



**ALCHEMIST SCIENTIFIC Co.,LTD**

**บริษัท แอลเคมิสท์ ไซออนติฟิค จำกัด**

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# 2025 Product Catalogue

**MASTERflex**<sup>®</sup>  
part of avantor

**VWR**<sup>™</sup>  
part of avantor

**stakpure**

**SYMPA T-C** Sympatec GmbH  
System | Partikel | Technik

**Cole-Parmer**<sup>®</sup>  
an antylia scientific company

**OHAUS**<sup>®</sup>

**GRANT**

**VILBER**  
Smart Imaging

**AS ONE**

**HORIBA**

**ESCO**  
LIFESCIENCES GROUP

**GVS**

## Product Catalogue 2025

Laboratory Equipment & Bioprocessing Solution

Research & Lab equipment / Biopharmaceutical Lab & Production / Life Sciences Lab / Lab Consumables

# ABOUT US

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 ไซเอนทิฟิค จำกัด

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# INDEX

	Laboratory and Industrial selection: Autodry Desiccators, Stirrers, Laboratory Gravity Control Device, etc.	Page 3-4
	Particle Size Analyzers	Page 5
	Peristaltic pumps, Tubing and Connector	Page 6-10
	Bioprocessing Solutions: Single-use bottle assembly, Single-use bags, Single-use tubes, Mixing systems	Page 10
	Ultrapure Water and Pure Water Systems	Page 11
	Ultrasonic Processors, Digital Thermometers, SPE, etc	Page 12
	Vortex Mixers, Hotplate stirrers, Dry block heaters, pH meters, Bead mill homogenizers, Laboratory balance, Centrifuges	Page 13
	Circulating water baths, Water baths, Incubator shakers, Shakers, Desitometer	Page 14
	Biological Safety Cabinets, CO <sub>2</sub> Incubators, Ductless Fume hoods, Refrigerator and Freezers	Page 15-16
	Syringe pumps	Page 16
	Serological Pipette	Page 16
	Cell Culture Labware, Syringe filter, Membrane	Page 16, 19
	Zetapotential analyzer, Fluorescence and absorbance spectrometer, Nanoparticle Tracking analyzer, Raman Spectrometer, X-ray Fluorescence analyzer	Page 17
	Millicell DCI: Digital Cell Imager	Page 18
	Gel Document Imaging, Chemiluminescence Document Imaging, UV crosslinker	Page 18
	Automatic cell counter	Page 18
	Laboratory furniture, Stem Retorts, Electronic Boilers	Page 19

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## Laboratory equipment



### Auto dry Desiccators (OH-3S)

- Auto dry type
- Material: Acrylic
- Reaching Humidity: 25% rH
- Dehumidifying: element membrane area 30x30 mm
- Capacity: 28 L



### Auto dry Desiccators (OH-SK)

- Auto dry type
- Material: Acrylic + Shading PVC
- Reaching Humidity: 25% rH
- Dehumidifying: element membrane area 30x30 mm
- Capacity: 28 L



### Auto dry Desiccators (UVOH-520SA)

- Auto dry type
- Material: Acrylic (cutting 520 mm or less)
- Reaching Humidity: 25% rH
- Dehumidifying: element membrane area 30x30 mm
- Capacity: 28 L



### Auto dry Desiccators (SP-BGFN-PG)

- Auto dry type
- Material: Acrylic
- Humidity setting: 20 to 50% RH
- Size: 490x460x50 mm



### Vacuum Desiccators

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



### Cool Incubators

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



### Mini Rotator (ACR-100)

- Rotation motion/shaking motion
- Compact and suitable for large volume tube
- It can be used in an incubator
- Tube size: 0.5 mL, 1.5/2.0 mL, 10/15 mL and 50 mL



### Hotplate (Large size)

- Plate material: Aluminum
- Max temp.: 300 °C
- Plate size: 400x300 mm.



### 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



### Vertical and Horizontal Shakers

- Speed: 300 rpm
- Shaking width: 40 mm
- Timer: 0 to 60 min



### Water Activity Meters

- Measurement: 0 to 1.0 Aw
- Resolution: 0.01 Aw
- Main Unit Material: SUS304
- Model: Measurement only / memory and Logging



### Portable Density Meter

- Sampling amount and suction speed can be easily adjusted with on hand.
- Measurement range 0.0000 to 2.0000 g/mL
- Units: Density, %Brix, Specific gravity, temp., Alcohol vol%, etc.



