass by detecting the change in frequency of quartz crystal resonator. The resonance is due to the high sensitivity of the Quartz Crystal Microbalance, it can be used for very low sample mass. QCM measures the change in mass by detecting the change in frequency of quartz crystal resonator. The resonance is disturbed by the addition or removal of a small mass due to adsorption or desorption at the sample that is put on the acoustic resonator. BELQCM can evaluate nano gram order adsorption/ desorption amount that cannot be measured with conventional volumetric instruments. disturbed by the addition or removal of a small mass due to adsorption or desorption at the sample that is put on the acoustic resonator. BELQCM can evaluate nano gram order adsorption/ desorption amount that cannot be measured with conventional volumetric instruments.

Nano Particle Size Analyser

The measurement principle is based on Dynamic Light Scattering (DLS) of backscattered light. Compared to conventional analysers, this configuration avoids multiple scattering and allows accurate measurements even in concentrated and dark dispersions. In most cases, no sample dilution is necessary which makes measurements almost instantaneous. The granulometer VASCO can also perform on-line measurements of concentrated samples and provides real-time analysis of particle size in a pipeline.



Applications:

• **Food Industry:** milk, chocolate, coffee, beer, emulsions • **Pharmaceutical:** suspensions, powders, syrups, injectables, microcapsules • **Chemicals:** polymers, dispersants, pesticides • **Environmental:** tap water, waste water, flocculation, membrane filtration • **Cosmetic:** perfumes, creams, emulsions • **Petrochemical:** fuel, crude oils, bitumen additives • **Pigments:** inks, toners, paints, varnishes.

Surface Area

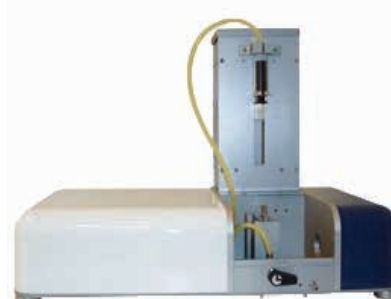
The BELSORP mini II is a user friendly surface area analyser with advance measurement principles. This laboratory unit can measure 3 samples simultaneously and is capable of measuring sample with surface areas as low as 0.01 m²/g. Surface area is particularly important in industries using lactose, flour and starch just to name a few. If the surface of the dry ingredients is too low this will cause problems in the blending and result in problems with the final product. Ensuring the optimum surface area on dry ingredient is achieved will result in the utmost product quality. This is when a highly accurate instrument like the BELSORP mini II will be a valuable measurement tool.



Particle Size & Shape

The Occhio systems are automatic imaging particle analysers dedicated to powder quality characterisation able to analyse powders, suspensions & emulsions in particle size range 0.4 microns - 3000µm.

The patented disperser provides a perfectly prepared slide glass free of contamination or damage. The vacuum disperser will gently deposit millions of individual grains of powder onto a glass slide within a few seconds. With the new XY Plate, the device allows analysing all particles automatically to bring particle size measurement and shape characterisation.



Maximise the life and reliability of your specialist instruments

CREA's industry-leading instruments are designed to help your organisation meet its analytical and testing demands.

Preventative care and maintenance offered through our Lifetime Service & Support plans will extend the life of your vital equipment, cut unexpected repair costs and minimise downtime.

Choose from three annual plans, each designed to offer flexibility in the level of service and support you receive:

Lifetime Service & Support Plan	Silver	Gold	Platinum
Scheduled visits per year	2	2	2
2 Working Day On-Site Guarantee*	Yes	Yes	Yes
Emergency call outs	-	1	Unlimited
Savings on parts purchased	-	10%	20%

All CREA Lifetime Service & Support plans include two scheduled visits each year. During these visits we test, calibrate and maintain your instrumentation, with work completed in accordance with manufacturer's specifications by trained engineers.

In the event of an emergency requiring on-site attention, we also guarantee we will have one of our senior, qualified technicians on-site within 2 working days* if required.

CREA Lifetime Service & Support helps to extend the life of your valuable instrumentation, keeping it operating like new.

* Subject to customer approval.



Crealt - Your Partner in Laboratory

**LIFE
SCIENCE**

**PARTICLE
SCIENCE**

PETROCHEM

**Complete
Laboratory
Solutions**

**OIL
ANALYSIS**

**MATERIALS
TESTING**




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-  Materials Testing