

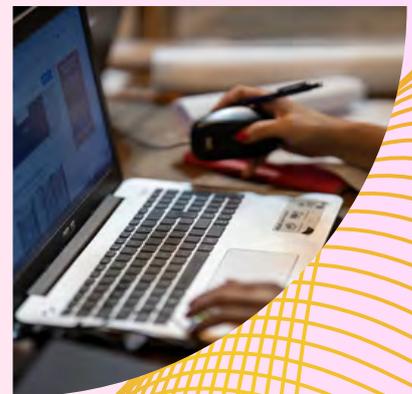


ALCHEMIST SCIENTIFIC CO., LTD
บริษัท แอลเคมิสต์ ไซเอนทิฟิค จำกัด

2026

Product Catalogue

Laboratory equipment and consumable



Contact us



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ABOUT US

ALCHEMIST SCIENTIFIC CO., LTD บริษัท แอลเคมิสท์ ไซเอนตีฟิค จำกัด

We are committed to empowering scientific discovery by providing high-quality laboratory instruments and equipment. We serve a wide range of industries, including biotechnology, pharmaceuticals, research institutions, and academia.

We partner with leading global manufacturers whether you need analytical instruments, laboratory consumables, or specialized scientific tools, our expertly curated selection ensures accuracy, reliability, and efficiency in every experiment.

Beyond providing top-tier products, we take pride in offering comprehensive support—from expert consultation and seamless procurement to installation, maintenance, and technical assistance. Our goal is to be more than just a supplier; we strive to be a trusted partner in advancing scientific progress. accuracy, reliability, and efficiency in every experiment.

THAILAND LAB 2024



ALCHEMIST SCIENTIFIC CO., LTD บริษัท แอลเคมิสท์ ไซเอนตีฟิค จำกัด

No. 300/218, Patio Rama 9-Srinagarindra, Krung Thep Krittha Road, Hua Mak, Bang Kapi, Bangkok, Thailand, 10240

Our Products



Auto dry desiccator, Multi-positions stirrer, Vacuum Oven, Gel electrophoresis, UV Lamp Viewing Cabinet, Underwater stirrer, Laboratory gravity control device, etc.



Ultrasonic processors, Vaplock - solvent waste kit, Digital thermometers, General laboratory equipment



Spin-down Centrifuge, Centrifuge and Pipette controller



Autopipette



Climatic chamber, Plant growth chamber, Seed Preservation chamber, Plant growth lighting solution, Climate-control chamber with plant phenotyping system



Laboratory DI water and Ultrapure water system



DCI Digital cell imager, Handheld automated cell counter



Gel Documentation Imager, Chemiluminescence Document Imager



Circulating waterbath, Waterbath, Densitometer, UV PCR Cabinet, Shaking Incubator, Shaker



Cell counter



Biological Safety Cabinet, CO2 Incubator, Ductless fume hood, Laboratory refrigerator and freezer



pH meter, Hotplate stirrer, Vortex mixer, Dry block heater, Laboratory Balance



Laboratory and industry peristaltic pump



Laboratory peristaltic pump



Zetapotential analyzer, Fluorescence spectrometer, Simultaneous multi-laser nanoparticle tracking analyzer, Raman Spectrometer, X-ray fluorescence analyzer



Particle size analyzer



Laboratory furniture, Electric retort, Stem boiler



Serological pipette



Filters and Plasticware

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AS ONE – Laboratory and Industrial selection
As a hub for research, industries, and medical instruments, AS ONE continue to create new value by linking information, products, and services.

Auto Dry Desiccators and Vacuum Desiccators



Auto dry Desiccators (OH-3S)

- Auto dry type
- Material: Acrylic
- Reaching Humidity: 25% RH
- Dehumidifying: element membrane area 30x30 mm
- Capacity: 38 L



Auto dry Desiccators (UVOH-520SA)

- Auto dry type
- Material: Acrylic
- Reaching Humidity: 25% RH (cutting 520 mm or less)
- Dehumidifying: element membrane area 30x30 mm
- Capacity: 38 L



Auto dry Desiccators (OH-SK)

- Auto dry type
- Material: Acrylic + Shading PVC
- Reaching Humidity: 25% RH
- Dehumidifying: element membrane area 30x30 mm
- Capacity: 38 L



Auto dry Desiccators with Hum. controller (ZL-OH-3S)

- Auto dry type
- Material: Acrylic
- Achieved humidity: 15% RH
- Size: 285 x 275 x 485 mm
- Capacity: 38 L



Floor stand Auto dry Desiccators (SP-BGFN-PG)

- Auto dry type
- Material: Acrylic
- Humidity setting: 20 to 50% RH
- Size: 560 x 483 x 864 mm



Vacuum Desiccators

- Vacuum Desiccator type
- Material: Acrylic (thickness: 25 mm), valve vacuum gauge
- Allowable vacuum 1 torr (133 Pa)

Digital Multi-Position Stirrers



1-Position magnetic (LS-1D)

- Max speed: 1500 rpm
- Max capacity: 1 x 3000 mL
- Top plate: SUS304

Setting individually



4-Position magnetic (LS-4D)

- Max speed: 1500 rpm
- Max capacity: 4 x 2000 mL
- Top plate: SUS304

Setting individually



6-Position magnetic (LS-6D)

- Max speed: 1500 rpm
- Max capacity: 6 x 2000 mL
- Top plate: SUS304

Vacuum Oven and Cool Incubator



Vacuum oven (AVO)

- easy to piping and operation, a valve for connecting a vacuum pump and vacuum gauge are placed on the front operation panel
- Capacity: 15 L
- Temp. setting: 40 to 220 °C
- Vacuum range: 0.1 to 101 kPa



High Vacuum Diaphragm pump

- Achieving Pressure: 200 Pa
- Exhaust speed: 23 L/min
- Built-in thermal protector
- Power supply: 100-240 V, 50/60 Hz



Cool Incubator

- Cooling and Heating: Peltier element
- Temp: 3 to 45 °C
- Capacity: 28 L
- Power supply: 100-240 V, 50/60 Hz

Gel electrophoresis and UV Lamp Viewing Cabinet



Gel electrophoresis

- Tank size: 183 x 59 x 56 mm
- Out voltage: 18 to 135 V
- Timer: 0-99 min setting or continuous
- Memory: yes



UV Lamp Viewing Cabinet

- Standard electrophoresis gels and TLC plates (20x20 cm.) can be observed
- We have incandescent lights inside, so you can observe them normally



UV Lamp

- This ultraviolet irradiation device can switch the peak between 254 nm and 365 nm.
- Power: 4 W, 8 W and 16 W

Underwater stirrers



Waterproof type stirrer with controller

- Positions: up to 6
- Speed: 20 to 1500 rpm
- Timer setting range: 0-9 hours or continuous
- Display: LCD
- Power Supply: 100 to 240 VAC
- Stirrer size: dia. 120 mm.
- Capacity: up to 1 L
- Operating Temp.: 0 to 60 °C

Setting individually



Waterbath with underwater stirrer

- Positions: up to 8
- Speed: 100 to 1500 rpm
- Tank size: 345 x 300 x 150 mm
- stirrer capacity: 300 mL
- Temperature setting.: +5 to 80 °C

Setting individually



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Water activity Device (Aw)



Water activity Device “MD-AW3”

Features:

- Small and simple design for tabletop use. It doesn't interfere with on-site measurements.
- After setting the sample cup, you can measure it with the touch of a button.
- (Approx. 5 min.) - The display and sample storage are separated, improving stability and workability.
- It has a clock function, and if it has a memory function, it will stamp.
- It can record 999 memories, and you can retrieve recorded CSV files using a USB cable.
- Measuring range: 0 to 1.00 Aw
- Resolution: 0.01 Aw
- Body size: 120 x 60 x 58 mm.

Plasma Gene Molecule Introduction Device



Plasma Gene Molecule Introduction Device “LINACYTE 3MC”

Plasma irradiation triggers endocytosis of the cell. The plasma allows cell-friendly transfection of molecules into the cell, replicating gene introduction of cells in natural living organisms.