### Handheld Homogenizers

- Designed to homogenize cells and plant tissue or to re-suspend protein and DNA pellets.
- Max speed: 7800 rpm



### 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 Transilluminators

- The cover can be fastened anywhere and the gel cutting operation is easy
- Blue LED specification with long life and less DNA damage

## Digital Multi-position Magnetic 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

## Underwater stirrers



Setting Individually

### Waterproof type, and can be submerged underwater

- 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

## Vibration Viscometer



### Viscosity is measured by the detection end of a torsional vibrator made by a ceramic element by rotating vibration

- Sample volume: 7-8 mL
- Measurement range
  - 0.4 to 1000 mPa.s
  - 10 to 5000 mPa.s
  - 0.5 to 30 Pa.s
  - 10 to 500 Pa.s



## AS ONE – Laboratory and Instrument selection

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

### Automatic Well Plate Dispenser



### EASY Auto Dropper “Micro Short-AM”

#### Features:

- Labor saving, work efficiency and improved reproducibility
- This filler is suitable for cell dispensing, etc.
- Compatible containers: 6, 12, 24, 48, 96, 384 and 1536 microplates
- Accuracy: +/- 2% or less
- Control: LCD color touch panel (96 memories)
- Tubing can be autoclave

### Automatic multichannel pipettes



### Auto Dispenser “BISTEQUE-AM”

#### Features:

- Labor saving, work efficiency and improved reproducibility
- Tip-type automatic dispensing and dilution device
- Dispensing volume: 5 to 300 uL (variable in 0.1 increments)
- Compatible container: 96 wells plate
- Dispensing modes: Dispense, R-Dispensing, Dilution, Transfer
- Plate shaking function
- Control: LCD color touch panel (up to 99 programs)

### Laboratory Gravity Control Device



Regenerative medicine, Space biology, Drug Discovery, etc.



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

#### Microgravity (10<sup>-3</sup> 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<sup>-3</sup> 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 CO<sub>2</sub> incubator with 37 °C and 95% humidity.

### 3D Single-use Sterile Containers

Sterilized



### STERITAINER PLUS

Gamma Beam Sterilized Liquid Transportation / Storage Container

#### Gamma Beam Sterilized

3D Single Use Sterile Bag 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.

#### Space Saving

Installation is possible in a small space such as inside a sterile chamber. Empty Containers are folded, wrapped individually, and packaged compactly. Storage space can be saved.

#### 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



Gamma Beam Sterilized: High Penetrating Power and Stable Sterility

Blow Integral Molding: Realized High Level Durability and Low Elution Performance

Validation: High Reliability and Quality Control. Operable Right Now

Conforming to Japanese Pharmacopoeia (JP) / US Pharmacopoeia (USP Class VI)



## 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.

### Laboratory consumables



**Water Quality Tester "PackTest"**  
pH/COD/Chlorine/Silica/Iron/Sulfide/  
Chloride/Ozone/Nitrogen/etc.



**15- and 50 mL Centrifuge tubes**  
DNase/RNase/Pyrogen-free  
Centrifuge strength: 20,000 G



**Crucibles Low, Tall forms  
and combustion boat.**



**Membranes, Paper Filters,  
Ultrafiltration membranes, etc.**



**Autoclavable Spray**  
Ethanol for disinfection an invert  
soap can be used.  
500 mL



**Platinum Crucibles**



**O2 Absorber, CO2  
Generator**  
(for Anaerobic Microbial)



**Wipers and  
Gamma-Sterile Wiper**



**Spectrophotometer  
Quartz/Glass Cuvettes**

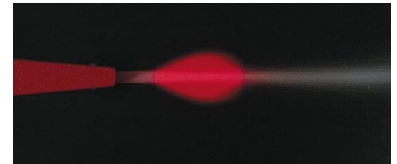


**Sympatec GmbH**  
System | Partikel | Technik

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  $\mu\text{m}$  to 8,750  $\mu\text{m}$  is mastered.

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

Key feature:

- Fraunhofer and Mie evaluation in one analyzer
- Off-line and On-line systems
- Micro dosing system for API and toxic substances with a closed system

### API, Nasal Spray and Inhaler application



- Laser diffraction analysis of the discharge behavior of inhalers and nebulisers with particles ranging from 0.25  $\mu\text{m}$  to 875  $\mu\text{m}$
- In order to simulate different breathing profiles, measurements can be performed as a function of volumetric flow or pressure loss. The inhalation and measurement duration can be freely defined.

Key feature:

- Cross matrix validation.
- Open measuring zone
- High resolution with multi-ranges
- ISO and USP standard comply
- FDA 21 CFR Part 11
- IQ and software validation



Positive Displacement



Scale-up Simplicity



Robust Connectivity



**Microflow** Ismatec Series  
> 0.0001 to 300 mL/min

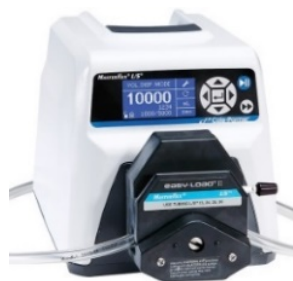
High-Accuracy  
**L/S Series** > Up to 5 LPM

Powerful Systems **I/P Series**  
> Up to 26 LPM

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

## L/S Laboratory Peristaltic pumps

## Classic model



### 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



### Variable-Speed 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
- Speed: Variable (RPM)

### Applications:

- Dispensing and filling
- Fluid metering, feed, and transfer
- Acid/base pH control
- Sterile filtration and fluid transfer
- Automated fluid transfer
- Pharma/Biopharma Process
- Fluid metering, feed, and transfer
- Plant automation
- Foods/Chemicals/Water/Agricultural Industrial
- etc.

