

PRODUCT Catalogue



Pharmaceuticals



Food and Beverages



Bio-Pharma & CRO



LABTECH
ANALYTICAL

THE QUALITY SOLUTION TO LABORATORY NEEDS

Microbial Air Sampler



- Portable and long time battery operated
- Flow rate is 100/180 LPM for SAS-SUPER ISO USB 100/180 & DUO SAS-SUPER 360
- The sampling head may be positioned anywhere within the isolator
- Meets standards of USP 1116, ISO 14698 -1, etc
- Facility for Petri dish & Contact plate
- Certified Aspirating head
- Delay Start/ Remote control facility
- Instrument design avoids turbulence, reaspiration of tested air and particle emission in clean rooms
- 21 CFR model available
- IQ, OQ & PQ Documentation as per cGLP & cGMP



**SAS
ISOLATOR**



**SAS ISO USB
100/180**



**DUO SAS
360**



SAS SUPER IAQ



**SAS SUPER
180/100**

Microbial Air Sampler for Compressed / Nitrogen Air



PINOCCHIO SUPER II

- It is a microbial impaction sampler to test the microbiological quality of compressed air and gases used in clean room.
- Self contained unit consisting of connections, air flow meter, pressure gauge, tap funnel head complete with plate housing
- It is sterilizable
- IQ, PQ & OQ Documentation as per cGLP & cGMP



SAS Super ISO USB 100/180

- Data management in accordance with CFR 21 part 11
- Compliant with USP chapter 1116 and ISO 14698-1
- Upto 70,000 litres of air with upto 300 memorised sampling cycles
- Sampling rate accurately maintained by speed sensor
- Design avoids turbulence in unidirectional airflow and re-aspiration of tested air in accordance with ISO specifications
- Provides total traceability - IQ OQ validation protocols available
- Automatic reminder in case of expired calibration
- 8 pre-fixed modifiable sampling configurations

DATA TRANSFER

- Sampling data can be downloaded on a PC in PDF non modifiable
- Data download by USB
- Instrument configuration via USB Stick
- Data management in accordance with CFR 21 part 11

New



SAS ISO USB 100/180



Particle Counter

- Particle Counter (100 / 50 LPM)
- The Particle Counter (APC) is fully compliant with ISO 14644-2015 and ISO 21501-4.
- 8 inch touch screen size, fast response, even with two pairs of latex gloves
- Sealed 316L stainless steel housing and dust plug to keep dust and water out
- Standard report: a key to generate ISO/EUGMPI GMP reports.
- Data review and data export.
- Data Integrity: Featured with an audit trail.

Specification Features

- FLOW: A110: 100lpm \pm 3%
- SIZE RANGE: A110: 0.5 μ m-25 μ m
- Size channels: A110: 0.5 μ m, 1.0 μ m, 2.0 μ m, 3.0 μ m, 5.0 μ m, 10.0 μ m
- Size resolution: <15% at 0.5 μ m (meets ISO 21501-4)
- Count efficiency: A110: 50% \pm 20% for 0.5 μ m, 100% \pm 10% for >0.75 μ m (meets ISO 21501-4 and JIS B9921)
- Concentration limit: A110: 560,000 particles/ft³ at 10% Coincidence loss
- Zero Count: <1Count/5min
- EXHAUST: Internal HEPA filter (>99.997% @ 0.3 μ m)
- Area/Location: 20,000 rooms and 200,000 pitches
- Sampling time: 1 second to 168 hours
- Cycles: 1000 samples on one place
- Laser source: Long life laser
- DATA STORAGE: 3.5g, \geq 5,000,000 sets of sample records

- DISPLAY: 8" LCD capacitive touchscreen
- LANGUAGE: Chinese, English
- Data reliability: Compliant with 21 CFR part 11
- REPORTS: Compliant with ISO/EUGMP/ChineseGMP/Fed Std
- Calibration frequency: Recommend at least once a year
- Dimensions (HxWxD): 254x204x263mm
- MASS: 6.1 kg (13.45 lb) (without battery)
- ENCLOSURE: 316L stainless steel
- POWER: AC 100-240V, 50Hz/60Hz
- BATTERY: 10.8V, 9000mAh, rechargeable lithium battery
- Battery endurance: A110: run for 4 hours
- MAXIMUM ENERGY: AC consumption 90W
- Operating conditions Temperature: 5°C-35°C, relative humidity up to 95%
- Storage condition temperature: -10°C-40°C, relative humidity up to 98%
- SAFETY: EN 61010-1: 2010, EN 61326-1: 2013, EN 61326-2-2: 2013, EN 60825-1: 2014, EN 61000-6-1: 2007, EN 61000-6-3: 2007+ A1, FCC Part 15, Subpart B
- WARRANTY: 2 years after activation



Particle Counter

Continuous Viable Air Monitoring Solutions



- ImpactAir-90 and ISO-90 range of microbial air monitors have been designed to meet the demanding requirements of pharmaceutical, healthcare and specialist food industries. They are used for continuous monitoring in high-grade areas, where in-process monitoring of viable particles can be critical and where ISO-14698, CEN-17141 and GMP Annex 1 compliance must be satisfied. Most users are already familiar with using agar based methods for environmental monitoring - using settle plates for upto 4 hours and air samplers to sample a cubic metre of air in just 10 minutes. Along with these methods, users will have many years of valuable experience of handling plates, interpreting the results and a wealth of historic data as a reference.