Features:

- Gene transfer can be achieved by irradiating cells with plasma and inducing endocytosis within the cells.
- Active introduction by endocytosis allows for uptake without damaging the cell membrane or chromosomes.
- It boasts high transfection efficiency and cell viability, with a cell viability of over 80% and a maximum transfection efficiency of over 50%. *Varies depending on the cell type.
- 96 samples can be processed in approximately 13 minutes. *Plasma irradiation time is approximately 2 minutes per 96 wells.
- High transfection efficiency is achieved in a wide range of cell types.

Laboratory Gravity Control Device



Laboratory Gravity Control Device “Gravite”

GRAVITE® is a multi-directional gravity device for simulating microgravity and hyper-gravity.

Features:

- **Microgravity (10⁻³ G) Environment**
Our original clinostat, GRAVITE is a multidirectional G-force generator controlling rotation of two axes simultaneously. this unique feature allows cancellation of cumulative gravitational vector at the center of the device to create 10⁻³ G as same a ISS.
- **Hyper-gravity (2 to 3 G) Environment**
GRAVITE can also rotate one axis to create 2 to 3 G.
- **Gravity Monitoring**
GRAVITE can monitor gravity using acceleration sensor in real time.
- **Cell Culture Environment**
GRAVITE can set up in CO₂ incubator with 37 °C and 95% humidity.

3D Single-use sterile container

Sterilized



3D Single-use sterile container “Steritainer plus”

is already gamma beam sterilized and ready for use immediately after being brought out of the box. This Single-use bag is best suited for a wide range of applications for biomedicines, such as preparation, storage, and transportation of liquids.

High-Strength Design

Since the main body of Steritainer itself stands on its own, a solution can be stirred without relocating it to a glass container.

Capacities: 5, 10 and 20 L

Option: 3-Port Connector (1/4 inch Type) Closed System Connection is Capable by Connection Connector



AS ONE – Laboratory and Industrial selection
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Laboratory equipment and consumables



Cooling Water Circulator Bath (LTC-450)

- Use durable stainless steel coils
- Temp. range: -20 to +20 °C
- Flow rate: 12 L/min
- Tank size: 4.5 L
- Refrigerant: R404A
- Protection alarm sensor



Incubator Cover (I-Cover)

- It is a simple type incubator which is used to cover the sample.
- Material: Body/transparent PMMA (Acrylic), Heater unit/steel plate baking coating
- Dimensions: 450 x 400 x 440 mm
- Temperature adjustment range: + 5 to +45°C (warm air blow temperature)



Hotplate (Large size)

- Plate material: Aluminum
- Max temp.: 300 °C
- Plate size: 400 x 300 mm.



Filter Holder set

- Filtration bottle: 1 L or 2 L
- Funnel capacity: 300 mL
- Applicable filter diameter: φ 50mm
- Accessories: Connection cap, silicon tube
- Material: Glass borosilicate



Funnel manifolds

- support screen and holder connection are all made of SUS316L, so it is resistant to acid and alkaline solvents and can be sterilized.
- Capacity: 300 mL/funnel



SPE Vacuum Manifold (SVM12)

- Each port has a flow control valve, so the flow rate can be reproduced during extraction.
- number of ports : 12
- material: Vacuum Chamber/Glass, Lid/Marble, Valve/PP



O₂ Absorber, CO₂ Generator (for Anaerobic Microbial)



Platinum crucibles and porcelain crucibles



Membranes, Paper Filters, Ultrafiltration membranes, etc.



Autoclavable Spray Bottle

- Ethanol for disinfection an invert soap can be used.
- Capacity: 500 mL



15- and 50 mL Centrifuge tubes

- It has excellent heat and cold resistance, so you can use autoclave and deep freeze.
- DNase/RNase/Pyrogen-free
- Material : Body/PP (Polypropylene) , Cap/HDPE (high density polyethylene)

Sterilized

- Material : Body/PP (Polypropylene) , Cap/HDPE (high density polyethylene)
- Heat-resistant temperature: 80 to + 121°C
- Capacity: 15 mL, and 50 mL

Acid-Washed PFA Bottle



PFA Bottles for preparation before ICP-MS

Acid-Washed PFA Bottle is high-purity chemicals containers to use in product development, quality control in semiconductor industries and ICP-MS applications.

Product type:

- Narrow mouth
- Wide mouth

Capacity:

- 20 mL
- 100 mL
- 250 mL
- 500 mL
- 1000 mL

ion elution testing results

Immersion liquid concentration µg/L (ppb):

- | | | |
|--------------|--------------|--------------|
| · Na < 0.001 | · Cr < 0.001 | · Zn < 0.006 |
| · Mg < 0.001 | · Mn < 0.001 | · Cd < 0.01 |
| · Al < 0.001 | · Fe < 0.005 | · Sb < 0.005 |
| · K < 0.005 | · Ni < 0.005 | · Pb < 0.002 |
| · Ca < 0.02 | · Cu < 0.006 | · Ti < 0.004 |

Water Quality tester "PACKTEST"



"PACKTEST" enables simple analysis of water quality and is the simplest water quality testing device that anyone can use easily.

- pH: WAK-pH
- Residual Chlorine: WAK-CIO/DP
- Hexavalent chromium: WAK-Cr6+
- Zinc: WAK-Zn, WAK-ZN (D)
- Iron: WAK-Fe
- Nitrite/Nitrile nitrogen: WAK-NO₃, WAK-NO₃(C)
- Total residual chlorine: WAK-T/CIO
- COD: WAK-COD-2, WAK-COD (D)-2, WAK-COD (H)-2

- Sulfide (hydrogen sulfide): WAK-S
- Chloride: WAK-Cl (D)
- Residual Chlorine: WAK-CIO(C)
- Nitrite/Nitrite nitrogen: WAK-NO₂ (C)
- Potassium permanganate: WAK-PMD-2
- Sulfurous acid: WAK-SO₃ (C)
- Chlorine dioxide: WAK-CIO₂
- Total metals (five types): WAK-Me
- Total hardness: WAK-TH
- etc.

Ultrasonic Processors

Microprocessor-Based programming with digital accuracy and repeatability ensures adherence to the most exacting protocol

Applications: Sample preparation, cell lysing, disaggregation, homogenization, particle size reduction, acceleration of chemical reactions



130 Watts Ultrasonic Processors

- Ideal for low-volume applications – from 150 µL to 150 mL
- Built-in probe rests help keep everything close at hand
- With timer and pulser mode



500- and 750 Watts Ultrasonic Processors

- Use for samples from 250 µL to 1000 mL
- Integral temperature controller, energy controller, and memory
- Integrated temperature controller prevents harmful sample overheating by terminating the ultrasonics when the sample temperature reaches a predetermined limit (set from 1 to 100 °C)

Applications:

- Sample preparation
- Cell lysing
- Disaggregation
- Homogenization
- Particle size reduction
- Acceleration of chemical reactions



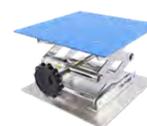
Sound-abating enclosure



Probe and tip (0.25 to 1000 mL)



Temperature Probe



Lab Jack

Accessories

Vaplock™ Solvent Waste Kit

Cole-Parmer VapLock™ Solvent Waste Kit with Square Carboy 10-Port, Polypropylene and HDPE, 63 mm Closure, 10 L



The Cole-Parmer® VapLock™ solvent waste kits with carboy Designed to provide an effective means of sealed solvent delivery.

Include all the required components for safe waste containment. Use the waste kits to minimize leaks, spills, and vapor escape from solvent waste containers. Waste kits include a 10-port manifold, exhaust filter, adapters, plugs, tubing, and container—everything you need to install on a typical HPLC instrument.