## I/P Series: Small pilot scale 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
- Gel column pump
- etc.

## B/T : The Pilot Scale 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.

Drive

+

Pump Head

+

Tubing

=





Positive Displacement

Microflow Ismatec Series  
> 0.0001 to 300 mL/min



Scale-up Simplicity

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



Powerful Systems I/P Series  
> Up to 26 LPM



Robust Connectivity

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

## L/S MasterSense Laboratory Peristaltic pumps

## MasterSense Series

Masterflex peristaltic pump system provide superior accuracy and repeatability and ensure optimal performance when used with the proper tubing.

### 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
- Secure three-tier access to pump functionality
- Choice of connectivity options – MasterLive, EtherNet/IP

### Applications:

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



### Features

- Display: 5" TFT/RGB touch Screen.
- RPM: 100 and 600 rpm
- Flow rate  
100 rpm: 0.001 to 580 ml/min  
600 rpm: 0.006 to 3400 ml/min

### 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

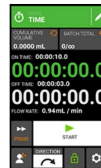


New model

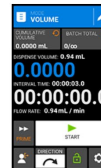
intuitive touch-screen interface



Continuous Mode



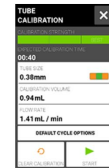
Time Mode



Volume Mode



Remote Mode



Tube Calibration



User Access

Save and recall up to 50 commonly used protocols, each with a unique name

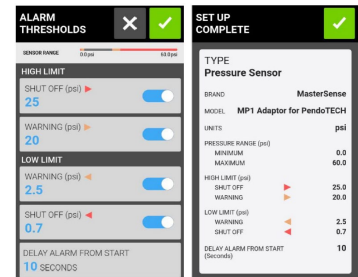
## MasterSense Pressure Sensor Adaptors

### Designed for simplified integration of a single-use pressure sensor into MasterSense pump systems.

- Install sensors downstream of pump to detect static and dynamic process pressure and to avoid downtime.
- Add critical pressure monitoring to your workflow.
- Perfect for tangential-flow filtration, depth filtration, harvest, bulk transfer, chromatography and fill applications.



New



Drive

+

Pump Head

+

Tubing

=



## Ismatec: Peristaltic pumps



### Independent Channel Control (ICC) Pumps

Pump each Channel at different speeds and directions

- 2-, 3-, 4-Channels
- 6, 8, 12 Rollers
- Speed: 0.1 to 100 rpm
- Flow rate: 0.0001 to 43 mL/min per channel

ISMATEC



### High Precision Multichannel Dispenser (ICP) Pumps

Low-flow, high-accuracy pumps provide repeatable results

- Flow rate: 0.0015 to 44 mL/min or 0.00039 to 11 ml/min
- No. of rollers: 8

ISMATEC



### Ismatec Tubing : 2-, 3- stop and extension

Tubing Materials:

Puri-Flex, Puri-Prene, Puri-Clear LL, Silicone (Platinum-cured), Silicone (Peroxide-cured), C-Flex, PharMed BPT, Chem-Durance, Tygon, Viton, Solva, Versilion, GORE

ISMATEC

## Ismatec Reglo: Peristaltic pumps



New

### Digital Multichannel pumps

- 5" TFT Touch screen
- Continuous run, volume dispense, and time dispense modes
- Flow rate (per channel): 0.001 to 68 mL/min
- Number of Channel: 2 or 4
- Number of Rollers: 6, 8 and 12
- Flexible operate control via screen, MasterflexLive, or analog remote control



### Digital single channel pumps

- 5" TFT Touch screen
- Continuous run, volume dispense, and time dispense modes
- Flow rate: 0.16 to 365 mL/min
- Number of Channel: 1
- Flexible operate control via screen, MasterflexLive, or analog remote control



### Gear pump and Piston pump

Achieve high pressure and accurate, pulseless flow – with an intuitive touch-screen interface

- Flow rate: 0.025 to 5840 ml/min
- Max pressure: up to 20.7 bar (300 psi)

MASTERFLEX ISMATEC

## Pump Heads: for L/S, I/P and B/T series



### Easy Load

- New design automatic tubing retention allow for multiple tubing sizes
- Rotor is constructed of stainless steel
- Pump head are stackable for multichannel applications