ISO-90-N – PoE Monitoring Head with Built-in Pump

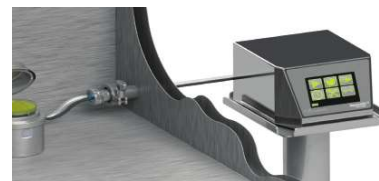
- This is our latest and probably most remarkable innovation. We have successfully reduced the size and power consumption of the vacuum pump such that the pump can fit into 122 mm diameter monitoring head and does not require any external vacuum source or pipework. This makes it ideal for bio-safety cabinets or isolators where the exhaust must be fed back into the same environment through an optional built-in HEPA filter.
- The reduced power consumption has made it possible to be PoE (Power-over-Ethernet) driven.
- It is designed to connect directly into an isolator control system requiring no other hardware other than a PoE network switch.
- This could be an ideal sampler to monitor upgrade option for existing isolators.



ImpactAir-90-B/M Portable Monitor



ISO-90 - Monitoring Head



ISO-CON-90 – Complete Monitoring System



Automated & Manual Colony Counter

- Scan 100 enables the accurate counting of colonies on any type of media. The integrated USB key enables to export the results to guarantee traceability. Counting on Petri dishes (Ø 55 to 150 mm), PetriFilm™, MC-media Pads™, Compact Dry™, filtration membranes. White LED lighting with adjustable intensity. Data export via USB, LIMS, Excel™.



Scan 100

- Scan 4000 is an automatic HD colour colony counter. It is adapted to all sizes of Petri dishes and any culture media. Its indirect lighting system gives user great comfort, high accuracy and excellent reproducibility. Scan 4000 is also an inhibition zone reader.
- Minimum size of detected colony: 0.05 mm
- Camera: 5 megapixels - zoom x 69
- Counting on Ø 55 to 150 mm round Petri dishes and 120 mm square Petri dishes
- Counting on pour, surface, Spiral, circle mode plated dishes
- Counting on chromogenic agar, PetriFilm™, MC-media Pads™, Compact Dry™, Easy Plate™, filtration membranes
- Inhibition zone reader



Scan 4000

**Ultra-HD automatic colony counter
Unequalled image quality**

Dispensing Pumps



FlexiPump

FlexiPump are peristaltic dosing pumps that allow the distribution of culture media, agar, diluents and all types of liquids. Their speed and accuracy guarantee an efficient preparation of your analysis.



FlexiPump Pro



Fogger Machine



SS Fogger Machine

- 360 degree rotation increase area coverage. Almost thrice than, without it.
- Help fog spread in all direction & reach every corner of the space.
- Ensures 'equal' distribution of the fog into the air.
- Prevent condensation of fog particles due to the movement.
- Saves time as effectively treat the area in less time.
- Nil maintenance & trouble free operation.



Fogger with Roto-Table 360

Advanced pH Benchtop Meter



The Thermo Scientific™ Orion™ Star A211 pH Benchtop Meter works for any lab or application. Its durability and dependability make it ideal for every sample, every day.



Features and Benefits

- Easy meter operation assured with on-screen text prompts, menu-specific function keys and a multi-language interface for English, Spanish, French, Italian, German and Chinese
- Don't miss a reading—AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values and calibration editing to fix individual points without a full recalibration
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary Orion Star Com computer software
- Stir samples with ease using the meter-controlled Orion Star stirrer probe (Cat. No. 096019)
- Included electrode arm and holder make it easier to maintain and place probes into samples
- Power the meter using the included universal power adapter or four AA batteries (sold separately)
- IP54-rated housing handles splashes and is wall-mountable to save space



Compressed Air / Nitrogen Air Quality Measurement System

- Oil Mist, Water vapour, CO, CO₂, NO + NO₂, H₂S, SO₂
- Mandatory as per USP - NF 24, EP 4 - 2.1.6, IP - 2.1.1 and BP 2.1.6,
- Based on color change detector tube
- Gastec Pump



Digital Osmometer



The freezing point of aqueous solutions is measured. The depression of freezing point compared to pure water is directly related to the osmotic concentration. Pure water freezes at 0°C, an aqueous solution with an osmolality of 1 osmol / kg water at -1.858°C. 1 Mol of a substance dissolved in 1 kg of water gives a solution with an osmotic concentration of 1 osmol / kg water only if it is an ideal solution and if the substance does not dissociate.