Specification:

- Capacity: 10 L
- Material: High Density Polyethylene (HDPE)
- Cap Material: HDPE Cap and Manifold
- Cap / Stopper Size: 63 mm
- Cap Color: White
- Bottle Color: Translucent
- Special Features: Square Carboy



General Laboratory Equipment



Ultrasonic Cleaners

- Material: Stainless Steel Bath
- Display: LED Display
- Capacities: 2, 3, 6, 9, 13, 20 and 27 Liters
- Controller: Temp./time/Pulser/Degas



Bead Baths

- Bath is always ready, eliminating warm-up times
- Safer operation than oil baths
- Dry, inert, nontoxic, cleaning, and refilling
- Temperature: Ambient to 80 °C
- Capacity: 6, 14, and 20 L



Vacuum pump

- Flow rate : 28.3 L/min
- Max Pressure : 4.14 bar
- With gauges, regulators, adjustable relief valve



Colony Counters

- Audible count confirmation
- Read individual plates or calculate an average over multiple plates
- two 50- to 90-mm dish centering adapters

Digital Thermometers



Data Logging Thermocouple Probe Thermometer

- 1, 2 or 4
- Type K: -200 to 1372°C
- Data logging: 18000 point (Except 1 channel)



Fridge/Freezer Digital Thermometer

- Temp Range: -50 to 70.0°C
- Probe is attached to a 3 m micro-cable that permits a doors to close on it and submersible.



Big Digit Digital Thermometer

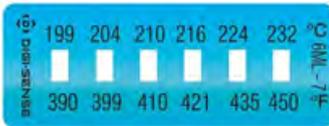
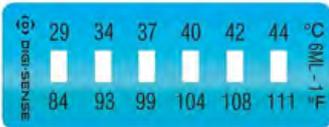
- Temp Range: -25 to 70.0°C
- LCD easily attaches to a window or piece of glass. Used to continually monitor temperature in storerooms, control rooms, fume hoods, laboratories, cleanrooms.



Waterproof Food Thermometer

- Temp Range: -50 to 300.0°C
- Waterproof (IP67) makes these ideal for use in food and beverage industries.

Irreversible Temperature Indicators



Key Features:

- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
- Express shipping by Air is required to prevent activation while in transit

Parameters:

- 29, 34, 37, 40, 42, 44 °C
- 65, 71, 77, 82, 88, 93 °C
- 132, 138, 143, 149, 154, 160 °C
- 199, 204, 210, 216, 224, 232 °C
- 44, 46, 49, 54, 60, 62 °C
- 99, 104, 110, 116, 121, 127 °C
- 166, 171, 177, 182, 188, 193 °C
- 241, 249, 254, 260, 280, 290 °C



Oxford Lab Products we pride ourselves on providing our customers with the highest level of service and satisfaction. We require reliability, accuracy and precision when it comes to our laboratory instruments and equipment.



Spin-down Centrifuge (C8-M)

- Compact design saves valuable benchspace
- Fixed speed 6,000 rpm
- Included:
 - 8x1.5/2.0 mL fixed rotor
 - PCR tube rotor - 0.5 mL Tube adaptor



Clinical Centrifuge (C6VX)

- Easy to clean drain in case sample spillage
- Max speed: 6,500 rpm
- Max Capacity: 6 x 15 mL
- Fully autoclavable rotor



High Speed Centrifuge (C12V)

- Compact design saves valuable bench space
- LCD Display
- Easy to set and view programs
- Max speed: 15,000 rpm
- Included: 12x1.5/2.0 mL fixed rotor



Pipette Controller

- Convenient push button controls
- Multiple dispensing mode
- Easily cleanable
- NiMH Battery



PHP (Precise High Performance) Pipette Single & Multi-channel Pipettes

Autopipette



Key Features:

- Magnet assisted piston for consistently precise results
- Durable tip ejector made using special corrosion resistant alloy, protecting against chemical & physical corrosion
- Highly durable PVDF tip cone
- Easy cleaning
- Fully autoclavable

Single Channel:

- 0.1 to 2.5 µL
- 0.5 to 10 µL
- 2 to 20 µL
- 10 to 100 µL
- 200 to 200 µL
- 100 to 1000 µL
- 500 to 5000 µL
- 1000 to 10000 µL

8 and 12 Channels:

- 0.5 to 10 µL
- 2 to 20 µL
- 5 to 50 µL
- 10 to 100 µL
- 20 to 200 µL
- 30 to 300 µL



JIUPO is a national high-tech enterprise specializing in the research, development, production and sales of plant growth chambers, climatic chamber, environmental controlled rooms, plant growth lights and other series of products.

Climatic Chambers (Humidity & Temperature Chambers)



JIUPO Temperature and Humidity Chamber series is equipped with an advanced control system. It is mainly applied to experimental analysis, aging tests, and environmental simulation in university laboratories and scientific research institutions.

Precise control: PID system adjustment allows temperature and humidity

Temperature Range: 0 to 70 °C

Humidity Range: 10 to 95% RH

Volume: 100, 300, 600, 800, 1000, 1,600 and 2000 L

Number of shelves: 4-6 shelves

Option: Observation window

Pharmaceutical Stability Chamber



The pharmaceutical stability test chamber is designed for use in the pharmaceutical, medical, and biotechnology industries, as well as all related sectors within the life sciences field. Jiupo's pharmaceutical stability test chambers feature adjustable temperature and humidity settings, with customizable lighting options as needed. Combined with advanced insulation and isolation technology, they ensure long-term stability of temperature, humidity, and lighting within the chamber. The units are capable of continuous 24/7 operation.

Precise control: PID system adjustment allows temperature and humidity

Temperature Range: 0 to 70 °C

Humidity Range: 10 to 95% RH

Volume: 100, 300, 600, 800, 1000 and 2000 L

Number of shelves: 4-6 shelves

Lighting Source: Standard LED light (Intensity 0-100% adjustable, resolution in 1%),
Standard UVA light

Option: Observation window

Plants Growth Chambers



The pharmaceutical stability test chamber is designed for use in the pharmaceutical, medical, and biotechnology industries, as well as all related sectors within the life sciences field. Jiupo's pharmaceutical stability test chambers feature adjustable temperature and humidity settings, with customizable lighting options as needed. Combined with advanced insulation and isolation technology, they ensure long-term stability of temperature, humidity, and lighting within the chamber. The units are capable of continuous 24/7 operation.

Precise control: PID system adjustment allows temperature and humidity

Temperature Range: 0 to 70 °C

Humidity Range: 10 to 95% RH

Volume: 100, 300, 600, 800, 1000 and 2000 L

Number of shelves: 4-6 shelves

Lighting Source: Standard LED light (Intensity 0-100% adjustable, resolution in 1%)

Option: Observation window

Seed Preservation Chamber



The seed preservation chamber is a specialized instrument designed for the safe and standardized storage of seed samples. The JIUPO Seed Preservation Chamber features defrosting, delay function, over-temperature alarms, and time correction.

Temperature Range: -10 to +15 °C

Volume: 300, 600, 800, 1000, 1600 and 2000 L

Options: Observation window

Plant Growth Lighting Solutions



Lighting Panel for chamber

- Color Type:**
- One color
 - Three colors
 - Four colors
 - Full Spectrum
 - Eighteen colors



UFO Type Lamp

- The UFO type of lamp is ideal for vertical farm applications, but is also suitable for a wide range of other horticultural applications including growth chambers, glass greenhouse and outdoor farm.
- Color type: Full spectrum
 - Rated power: 80 W, 130 W and 170 W
 - IP68

Climate-Control Chamber with Plant Phenotyping System

The product includes an integrated environmental control unit, a data acquisition unit (RGB imaging camera, thermal imaging camera, and other imaging cameras), as well as a corresponding software control platform and image processing unit.

It collects and analyzes plant phenotype data, such as morphology, color, and texture, in real-time or at regular intervals, helping users acquire phenotypic information over different periods or throughout the full growth cycle.



Overhead HD Camera & Customize Light Panel



360 degree Rotating Platform



Lift-side Camera

Functional Features:

- Intelligent Environmental Control
- Smart control of temperature, humidity, lighting, and gas composition to create optimal growth conditions, enabling full-cycle plant cultivation and phenotype analysis.
- High-Precision Imaging
- Equipped with cameras of >12 MP resolution and autofocus lenses, with software-controlled camera parameter adjustments for capturing high-resolution plant phenotype images.
- Multi-Angle Data Acquisition
- Features high-precision motor-driven imaging platforms that rotate 360° and Y-axis camera elevation adjustment, ensuring comprehensive multi-angle imaging for plants of varying sizes.
- Dynamic Growth Monitoring
- Supports scheduled and manual image capture, as well as real-time video recording, facilitating continuous phenotype monitoring and data recording across the entire plant growth cycle.
- High-Throughput Data Analysis
- Simultaneously captures images of multiple plants and performs batch analysis of various phenotypic traits.