### Easy Load II (1- or 2- channels)

- New design automatic tubing retention allow for multiple tubing sizes
- Rotor is constructed of stainless steel
- Pump head are stackable for multichannel applications



### Easy Load 3

- Same side tubing entry/exit permits easy integration into space-limited
- Twist-lock mounting feature lets you mount and stack heads in seconds



### Multichannel pump heads

- Get low-pulsation synchronous flow in multiple channels without cartridges
- Flow range 0.045 to 2300 ml/min per channel



### PTFE tubing head pump

- Ideal for high-purity fluids and aggressive organic solvents
- PTFE tubing is the only wetted part ensuring fluid purity and excellent chemical compatibility



New

### Cytoflow pump heads

- The best option for pumping live cells and shear-sensitive fluids
- Ensure the survival and vitality of live cells



New

### Easy load II with open-head sensor

- Available with integrated open-head sensor-connects directly to sensor-equipped drives



New

### Quattroflow pump Heads

- No mechanical seal or rotating parts that can fail – only the diaphragm and body come in contact with the fluid
- Single-use pump heads are constructed with a disposable PP Chamber



New

### Ultrapharm pump Heads

- This pump head produces gentle, low pulse and highly accurate dosing and flow to ensure optimal integrity and uniformity.
- Autoclavable; tested to 10 cycles without any loss of flow or accuracy performance



### B/T Rapid-Load Pump Head






















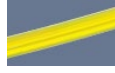

- Newly designed occlusion mechanism slides occlusion bed out of the way for easy tube loading and improved tubing occlusion
- Interlock switch shuts off power to stop drive when door is opened



## 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

 Silicone (Peroxide-cured)	 Biopharm Silicone (Platinum-cured)	 PharMed BPT	 Tygon E-LFL	 Versilon 2001	 Viton
 Silicone (Platinum-cured)	 Biopharm Plus Silicone (Platinum-cured)	 PharmaPure	 Tygon E-Food	 Versilon A-60-N	 Solva
 Puri-Flex	 C-Flex	 Chem-Durance Bio	 Tygon E-Lab	 New GORE STA-PURE PCS	 <b>FREE MASTERFLEX® Tubing Test Kit!</b> Our FREE Tubing Test Kit is a simple way to test your chemicals against different tubing formulations. Kit contains samples of 19 different pump tubing formulations, formulation descriptions, a selection guide, instructions on how to test your tubing, and complete ordering information. Call today! Request item HL-00101-10. <b>Call or go online to request your FREE test kit today!</b>
 Puri-Prene	 C-Flex Ultra	 PTFE	 Tygon Fuel&Lubricant	 New GORE STA-PURE PFL	

Masterflex pump Tubing is custom extruded to fit Masterflex pumps and engineered for long life in peristaltic pump applications.

**Advantages:** Biocompatible, Ultra-smooth, Great for tissue and cell work, Chemical resistance, Heat sealable, etc.

**Classifications:** USP Class VI, FDA, RoHS, REACH, ADF, European Pharmacopoeia, NSF, etc.

**Sterilization:** autoclave, EtO, gamma irradiation

Tubing No.	L/S Precision Tubing						L/S High-Performance Tubing			
	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18	L/S 15	L/S 24	L/S 35	L/S 36
ID	0.8 mm	1.6 mm	3.1 mm	4.8 mm	6.4 mm	7.9 mm	4.8 mm	6.4 mm	7.9 mm	9.7 mm
Hose barb size	1.6 mm	1.6 mm	3.2 mm	4.8 mm	6.4 mm	9.5 mm	4.8 mm	6.4 mm	9.5 mm	9.5 mm
Flow rate (mL/min)	0.06 to 36*	0.21 to 130*	0.8 to 480*	1.7 to 1000*	2.8 to 1700*	3.8 to 2300*	1.7 to 1000*	2.8 to 1700*	3.8 to 2300*	4.8 to 2900*

\* Flow rate (approximate) with 1 to 600 rpm

Tubing No.	I/P Precision Tubing			I/P High-Performance Tubing			B/T Perfect Position tubing	
	I/P 26	I/P 73	I/P 82	I/P 70	I/P 88	I/P 89	B/T 87	B/T 91
ID	6.4 mm	9.5 mm	12.7 mm	9.5 mm	12.7 mm	15.88 mm	12.7 mm	19.0 mm
Hose barb size	6.4 mm	9.5 mm	12.7 mm	9.5 mm	12.7 mm	15.88 mm	12.7 mm	19.0 mm
Flow rate (L/min)	0.01 to 4*	0.01 to 8*	0.02 to 13*	0.01 to 8*	0.02 to 17*	0.03 to 19*	0.67 to 18.9**	1.4 to 42**

\* Flow rate (approximate) with 1 to 650 rpm

\*\* Flow rate (approximate) with 11 to 321 rpm

## Accessories



### Ultrasonic Flow Sensors

Specifically calibrated for use with Masterflex L/S and I/P silicone tubing.