High-Throughput Data Analysis



Export analysis data

| 显示植物 | 全部植物 | 全部植物 | 全部植物 | 全部植物 | 全部植物 | 全部植物 | 全部植物 | 全部植物 | 全部植物 |
|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|
| 植物名称 | 182 | 184 | 218 | 284 | 285 | 286 | 322 | 322 | 475 |
| 植物数量 | 3 | 3 | 4 | 1 | 1 | 1 | 9 | 9 | 75 |
| 平均叶面积 | 40 | 42 | 25 | 8 | 9 | 9 | 76 | 28 | 50 |
| 平均叶周长 | 9 | 9 | 4.26617 | 8 | 8 | 8 | 4.77778 | 4.82333 | 6.4 |
| 最大叶面积 | 45 | 45 | 5 | 9 | 9 | 9 | 31 | 7 | 7 |
| 最大叶周长 | 7 | 8 | 4 | 8 | 9 | 9 | 7 | 2 | 1 |
| 植物叶面积 | 2626.96 | 2522.45 | 304.762 | 859.6 | 1051.8 | 745.555 | 4764.44 | 405.69 | 3801.8 |
| 平均叶面积 | 7302.02 | 6.40063 | 8.007781 | 8.87099 | 4.82066 | 3.76889 | 11.9028 | 1.0277 | 2.84624 |
| 最大叶面积 | 945.73 | 845.495 | 74.6075 | 155.6 | 195.18 | 745.555 | 147.842 | 124.28 | 274.775 |
| 最大叶周长 | 86.1 | 86.882 | 51.4922 | 155.6 | 195.18 | 745.555 | 274.718 | 8.9529 | 453.988 |
| 植物叶周长 | 2626.96 | 2522.45 | 304.762 | 859.6 | 1051.8 | 745.555 | 4764.44 | 405.69 | 3801.8 |
| 平均叶周长 | 9187.12 | 6.40063 | 8.007781 | 8.87099 | 4.82066 | 3.76889 | 11.9028 | 1.0277 | 2.84624 |
| 最大叶周长 | 945.73 | 845.495 | 74.6075 | 155.6 | 195.18 | 745.555 | 147.842 | 124.28 | 274.775 |
| 最大叶周长 | 86.1 | 86.882 | 51.4922 | 155.6 | 195.18 | 745.555 | 274.718 | 8.9529 | 453.988 |
| 最大叶周长 | 800 | 300 | 800 | 800 | 1000 | 300 | 300 | 300 | 800 |

Customization Imaging

Imaging solutions: RGB visible light imaging, infrared thermal imaging, 3D imaging, chlorophyll fluorescence imaging, multispectral imaging and hyperspectral imaging.



RGB Imaging

Thermal Imaging

3D Imaging

The Omnia Optifill touch dispensern · Intuitive. Convenient. Flexible

Ultrapure and Pure Water with real-time TOC Monitoring

OmniaTap xstouch Blue line is the ideal system when both pure water and ultrapure water are required, but in relatively small amounts.

Features:

- OptiFilltouch dispenser is standard
- 7-litres pure water tank
- Real time TOC monitoring
- Fully recirculation
- Leakage sensor is standard

Water quality:

- Type II: up to 10-15 MΩxcm
- Type I : 18.2 MΩxcm

Flow rate:

- Type II: 8 L/hr.
- Type I: up to 2.0 L/min

2 different models:

- OmniaTap XStouch UV-TOC,
- OmniaTap XStouch UV-TOC/UF



Type I + II

Ultrapure with real-time TOC Monitoring

OmniaPure xstouch Blue line is for highest quality pure water that fulfils the demands of analytical and life science laboratory.

Features:

- OptiFilltouch dispenser is standard
- Real time TOC monitoring
- Fully recirculation
- Resource-saving filter volume
- Leakage sensor is standard

Water quality:

- Type I : 18.2 MΩxcm

Flow rate:

- Type I: up to 2.0 L/min

2 different models:

- OmniaPure XStouch UV-TOC,
- OmniaPure XStouch UV-TOC/UF



Type I

Ultrapure and Pure Water

OmniaLabED+ is the larger allrounder for the complete laboratory. The perfect 100 L tank system for both Type II and Type I applications.

Features:

- OptiFill dispenser is standard
- Continuous residual salts removal by EDI
- Leakage sensor is standard
- UV lamp is standard

Water quality:

- Type II: up to 10-15 MΩxcm
- Type I : 18.2 MΩxcm

Flow rate:

- Type II: 20, 40 L/hr.
- Type I: up to 2.0 L/min



Type I + II

Pure Water Type II

OmniaTap II is the compact system with integrated reverse osmosis and deionization for type II pure water. The flexible dispenser allows a very practical withdrawal of water at the push of a button via the digital control of the dispenser. The removal takes place at the push of a button via the digital control of the dispenser.

Feature:

- OptiFill dispenser is standard
- The available choice of storage tanks (10, 30 or 60 liters) with recirculation keeps the quality permanently at a high level
- Leakage sensor is standard
- UV lamp is standard

Water quality:

- Type II: up to 10-15 MΩxcm

Flow rate:

- Type II: 6, 12, 20 L/hr.
- Dispensing Performance: up to 2.0 L/min

3 different models:

- OmniaTap II 6 UV
- OmniaTap II 12 UV
- OmniaTap II 20 UV



Type II



Researchers around the world rely on our tools, services and expertise to do their best science — from familiar experiments to novel approaches. We offer one of the broadest portfolios in the industry for scientists and our presence extends well beyond the labs as our innovations touch individuals around the world.

Millicell DCI Digital Cell Imager



The Millicell® DCI Digital Cell Imager provides quick, objective determination of common cell culture parameters including confluency, cell count, and morphology. Measure and assess your cell cultures with ease. Save time and conserve precious culture sample with in-vessel measurement. Track and record cell culture data using streamlined data management web tools. Analyze cell growth trends with instant access to historical data for more consistent cell cultures.

- Objective confluency measurements and estimated cell counts
- Faster analysis
- Hemocytometer or in-vessel measurement
- Adherent cell, spheroid, and organoid cultures
- Convenient, web-based cloud service for data storage and retrieval of archival data and images



Slide bars allow you to quickly adjust measurements based on cell size and mask area



An automatic grid finder can be used for hemocytometer-based measurements

Handheld Automated Cell Counter



The Scepter™ 3.0 cell counter is your portable device option for fast, accurate cell counting. The Scepter™ cell counter provides true automation without the error that accompanies vision-based systems. With its microfabricated, precision-engineered sensor, the Scepter™ cell counter does all the work and delivers accurate and reliable cell counts in seconds.

Coulter counter precision, in your hand The Scepter™ sensors use precision microfluidics to measure the electrical impedance of individual cells. This technology gives on-demand outputs of cell volume, cell diameter and cell concentration—all within the cell culture hood.



VILBER is a leading life science company that develops and manufacture imaging and analyzing systems for fluorescence, chemiluminescence and bioluminescence applications.

Gel Documentation Imager



The **Quantum** is the laboratory standard for DNA and protein gel imaging. The system is based on an advanced set of performance ideal to achieve high fidelity and quantitative scientific measurement.

- up to 6 excitation channels in the UV and visible area.
- A large number of dyes could be used such as Ethidium Bromide, Sybr-Safe, Sybr Green, Gel-Red, Gel-Green, Sybr-gold, etc.
- Scientific grade camera : Up to 20 megapixels, 16-bit, Scientific TIFF file or proprietary file format, Motorized zoom lens with feedback

Chemiluminescence & Fluorescence Documentation Imager



The **FUSION FX** is ideal for quantification grade imaging. Chemiluminescent blotting data poses distinct challenges in producing quantifiable, reproducible data.

- Automatic imaging mode compensates the time course of the chemiluminescence reaction by adjusting the exposure time while maintaining the larger possible image dynamic.
- Includes our unique Apps Studio approach to imaging. The Apps Studio is a library which contains 40 different protocols for your blot, gel and other bioluminescence samples. The protocol oriented Apps Studio ensures reproducibility and one click acquisition for the best ease of use.

Circulating Waterbaths

Our series of high-precision temperature control systems offer accurate and safe temperature control. The product portfolio is designed for any application, giving precise temperature control, reliability, quality and safety. We offer a wide range of affordable solutions from entry-level through to advanced products, with accessories to match specific needs.



T100
Temp: 0 to 100 °C
Stability: +/- 0.05 °C
Level Sensor



TC120
Temp: -15 to 120 °C
Stability: +/- 0.05 °C
Level Sensor
Timer: 1 min. to 99 hr



TX150
Temp: -15 to 150 °C
Stability: +/- 0.01 °C
Level Sensor
Timer: 1 min. to 99 hr
Programmable via PC



TX200
Temp: -15 to 200 °C
Stability: +/- 0.01 °C
Level Sensor
Timer: 1 min. to 99 hr
Programmable via PC -
(10 programs - 100 segments)



Stainless Steel Tanks

Capacity:

- 5 L
- 12 L
- 18 L
- 26 L
- 38 L



Immersion Cooling

- C1GR: Cooling System
Temp.: 0 to 40 °C
C2GR: Cooling System
Temp: -15 to 40 °C

Accessories

Waterbaths



Water Baths

- Temp: ambient + 5 to 99 °C
- Resolution: 0.1 °C
- Stability: +/- 0.2 °C
- Tank Material: Stainless Steel
- Tank capacities: 2, 5, 12, 18, 26 and 34 L



Shaking Water Baths

- Temp: ambient + 5 to 99 °C
- Stability: +/- 0.1 °C
- Speed: 20 to 200 rpm
- Tank Material: Stainless Steel
- Tank capacities:
Liner: 12, 18 L
Orbital and Liner: 26 L

Densitometers



DEN-1 and DEN-1B

- DEN-1 and DEN-1B for measuring turbidity of cell suspensions in a variety of life science applications
- Turbidity in the range of McFarland units

16 or 18 mm. Dia. tubes



DEN-600

- Estimated total number of cells (OD600)
- Turbidity measurement method (McFarland (McF))
- Protein concentration measurement (Bradford protein assay method)
- Acceptable tube: round bottom, conical vials, falcon tubes and cuvette

10 mm path cuvettes

UV PCR Cabinets



Advanced range of benchtop UV cabinets. Provides aseptic conditions for a range of biomedical and biochemical procedures. The innovative dual UV system, with built-in UV-air recirculator delivers constant decontamination of air volume inside the cabinet at the same time as working on traditional surface UV decontamination when the door is closed.

Applications:

- Life-science - germicidal and virucidal
- inhibition of DNA and RNA contamination
- operations with DNA/RNA amplicons

Key features:

- Stainless steel frame and working area
- Glass with UV-Protective film
- UV lamp
- Integral power socket
- Quiet operation
- Digital timer

Shaking Incubators



Stable and reliable with programmable time, temperature and shaking speed. This orbital shaker-incubator is ideal for vigorous or even mixing and incubation of samples in a variety of flasks and vessels.

ES-20:

- rpm: 50 to 250 rpm
- Temp range: +5 ambient temp. to 42 °C
- Stability: +/- 0.5 °C
- Load capacity: 2.5 kg

ES-20/80:

- rpm: 50 to 400 rpm
- Temp range: +5 ambient temp. to 80 °C
- Stability: +/- 0.1 °C
- Load capacity: 10.6 kg

Shakers



Orbital Shakers

- Suitable for use in different laboratories in microbiology, chemistry, immunology, biochemistry and molecular biology
- Loads: up to 8 kg
- Speed: 20 to 250 rpm
- Orbit: 20 mm



CO₂ Shakers

- Provides regulated orbital motion of the platform and is designed for use specifically in CO₂ incubators.
- Speed: 50 to 250 rpm
- Timer: 1 min to 96 hours
- Orbit: 20 mm.



2D and 3D Rotators

- Designed for laboratory work in the areas of biochemistry, immunochemistry, microbiology and genetic engineering
- Speed: 1 to 100 rpm
- Ambient operating temperature range of 4 to 40 °C allows use in cold room or incubators.



EVE™ uses state-of-the-art optics and image analysis for cell counting. It is a benchtop sized counter, designed to measure live, dead and total counting with accuracy and precision.

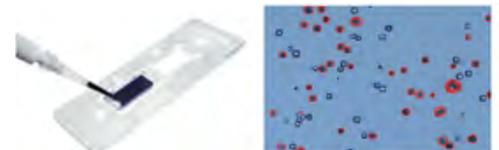
Automatic Cell Counter

Applicable for broad range of cell sizes and types from Primary (tissue, blood) cell lines to stem cells)

- 500 test results storage
- Transfers the data to PC using USB drive

Specifications:

- Counting time: < 20 seconds
- Cell measurement range: 1 x 10⁴ to 1 x 10⁷ (cells/mL)
- Cell size range: 5 to 60 μm



Biological Safety Cabinets



Biological Safety Cabinet Class 2 A2 (Airstream G4)

The new BSC with Centurion Touchscreen controller is NSF-certified with standby height that easily activates standby mode, an ergonomic work zone that is comprised of bright illumination using industry-leading dimmable LED combined with raised, durable, stainless-steel armrest. It also comes with wider model options offering stainless steel (S-series) and glass (E-series) side wall variants.

- Antimicrobial Powder Coating
- Tray Support beams and holder
- Frameless, shatterproof, and UV-absorbing tempered glass
- ULPA Filter: 10x filtration efficiency of HEPA
- Touchscreen Controller: Displays key safety information graphically on one screen
- Available size: 90 cm., 120 cm., 150 cm. and 180 cm.



CO₂ Incubators



CO₂ Incubator

- 7-inch touchscreen controller
- Temperature: +5 ambient temp. to 60 °C
- CO₂ control: 0 to 19.5%
- Capacities: 50 L, 170 L and 240 L
- Direct Heat
- IR Sensor
- SwiftCon™ 90°C Moist Heat Decontamination Cycle
- Stainless Steel Chamber



CO₂ Incubator with Integrated Cooling System

- Temperature: 8 to 60 °C
- CO₂ control: 0 to 19.5%
- Capacities: 170 L and 240 L
- Direct Heat
- IR Sensor
- Stainless Steel Chamber



CO₂ Incubator with High Heat Sterilization

- 7-inch touchscreen controller
- Temperature: +5 ambient temp. to 60 °C
- CO₂ control: 0 to 19.5%
- Capacities: 170 L and 240 L
- High Heat Sterilization: 180 °C
- Direct Heat
- IR Sensor
- Stainless Steel Chamber

Key features

- Precise Temperature and CO₂ Control: Ensures optimal conditions for sensitive cell cultures.
- Stainless Steel Chamber: Provides a durable and easy-to-clean surface, reducing contamination risk.
- IR Sensor Technology: For accurate and stable CO₂ level detection.
- Optional High Heat Sterilization: Up to 180°C, ideal for decontaminating the incubator.
- Integrated Cooling System (if applicable): Ensures a wider temperature range, suitable for a variety of cell culture needs.

Ductless Fume Hoods



Standard Ductless Fume Hoods

Ductless Fume Hood utilizes a carbon filtration system to remove toxic chemical fumes and recycle clean air back to the laboratory. This airflow principle provides operator and environment protection.

- Has a main carbon filter
- Optional VOC Sensor
- Available size: 2, 3, 4, 5 and 6 ft.



Mobile Ductless Fume Hoods

This compact-sized and simplified ductless fume hood is complete with internal lighting, worktop, and microprocessor control system. It also features a double-hinged sash with arm ports that provides good working flexibility and high containment levels.

- Has a main carbon filter
- Ergonomic arm ports and cable pass-throughs
- Has mobile cart
- Available size: 3 and 4 ft.