### Mounting Hardware

Mount up to 2, 3 or 4 for L/S Easy Load II pump heads one a single Drive



### Autoclavable Cable Ties

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



### Tubing & Hose Cutters

Mini cut: cuts up to 5/8" OD  
Easy cut: cuts up to 1-1/2" OD



### Pinch Clamps

Autoclavable  
Fits up to OD 2, 4, 8 mm



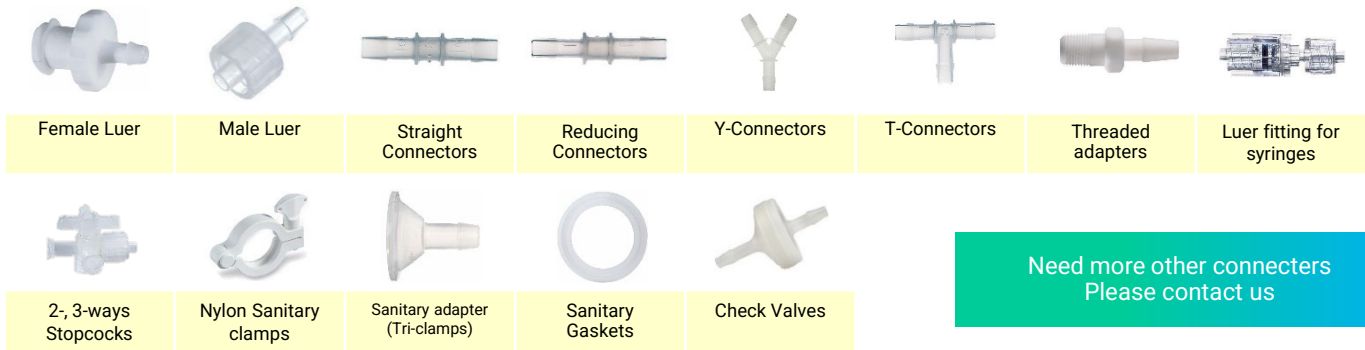
### Pinch cock Hoffmann Type

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.

**Sterilization:** autoclave, ethylene oxide or gamma irradiation

**Materials:** PP, PC, PE, PSF, PVDF, Nylon, etc.

## Fitting and Connectors



Need more other connectors  
Please contact us

**Avantor®'s** bioprocessing solutions focus on what matters most for your operations. We offer a unique combination of industry expertise and a broad portfolio of bioprocessing products and materials. Our products are engineered and manufactured to satisfy the highest quality standards and regulatory requirements for your final product – whether it's a vaccine, monoclonal antibody, recombinant protein, cell therapy, or gene therapy.

## Bioprocessing



### Single-Use Sampling Bottle Assemblies

- Safely transfer, sample and store biopharmaceutical products and reagents.
- Pre-sterilized by gamma irradiation
- Includes clear PETG bottle, C-Flex tubing and 0.2 micron vent filter.
- Capacity: 125 to 2000 mL



### Single-Use 2D and 3D Bags

- Bioprocessing bags are designed to transfer and store your products throughout the drug-manufacturing process.
- Bag assemblies provided irradiated with SAL 10<sup>-6</sup> and USP Class VI certification.
- 2D and 3D bag assemblies are available with C-Flex tubing with plugged ends for welding and silicone tubing with either luer or MPC connectors for easy operator connections.
- Size: 500 mL to 20 L



### Single-Use Sample Tubes

- Pre-sterilized by gamma irradiation
- Product contact materials are USP Class VI compliant and ADCF
- Includes C-Flex tubing, Pinch clamp, cap, O-ring and 0.2 Vent filter.
- Volume: 15 and 50 mL



### Single-Use Tank Liners

- single-use bags with a open top, designed to fit in cylindrical vessels.
- Tank liners are available in both 2D and 3D style.
- Pre-sterilized by gamma irradiation
- Certification: USP class VI and ADCF
- Capacity: 19 to 560 L



### Single-Use Sample Tubes

- Pre-sterilized by gamma irradiation
- Provided gamma irradiated to sterility assurance level SAL 10<sup>-6</sup>
- When used with sterile VWR bottle assemblies, custom possibilities are endless.
- Available with weldable/sealable tubing
- Tube size: C-Flex 1/8"x1/4" and 3/8" x 1/2"



### Top Mixing Systems

- Modular Mixing System with top mounted mixer for use with drums including a single use liner for your biopharma processes with integrated formulation programming.
- Programmable control enables automation
- Capacity: up to 200 L and up to 560 L



### Single-Use Tubing Pinch Clamps

- Clamps are double bagged and ready for use in your cleanroom environment.
- Validated to USP Class VI
- Feature anti-tamper zip-tie lock out
- Sterilizable via autoclave or gamma irradiation



### 3D Cubic Bag Containers

- These 3D cubic bags can fit in existing support containers, but can also be supplied together with a matching container made of plastic or stainless steel.
- 3D cubic bags are available in 200 and 500 L volume with 2 ports on top of the bag. Both ports consisting of silicone platinum tubing with MPX-connectors.