Laboratory Refrigerators and Freezers



Laboratory Refrigerator

- Temperature range: +2 to 15 °C
- Forced air cooling design
- Anti-condensation design
- Password Lock
- Intelligent automatic defrost
- LED display and control buttons
- Backup battery supports alarm and display functions up to 72 hours after power failure
- Available size: 398 L, 740 L and 1386 L



Laboratory Freezer (HF2 Series)

- Temperature range: -10 to -25 °C
- Forced-air design
- Key lock
- Intelligent automatic defrost
- Internal LED Lighting
- Touchpad key controller with LCD
- Available size: 128 L, 347 L 620 L and 1355 L



Laboratory Freezer (HF3 Series)

- Temperature range: -25 to -40 °C
- Forced-air design
- Key lock
- Intelligent automatic defrost
- Internal LED Lighting
- Touchpad key controller with LCD
- Available size: 128 L, 347 L 620 L and 1355 L



Dual-System Ultra-Low Temperature Freezer

- Temperature range: -40 to -86 °C
- Dual-system independent compressors
- 7-inch LCD touch screen display
- Five-layer silicone door seals with heated door frame and inner doors
- Automatic restart and parameter memory retention after power failure
- 2 inner doors
- Available size: 410 L, 585 L, 730 L and 840 L



OHAUS Corporation is a global leader in manufacturing an extensive line of weighing products, laboratory equipment and analytical instruments that meet and surpass the weighing and measurement needs of a broad range of industries, including laboratory, industrial, educational and food preparation.

Laboratory Balance



Precision Balances
Readability: 0.01 g



Precision Balances
Readability: 0.001 g



Analytical Balances
Readability: 0.1 mg



Semi-Micro Analytical Balances
Readability: 0.01 mg

Laboratory equipment



pH meter – Aquasearcher™

- Display: LCD
- Electrode Input: BNC
- AB23pH
 - Measuring Range: 0.00 to 14.00 pH
 - Resolution: 0.1 pH
 - Temperature: 0.00 to 100.0 °C
- AB41pH
 - Measuring Range: -2.000 to 20.000 pH
 - Resolution: 0.1/0.01/0.01 pH
 - Temperature: -10.0 to 125.0 °C



Vortex Mixer – VMXNAL

- Controller: analog
- Speed: 300 to 2800 rpm
- Orbit: 4.9 mm
- Weight: 4 kg



Hotplate stirrer – Guardian2000

Rugged and reliable analog hotplates and stirrers for general purpose heating and stirring

- Top plate: Ceramic
- Working area: 17.8 x 17.8 cm
- Max load: 15 L
- Speed: 200 to 1600 rpm



1-, 2- Block Dry block Heaters

Versatile block heaters designed for everyday use with accessories for every application

- Display: LED display
- Temp: Ambient +5 to 120 °C
- Stability: +/- 0.2 °C
- Uniformity: +/- 0.1 °C

Masterflex products are known for their accuracy, durability, and ease-of-use. They can be seen in facilities around the world particularly in the pharmaceutical, biopharmaceutical, food & beverage, and chemicals industries. Masterflex products can also be used in any industries R&D and process where fluidics is required.



Positive Displacement

Microflow Ismatec Series
> 0.0001 to 300 mL/min



Scale-up Simplicity

High-Accuracy
L/S Series > Up to 5 LPM



Robust Connectivity

Powerful Systems I/P Series
> Up to 26 LPM



Highest Flow Rate B/T Series
> Up to 42 LPM

L/S series Peristaltic pumps



Programmable Digital Peristaltic pumps

- Max rpm: 100 or 600 rpm
- Flow rate : 0.06 to 580 mL/min (for 100 rpm)
0.006 to 3400 mL/min (for 600 rpm)
- Pump Head Accepted : 1 to 4
- Programmable: Volume dispense, Copy dispense, Time interval on/off, Continuous dispense

Applications:

- Pharma / Biopharma processing
- Foods/Chemicals/Water/
- Agricultural Industrial
- R&D, and all liquid lab transfer
- etc.



MasterSense Laboratory Peristaltic pumps

Reimagine fluid handling-operate, collaborate and connect with ease

- Intuitive touch-screen interface – quick and easy to program
- Operational models include continuous run, volume dispense, and time dispense

- Operational modes: Continuous run, Volume dispense and Time Dispense Batch Control and Interval/off time in volume and time modes
- Antidrip and speed ramping available in volume mode

I/P Peristaltic pumps



- RPM : 0.1 to 650 rpm
- Flow rate : 0.0006 to 26 LPM
- Pump Head Accepted : up to 2
- Programmable
- IP33 or 66
- Real-time pump control and monitoring with MasterflexLive

Applications:

- Pharma/Biopharma Process
- Foods/Chemicals/Water/Agricultural Industrial
- Filtration system
- etc.

B/T Peristaltic pumps



- Flow rate : 0.3 to 42 LPM
- Digital interface with graphical LCD shows pump performance and operating mode – continuous run, timed dispense, copy dispense, or volume dispense
- Remote control available using analog communication:
- Voltage, current and contact closure
- IP56

Applications:

- Dispensing and filling
- Pharma/Biopharma Process
- Foods/Chemicals/Water/Agricultural Industrial all liquid lab transfer
- etc.

Peristaltic pump tubing



Masterflex Pump tubing for a wide range of Applications and Markets:

Pharmaceutical, Medical research, Industrial, Biotech, Chemical processing, Water treatment, Printing, Food & Beverage, Environmental and Semiconductors

Formulation:

- | | | |
|-------------------------------------|----------------|------------|
| • Silicone Peroxide-cured | • PharmaPure | • Tygon |
| • Silicone Platinum-cured | • Puri-flex | • PTFE |
| • Biopharma Silicone Platinum-cured | • Puri-Prene | • Viton |
| • Pharmed BPT | • C-flex | • Versilon |
| | • Chem-Durance | • GORE |

Lab S - Compact Peristaltic pumps



- Flow rate: 0.0024-930 ml/min
- 3 digital LED display motor speed, Mechanical keypad control, multiple external control for selection.
- Easy to install pump head, stable flow rate.
- Lower power, silent working.
- High definition OLED display screen.
- Convenient to adjust the speed through digital knob.

Lab M - Basic Peristaltic pumps



- Flow rate: 0.0053-3100 ml/min
- 3 digital LED display motor speed, Mechanical keypad control, multiple external control for selection.
- Timing function, the time range of 0.5 seconds to 999 seconds can be used as a simple dispensing.
- Timing function, can be used for simple dispense. Has both RS232 and RS485 communication mode.
- Streamlined body design, with ABS Plastic Shell and add UV Spray Coating.
- Full speed button: with full filling and emptying function.

Lab V - Intelligent Peristaltic pumps



- Flow rate: 0.0053-3100 mL/min
- Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen.
- 4-working modes: Fixed volume, volume, dispensing, speed dispensing, and timing start/stop functions meet complex transmission and dispensing requirements.
- Intelligent calibration function.
- Streamlined body design, with ABS Plastic Shell and add UV Spray Coating.
- Circuit board 3 layers of paint spraying process, dust proof, moisture proof, anti-static, corrosion resistance.



DK INFUSETEK is a global supplier of laboratory syringe pumps, providing professional micro-flow control solutions. The intelligent syringe pump with infusion/withdrawal mode, stainless steel body, and color LCD screen. It can install and fix different type of injectors or syringes in the same time, and it is suitable for transferring micro flow rates with high precision.

Working mode: Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion

Channel number: 1, 2, 4, 6, 8, 12 and 24

Syringe size: 10 μ L to 150 mL (1-, 2- channels)
: 10 μ L to 10 mL (4- to 24-channels)

Tubing Connector and accessories



Tubing & Hose cutter (Minicut)

- Cuts up to 5/8" O.D.
- Made of durable, lightweight polypropylene with a steel blade
- Safely & easily cuts flexible or semi-rigid PVC, rubber, silicone, TPRs, polyurethane, polyethylene, nylon, fluoropolymer, polypropylene, polybutylene, and more



Tubing & Hose cutters (Easy cut)

- Cuts up to 1-1/2" OD
- Handle made of strong, tough nylon
- Safely & easily cuts flexible or semi-rigid PVC, rubber, silicone, TPRs, polyurethane, polyethylene, nylon, fluoropolymer, polypropylene, polybutylene, and more



Male Luer connector

- Material: PVDF
- Autoclavable
- Acceptable tubing ID: 2.5 to 4 mm



Female Luer connector

- Material: PVDF
- Autoclavable
- Acceptable tubing ID: 2.5 to 4 mm



Straight connector

- Material: PP
- Autoclavable
- Acceptable tubing ID: 1.5 to 1.5 mm., 3.0 to 3.0 mm., 6.5 to 6.5 mm., etc.



Reducing connector

- Material: PP
- Autoclavable
- Acceptable tubing ID: 5 to 6 mm., 6 to 8 mm., 6 to 12 mm., 12-25 mm., etc.



T-connector

- Material: PP
- Autoclavable
- Acceptable tubing ID: 1.5 to 1.5 mm., 3.0 to 3.0 mm., 6.5 to 6.5 mm., etc.



Y-connector

- Material: PP
- Autoclavable
- Acceptable tubing ID: 1.5 to 1.5 mm., 3.0 to 3.0 mm., etc.



Female Luer x cap

- Material: PP
- Autoclavable



Luer connector for needle

- Material: PP
- Type: connection, taper



Tri-clamp, Mini Tri-clamp connector

- Material: PVDF
- Autoclavable
- Tri-clamp: Port 1 (1-1/2") x 1/8" to 1"
- Mini Tri-clamp: Port 1 (3/4") x 1/8" to 1"



Sanitary Clamp

- Compatible with metal and plastic Tri-clamp connector
- Autoclavable



2-ways or 3-ways valve connector

- Material: PC



Snapper Hose Clip

- Material: Delrin(R) (R)
- It can be from -50 to +95°C.
- Can withstand alkalis, acids, oils, etc.
- Acceptable hose OD 5.8 to 23.0 mm



Roller clamp

- Material: PBT (Polybutylene terephthalate)
- Autoclavable
- Acceptable tubing OD: 4.5 to 14 mm



Flow Control Pinch Valve

- It has a fine adjustment scale for the flow rate, making it easy to reproduce the setting.
- Acceptable tubing OD: 4 to 12 mm.



One touch stopper

- Autoclavable
- Fits up to OD 2, 4, 8 mm



Pinch cock Hoffmann Type

- Material: Yellow copper nickel plating
- Screw type
- Acceptable tubing up to 54 mm. (OD)



Stainless steel Hose Clamp

- Stainless steel (SUS304)
- OD: 8 to 304 mm



Autoclavable Cable Ties

- Polypropylene (PP) cable ties resist a number of chemicals and are UV-resistant

The HORIBA Group of worldwide companies provides an extensive array of instruments and systems for applications ranging from automotive R&D, in-vitro medical diagnostics, semiconductor and metrology, to a broad range of scientific R&D and QC measurements.

Zetapotential & Nano particle size Analyzer



nanoPartica SZ-100V2. A highly advanced analyzer solves the mysteries of the nano-world. A single device analyzes the three parameters that characterize nanoparticles:

- **Zeta Potential Measurement – 500 to + 500 mV**
Analysis of sample volumes as small as 100 μ L using HORIBA-developed microelectrophoresis cells.
- **Particle Size Measurement Range 0.3 nm to 10 μ m**
The SZ-100V2 Series measures particle size and particle distribution width by dynamic light scattering (DLS).
- **Molecular weight 1×10^3 to 2×10^7 Da**
Absolute molecular weight (Mw) and the second virial coefficient (A^2) are obtained by performing static light scattering measurement as a function of sample concentration and preparing Debye plots.

Fluorescence and Absorbance Spectrometer



Duetta™ is a 3-in-1 spectrofluorometer that combines the functions of fluorescence and absorbance spectrometers simultaneously. Thanks to its high-speed, built-in CCD detector, the Duetta can acquire a full spectrum from 250 nm to 1,100 nm in less than one second, making it the fastest fluorescence spectrometer on the market.

Duetta™ uses A-TEEM™ technology to acquire absorbance, transmission, and fluorescence EEMs simultaneously – a true 3-in-1 instrument that corrects for the inner filter effect on the fly.

Simultaneous Multi-Laser Nanoparticle Tracking Analyzer (NTA)



The **ViewSizer 3000** features simultaneous measurement with three lasers to collect the most accurate distribution and concentration information over a wide range of sizes within the same sample. Where the signal from a particle is too bright and saturates the detector from one laser, the software automatically uses data from a lower power laser to ensure the most accurate size and concentration information. On the other hand, when scattering from one laser is too weak for detection, the software uses data from a higher power laser to accurately track the particle.

Raman Spectrometer



MacroRAM™ (Affordable Benchtop Raman Spectrometer) is an easy-to-use macro Raman spectrometer for fast and reliable Raman analysis. Perfect for bulk analysis of solids, liquid solutions, powders, and gels, MacroRAM provides the flexibility and sensitivity to handle virtually any type of sample. With a compact and robust design including Class 1* laser safety, MacroRAM is ideal for use in most environments, from undergraduate teaching labs to industrial QC and manufacturing.

X-ray Fluorescence Analyzers



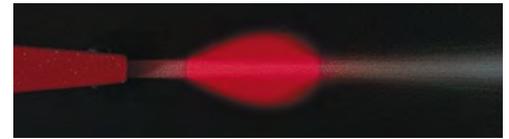
MESA-50 Series is a portable benchtop energy dispersive X-ray fluorescence (EDXRF) analyzer with ultimate user-friendly operation. It achieves a super compact footprint without compromising X-ray safety thanks to the X-ray shields compliant with IEC 61010-1/JAIMAS 0101-2001.



Unique feature and basis for the business success was the invention of dry dispersion, which opened a new dimension to particle size analysis in terms of speed, precision and product adaptation.

RODOS is the original by the inventor of dry dispersion. With this breakthrough innovation, Sympatec has opened up dry applications to particle measurement technology – as early as 1982. Since then, it has been possible to dry measure powders, fibres and granules appropriate to the product, with both laser diffraction and dynamic image analysis. No other method of dispersing is anywhere near as powerful or achieves such an efficient as well as gentle dispersion from the submicron to millimetre range.

The pioneer of dry dispersion



Particle size analyzers for Dry/Wet/Aerosol samples

Particle size analyzers, **HELOS Series** – with its classical parallel beam laser diffraction set-up – offers a powerful technology for particle size distribution analysis of powders, granules, suspensions, emulsions, sprays and numerous other particulate systems. A size range from below 0.1 µm to 8,750 µm is mastered.

Best possible agreement with absolute values is achieved using the more powerful evaluation algorithms of FREE and MIEE.

Applications:

- Cement
- Powder
- Powder Coating
- Graphite
- Coffee
- Lactose
- Pigments
- PTFE
- Micro-cellulose



HELOS/BR Sprayer Rotor (Nasal Spray and Inhaler application)

HELOS/BR offers meaningful and reproducible analysis of the size distribution of droplets in nasal and pharyngeal pump sprays in the range from 0.25 µm to 875 µm. The system can be flexibly adapted for a wide range of different atomizer types and simulates the manual application of the relevant spray with a force and trajectory release with the actuator SMACTOR.

Application:

- Nasal Spray
- Spray
- Inhaler
- Droplent
- Injectors
- Agricultural spray



QICPIC - Dynamic Image Analyzer

Applying components of highest performance our modular particle size and shape analyser **QICPIC** develops the full power of dynamic image analysis. High speed image analysis using a pulsed light source with illumination times in the nanosecond range the particles are optically frozen while a high-resolution, high-speed camera captures the razor-sharp particle projections with a frequency of up to 500 frames per second.

Applications:

- Pharmaceutical and Chemical Industry
- Powder metallurgy
- food additive
- food and Beverage



Nanophox CS - Nanoparticle size and stability Analyzer

The **NANOPHOX CS** combines photon cross-correlation spectroscopy (PCCS) with a innovative, patent pending polarisation-separated backscattering technology (Psb PCCS), which allows for high resolution nanoparticle size analysis in high concentrated suspensions and emulsions ranging from 0.5 nm to 10,000 nm.

NANOPHOX CS covers the vast particle size range of 0.5 nm to 10,000 nm. The size analysis is independent of concentration and masters high concentrations up to approximately 40 % by volume.