### Centrifuge Tubes

- Disposable conical-bottom centrifuge tube are made of high-quality, UPS Class VI
- Volume: 15 mL and 50 mL
- max rpm: 12,500 rpm
- RNase-free, DNase-free and non-pyrogenic

Complete our request form to learn about custom solutions for your biopharmaceutical manufacturing operation.



New

## The Omnia Optifill *touch* dispenser

Intuitive. Convenient. Flexible

### Key features:

- Color touch display with intuitive menu navigation
- One-Hand Operation Dispenser
- Pivotable up to 170 degrees
- USB interface for data transmission/output
- Real time display of all operating and performance parameters.



One hand operation



Easy water dispensing



Fits neatly on the wall



Space saving under table

## Ultrapure and Pure Water with real-time TOC monitoring

**OmniaTap *xs<sup>touch</sup>* Blue line** is the ideal system when both pure water and ultrapure water are required, but in relatively small amounts.

### Features:

- OptiFill<sup>touch</sup> 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 *XS<sup>touch</sup>* UV-TOC,
- OmniaTap *XS<sup>touch</sup>* UV-TOC/UF



Real time TOC Monitoring

## Ultrapure Water with real-time TOC monitoring

**OmniaPure *xs<sup>touch</sup>* Blue line** is for highest quality pure water that fulfils the demands of analytical and life science laboratory.

### Features:

- OptiFill<sup>touch</sup> 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 *XS<sup>touch</sup>* UV-TOC,
- OmniaPure *XS<sup>touch</sup>* UV-TOC/UF



Real time TOC Monitoring

## Ultrapure and Pure Water

**OmniaLab<sup>ED+</sup>** 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, 70 L/hr.
- Type I: up to 2.0 L/min



## 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 W 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 W Ultrasonic Processors

- Use for samples from 250 µL to 1,000 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)



Probes and tips  
(0.25 to 1000 mL)



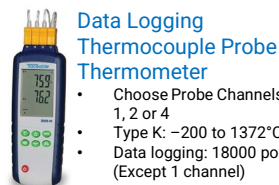
Sound-Abating enclosure



Lab jack

Accessories

## Digital Thermometers



- Data Logging Thermocouple Probe Thermometer**
- Choose Probe Channels: 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 door 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.

## Solid-Phase Extraction (SPE)



### SPE Manifolds 12- or 24-Port

- Flexible sample collection rack will accommodate a variety of receiving vessels.
- Quick vacuum-release valve for better system control.
- Individual valves-release valve for better system control.

### SPE Columns

Normal & reverse phase & ion exchange workup, catch & release & scavenging columns.  
Sorbent: Silica, Si-cyano, C18, C8, Si-TMA chloride, SCX/SAX, etc.

### Accessories

Stopcock, Needle, Frits, Male/Female Luer, Tube adaptor, Empty tubes, etc.

## General Laboratory Equipment



### Ultrasonic Cleaners

- Stainless Steel Bath
- LED Display
- Capacities: 2, 3, 6, 9, 13, 20 and 27 Liter
- Temp./time/Controller/ Degas/Drain valve



### Vacuum pump

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



### 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



### Micro-90 Cleaning Solution

- Removes most biological materials



### pH Buffer and other solutions



### Colony Counters

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



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 Balances



2-digi

**Precision Balances**  
Readability: 0.01 g



3-digi

**Precision Balances**  
Readability: 0.001 g



4-digi

**Analytical Balances**  
Readability: 0.1 mg



5-digi

**Semi-Micro Analytical Balances**  
Readability: 0.01 mg

## Vortex Mixers and Multi-Tube Vortex Mixers



### Vortex Mixer – VMXNAL

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



### Multi-Tube Vortex Mixer

- Controller: Digital or Analog
- Speed: 1200 to 2400 rpm
- Orbit: 3.6 mm
- Available racks for microtubes, test tubes and 15, 50 mL Centrifuge tubes

## pH meters



### pH meter – Aquasearcher™

The next step in evolution of OHAUS original starter series.

- AB41PH: High accuracy, GLP, 1000-item memory, Touch keypad, selectable resolution from 0.1 to 0.001

## Hotplate Stirrers



### 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
- Temp.: 70 to 500°C

## Block Heaters



### 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

## Lysing Bead Mill Homogenizer



### HT Lysing Bead Mill Homogenizer

Applications: DNA, RNA and Protein analysis (tissue, plant, fungi, yeast, virus and other cells)

- LED display allows the operator to view speed and time settings.
- 5 pre-set program buttons and touchpad controls for speed and time
- Speed Range: 300 to 1600 rpm
- Capacity: 1 deep well plate, 4 microplates, or any sample matrix that can fit in the adjustable holder.