Applications:

- Ophthalmic emulsion
- Acrylic emulsion
- Ink
- Casein Proteins
- Nanodrug Delivery



Laboratory furniture

We always focus on exploring more advanced laboratory intelligent overall solutions, mainly including scientific research laboratories.

Modular and custom laboratory furniture and design, including:

- Laboratories workbench
- Island bench
- Cabinet Assemblies
- Sink Cabinet Assemblies
- Fume hood
- Chemical storage cabinets
- Walkin hoods
- Upper wall cabinets
- Anti-Vibration table
- Canopy hoods
- Scrubber units
- Safety shower and Eye washer
- etc.



Electric Retorts

ทางบริษัทฯ จัดจำหน่ายและติดตั้ง เครื่องฆ่าเชื้อแบบใช้ไอน้ำ สำหรับโรงงานอาหาร และสำหรับการเรียนการสอน ซึ่งผ่านการออกแบบจากวิศวกรผู้เชี่ยวชาญ สามารถใช้ได้กับภาชนะบรรจุอาหารหลากหลายรูปแบบ อาทิเช่น บรรจุภัณฑ์ถุง ขวดแก้ว กระป๋อง เป็นต้น โดยทางบริษัทฯ จัดจำหน่ายเครื่องฆ่าเชื้อแบบใช้ไอน้ำหลายรูปแบบ ได้แก่

- เครื่องฆ่าเชื้อแบบใช้ไอน้ำโดยตรง
- เครื่องฆ่าเชื้อแบบสเปรย์น้ำ
- เครื่องฆ่าเชื้อแบบสเปรย์น้ำและใช้ไอน้ำโดยตรง
- เครื่องฆ่าเชื้อแบบหมุน
- ระบบควบคุมเครื่องฆ่าเชื้อ (ตู้ Control) ด้วย



Steam Boilers

ทางบริษัทฯ รับออกแบบ และผลิต Steam Boiler ในสำหรับการเรียนการสอน งานวิจัย และระดับอุตสาหกรรม ได้แก่

- ชนิดใช้กระแสไฟฟ้า
- ชนิดใช้แก๊สหุงต้ม
- ชนิดใช้ปิโตรเลียม

โดยทีมงานวิศวกรชำนาญการ รวมถึงการตรวจสอบภาพ Boiler ตามข้อกำหนดของกรมโรงงาน



Laboratory Water Purification (RO and DI Water)

Aqua2Pure - Laboratory Water Purification

Key Feature:

- Capacity: 15-20 L/hr.
- Water quality:
 - RO: 7 to 25 $\mu\text{s}/\text{cm}$
 - DI: 1 to 18.2 $\text{M}\Omega\text{cm}$ (@ 25 °C)
- Booster pump
- Display: LCD
- Reservoir: 50 L with level sensor



Serological Pipette is made from ultra-pure polystyrene material sterilized by E beam sterilization. It has sterility assurance level of SAL 10⁻⁶. Widely used in cell culture, bacteria culture, clinical, scientific research, other biological fields, etc.

Accuance - Serological Pipette

Key Feature:

- Clear and accurate two-way graduation
- Material: PS (Polystyrene)
- Filter barriers to prevent overflow
- Color coding identification
- Sterile
- RNase/DNase/Pyrogen-free

Volume:

- SERO-005: 5 mL
- SERO-010: 10 mL
- SERO-025: 25 mL
- SERO-050: 50 mL



Sterilized



GVS Filter Technology offers a full line of Laboratory Filtration and analysis products, providing an incomparable experience for the customer in the analytical, chemistry and life science laboratories.

Filters

Syringe filters (non-sterile)

- Type: non-sterile
- Membrane: CA, NY, MCE, PES, PTFE, RC, PVDF
- Pore size: 0.22, 0.45, 0.80, 1.20, 5.00 μm
- Housing Diameter: 13, 25 mm
- Housing: Acrylic, PP



Syringe filters (sterile)

- Type: sterile
- Membrane: CA, NY, MCE, PES, PVDF
- Pore size: 0.22, 0.45, 0.80, 1.20, 5.00 μm
- Housing Diameter: 25 mm
- Housing: Acrylic



Air vent filters

- Type: Sterile and non-sterile
- Membrane: Hydrophobic PTFE
- Pore size: 0.45 and 0.22 μm
- Connectors: 6 to 12 mm stepped barb
- Housing Diameter: 63 mm
- Sterilization: autoclave or ETO



Syringeless filters (SEPARA)

Rapid sample preparation

- Sample ready to use after filtration
- Pore size: 0.20 and 0.45 μm
- Housing: Polypropylene (PP)
- Membrane Material: NY, RC, PTFE, PVDF, PES



Vacuum filtration

GVS Vacuum Filters are very useful in large volume samples separation and purification.

- Membrane Material: PES, NY, MCE, PVDF and CA
- Pore size: 0.22, 0.45
- Capacity: 150, 250, 500, 1000 mL



Transfer membranes

Choice for all protein or blotting applications:

Western blotting, Northern blotting, Southern blotting, Chemiluminescent, Immunoblotting, UV crosslinking, etc. Membrane: Nitrocellulose, Supported Nitrocellulose, PVDF, Neutral Nylon, Reprobing Pore size: 0.45 and 0.22 μm



Plasticwares

Micro-centrifuge tubes 1.5 mL, 2.0 mL and 5.0 mL

- Material: PP
- Cap: safe-lock cap
- withstand centrifugation up to 15000xg (1.5/2.0 mL), 25000xg (5 mL)
- Temp. range: -86 °C to 121 °C



Sterilized

Multi-well cell culture plates

- Material: PS
- The lid well design ensure the gas exchange, reduce the risks of cross-contamination.
- Wells: 6-, 12-, 24-, 48-, 96-wells
- TC treatment and non-TC treatment



Sterilized

Multi-layer cell Factory

- Multi-layers cell factory is the adherent cells' ideal choice for industrial mass production, laboratory operations, and large-scale cell cultures.
- Material: PS
- Layer: 1, 2, 5, 10 and 40 layer
- TC treatment and non-TC treatment
- Optional: liquid transfer kit an etc.



Sterilized

High efficiency erlenmeyer flask

- Widely used in microbiology, cell biology and other fields, can be used with large capacity culture shaker, mainly suitable for suspension cell culture.
- Material: PETG
- Capacity: 3 L and 5 L
- Cap: PC vent cap
- Optional: liquid transfer kit an etc.



Sterilized

Baffled erlenmeyer flask

- Provide effective agitation for more efficient aeration to increased oxygenation and mixing..
- Material: PETG
- Capacity: 125 mL, 250 mL, 500 mL and 1000 mL
- Cap: seal cap or vent cap
- Optional: Closed sampling system



Sterilized

Cell culture dish

- Material: PS
- Easy to grip with gear ring-design, reduce contamination risk
- Size: 60, 100, 150 mm.
- TC treatment and non-TC treatment



Sterilized

Cell culture flask

- Material: PS
- Size: 25 cm², 75 cm², 175 cm² and 225 cm²
- Cap: Seal cap or Vent Cap
- TC treatment and non-TC treatment



Sterilized

Roller bottle

- Roller Bottle is a kind of disposable container which can meet the requirements of large-scale production of cells and tissues in both experimental and industrial production
- Material: PS
- Culture area: 850 ml, 1700 and 1750 mL
- TC treatment and non-TC treatment
- Cap: Seal cap



Sterilized

Conical erlenmeyer flask

- It is suitable for cell lines with high oxygen requirements. It is an economical cell culture tool that can be used to cultivate bacteria, fungi, animal and plant cells in suspension culture media, and can also be used for the preparation, mixing and storage of medium.
- Material: PETG
- Capacity: 125 mL, 250 mL, 500 mL and 1000 mL
- Cap: seal cap or vent cap
- Optional: Closed sampling system



Sterilized

Closed sampling system

- Provide thermoplastic tube or silicone tube for customers to choose.
- The acquiescent size of the liquid transfer line is IN 1/4", OD 7/16".
- Provide MPC/Luer connector for customers to choose.
- A variety of pipeline brands are available, the length and diameter of the pipeline can also be customized according to requirements.



Sterilized



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