## Benchtop Centrifuges



### Frontier 5000 series

Reliable and compact multi-function centrifuges ideal for general lab applications

- Speed range: 200 to 6000 rpm
- Max capacity: 6 x 50 mL
- Time: 10 sec to 99 hr 59 min 59 sec or continuous

## Centrifuge Rotors



Fixed rotor: 12 x 15 mL  
(Max rpm.: 6000 rpm)



Fixed rotor: 24 x 1.5/2.0 mL  
(Max rpm.: 20000 rpm)



Fixed rotor: 6 x 50 mL  
(Max rpm.: 6000 rpm)



Swing out rotor: 6 x 5 mL  
(Max rpm.: 4000 rpm)

## Circulating Water Baths



### Circulating Water Baths

- Cooling/heating range: -15 °C to 200 °C
- Stability: up to +/-0.01 °C
- Tank capacities: 5, 12, 18, 26 and 38 L
- Tank Material: Stainless Steel



### T100 / T120

- Stability: +/- 0.05 °C
- Integral pump for external circulation (TC120 only)
- Low-liquid detection
- Temp range:  
T100: Ambient + 15 to 100 °C  
T120: 0 to 120 °C

### TX150 / TFX200

- Stability: +/- 0.01 °C
- Integral pump for external circulation
- Programmable
- Low-liquid detection
- Temp range:  
TX150: 0 to 150 °C  
TFX200: 0 to 200 °C

## 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

New



### DEN-600

- Estimated total number of cells (OD600)
- Turbidity measurement method (McFarland (McF))
- Protein concentration measurement (Bradford protein assay method)

10 mm path cuvettes

## Water Baths



### 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



### 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

## Laboratory Equipment



### PCR UV Cabinets

- Built-in patented UV lamp
- UV-protective film on glass panels
- Front opening with three adjustable positions
- Stainless steel frame and working area



### 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



### Block Heater and Thermoshakers

- Provides intensive mixing and temperature control of sample in microtubes or PCR tubes
- Cooling and/or heating
- 5 variety blocks size for the tubes



### 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.



### Shaking Incubators

- Temperature range: 5 °C above ambient up to +80 °C
- Speed control: 50-400 rpm
- Up to 3 units can be stacked



### CO<sub>2</sub> Shakers

- Provides regulated orbital motion of the platform and is designed for use specifically in CO<sub>2</sub> incubators.
- Speed: 50 to 250 rpm
- Timer: 1 min to 96 hours
- Orbit: 20 mm.

## 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.



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



### CO<sub>2</sub> Incubator

- Temperature: +5 ambient temp. to 60 °C
- CO<sub>2</sub> control: 0 to 19.5%
- Capacities: 50 L, 170 L and 240 L
- Direct Heat
- IR Sensor
- Stainless Steel Chamber



### CO<sub>2</sub> Incubator with Integrated Cooling System

- Temperature: 8 to 60 °C
- CO<sub>2</sub> control: 0 to 19.5%
- Capacities: 170 L and 240 L
- Direct Heat
- IR Sensor
- Stainless Steel Chamber



### CO<sub>2</sub> Incubator with High Heat Sterilization

- Temperature: +5 ambient temp. to 60 °C
- CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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

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



### Bench Top Ductless Fume Hoods

- Ideal for titration applications
- Equipped with carbon filter
- Has taller workzone and a horizontal sliding sash
- Available size: 3 and 4 ft.



### 2-filters Ductless Fume Hoods

- Has a main carbon filter and a secondary HEPA filter at the exhaust
- Optional VOC Sensor
- Available size: 3, 4, 5 and 6 ft.



### Mobile Ductless Fume Hoods

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

# Laboratory Refrigerator and Freezers



## Laboratory Refrigerator (HP Series)

- Temperature range: +2 to 15 °C
- Forced-air design
- Triple-pane glass door
- Key lock
- Intelligent automatic defrost
- Internal LED Lighting
- Touchpad key controller with LCD
- Available size: 128 L, 347 L 620 L and 1355 L

+2 to 15 °C



## 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

-10 to 25 °C



## 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

-25 to -40 °C



## Laboratory Ultra-Low Temperature Freezer (ULT)

- Temperature range: -50 to -86 °C
- Fast pull-down time
- Excellent triple gasket door seals
- Extended warm-up time during power failure
- 3 inner doors
- Available size: 363 L, 480 L 597 L and 714 L

-50 to -86 °C

# Syringe Pumps and Constant flow syringe pumps

**DK INFUSETEK CO.,LTD**



DK INFUSETEK is focused on providing customers with modern, advanced, easy to use and reliable products at affordable prices, enabling researchers and manufacturers from all over the world to enjoy high-level products and service, sharing the development achievements of China to the globe.

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 µL to 150 mL (1-, 2- channels)  
: 10 µL to 10 mL (4- to 24-channels)

# Serological Pipettes



Sterilized

Accuance Polystyrene Serological Pipette are suitable for all research applications.

- Each pipette comes with two-way graduation lines for easy volume reading, and are individually packaged with color coding for easy identification.
- Color coding identification
- Filter barriers to prevent overflow
- RNase/DNase free, Nonpyrogenic, BSE/TSE free, Sterile
- Volume accuracy ( $\leq 3\%$  at full volume)
- Volume: 5, 10, 25, 50 mL

# Cell Culture Labware



Sterilized

In over 45 years of history, GVS has evolved from a supplier of components for the healthcare sector to a global group that produces highly technological diversified filtration solutions.

## Products

- Multi-layer cell factory
- High efficiency Erlenmeyer flask
- Roller Bottle
- Tissue Culture Plate and Inserts
- Baffled Erlenmeyer Flask
- Sterile Carboy bottle
- Mixing flask (for biological for Microcarrier)
- PCR tubes/Sealing film
- Micro Centrifuge tube
- Sterile Pasture pipette
- Cell culture flask
- Sterile Sample bags



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.

## Nano Particles & Zetapotential 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  $\mu$ L using HORIBA-developed microelectrophoresis cells.
- **Particle Size Measurement Range 0.3 nm to 10  $\mu$ m**  
The SZ-100V2 Series measures particle size and particle distribution width by dynamic light scattering (DLS).
- **Molecular weight  $1 \times 10^3$  to  $2 \times 10^7$  Da**  
Absolute molecular weight (Mw) and the second virial coefficient (A2) 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 Analysis (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



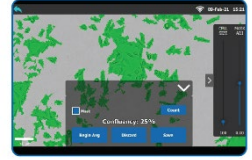
**MESA-50** Series is a portable benchtop energy dispersive X-ray fluorescence (EDXRF) analyzer with ultimate user-friendly operation. It achieves a super compact footprint without compromising X-ray safety thanks to the X-ray shields compliant with IEC 61010-1/JAIMAS 0101-2001. Thanks to the built-in battery and a pump-less optics, it enables you to perform your measurement wherever you like!



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.

### Cell monitoring, evolved

- 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



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

## Gel Documentation Imaging



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 Imaging



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.

## UV Crosslinker



The **Bio-Link** is a UVA, UVC or UVB irradiation system, mainly dedicated to binding of nucleic acid to membranes and the removal of contamination by PCR.

- Precise irradiation in energy (Joules/cm<sup>2</sup>) or time (seconds)
- Present program for 0.120 J/cm<sup>2</sup> to optimize nucleic acid binding
- Spacious stainless steel UV exposure chamber
- Interchangeable UV wavelengths

## NanoEnTek

**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.

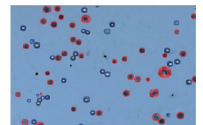
### Automatic Cell Counter

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
- Cell size gating function by select range of cell size

### Specifications

- Counting time: < 20 seconds
- Cell measurement range: 1 x 10<sup>4</sup> to 1 x 10<sup>7</sup> (cells/mL)
- Cell size range: 5 to 60 μm





**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.

## Syringe Filters



- **Type:** Sterile and non-sterile
- **Membrane:** CA, NY, MCE, PES, PTFE, PE, RC, PVDF
- **Pore size:** 0.22, 0.45, 0.80, 1.20, 5.00  $\mu\text{m}$
- **Housing Diameter:** 13, 25 mm
- **Housing:** Acrylic, PP

## Air vent filters



- **Type:** Sterile and non-sterile
- **Membrane:** Hydrophobic PTFE
- **Pore size:** 0.45 and 0.22  $\mu\text{m}$
- **Connectors:** 6 to 12 mm stepped barb
- **Housing Diameter:** 63 mm
- **Sterilization:** autoclave or ETO

## Bottle Top Filters



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

## Syringeless Filters



- Rapid sample preparation**  
Single step process, filtering with a plunger in vial
- **Sample ready to use after filtration**
  - **Pore size:** 0.20 and 0.45  $\mu\text{m}$
  - **Housing:** Polypropylene (PP)
  - **Membrane Material:** NY, RC, PTFE, PVDF, PES



**ALC** offers a full line of Laboratory Furniture, Steam Boilers and Retorts

## 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



## Electric Retorts



Electric Retort for laboratories, research and pilot scales.

## Electric Steam boilers



Electric Steam boiler for laboratories, research and pilot scales.



## ALCHEMIST SCIENTIFIC Co., LTD บริษัท แอลเคมิสต์ ไซออนติฟิค จำกัด

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