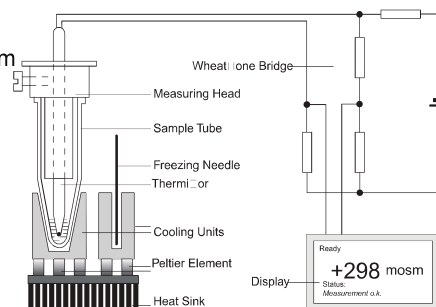
Technical Data

- **Sample volume:** 100µl or 50µl • **Measuring time:** approx. 1.5 minutes (100 µl) • **Reproducibility:** ±0.5%/± 1,5 mosm(100 µl)
- **Measurement range:** 0...2500 mosm/ kg H₂O • **Measurement:** display changeable (mosm/m°C)
- **Power supply:** 100-230VAC approx. 65VA • **Measurement memory:** 200 measurements with sample numbers



- **Data interfaces:** USB/RS232 for PC and RS232 for hand scanner
- **Dimensions:** Width 190 mm, height 278 mm, depth 216 mm
- **Weight:** Approx. 4.3 kg
the instrument is CE-labelled

Schematic diagram





Magnetic Stirrers

MSL 25 Digital

High volume magnetic stirrer with digital display to accurately set the working conditions. Programmable operations with the integrated timer and auto-reverse. Main applications of MSL 25 Digital are high volumes preparations, cell cultures and tissue cultures, buffer solution preparations.

PRECISE AND PROGRAMMABLE

SpeedServo™ technology maintains constant speed. Unattended stirring from 1 minute to 99 h 59 minutes.

ROBUST AND VERSATILE

The brushless motor provides continuous operation for high volumes at any speed. Robust stainless steel top for easy visualization of color changes and particles.



Volume (HO)
25 L



Stirring speed
From 40 to 1500 rpm



Timer &
Auto-reverse



Safety Lock

3 YEARS
WARRANTY



MULTISTIRRER 15 Digital

Multi position magnetic stirrer with stainless steel top for the simultaneous stirring of 15 positions. A bright digital display to accurately set the stirring speed, timer, and auto-reverse. Ideal for chemistry, microbiology, biochemistry applications.

PRECISE AND PROGRAMMABLE

SpeedServo™ technology maintains constant speed. Unattended stirring from 1 to 900 minutes.

RESISTANT

Stainless steel top plate. The control panel is shielded from liquid spills.



Volume (HO)
250 ml (x15)



Stirring speed
From 80 to 1500 rpm



Timer &
Auto-reverse



Safety Lock

3 YEARS
WARRANTY



Heating Magnetic Stirrers



AREX-6 Connect PRO

Digital hot plate stirrer that connects effortlessly to the VELP Ermes cloud platform via secure Wi-Fi allowing monitoring of and control of the reactions at any time. The white LED display and a set of icons provide precise settings and clear readout of the working conditions. The fast heating, 135 mm diameter CerAlTop™ plate protects from chemicals, scratches and enhances the lifetime of the unit.

SAFETY AND DURABILITY

Two independent safety circuits protect the instrument in case of over-temperature, switching-off the heating. IP42 certified.

STATE-OF-THE-ART THERMOREGULATION

Extremely stable and fast thermoregulation with minimal overshoot thanks to the PID thermoregulation software.

SUPERIOR PERFORMANCES

Brushless motor and Alnico Magnet provide state-of-the-art stirring performance.



Volume (HO)
20 L



Stirring speed
From 30 to 1700 rpm



Timer &
Auto-reverse



Safety Lock



Temperature range
From room temperature
to 370 °C

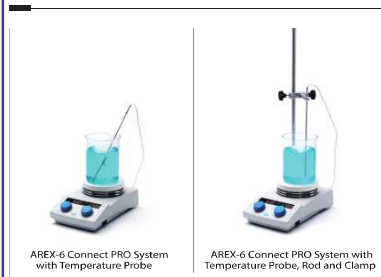


External connection
Pt 100 Probe

3 YEARS
WARRANTY



CONFIGURATIONS - AREX-6 Connect PRO



AM4 Digital PRO

Multi-position digital magnetic stirrer to manage in parallel four heating plates independently, up to a volume of 20 L each. SpeedServo™ system ensures constant speed even when the viscosity changes. The 135 mm diameter CerAlTop™ plates, made of aluminum alloy coated with ceramic, ensures an outstanding temperature homogeneity over the entire surface, optimum resistance to chemical agents and easy cleaning.

SAFETY AND DURABILITY

The control panel is protected against possible damage caused by liquid spills.

PRECISE THERMOREGULATION

Excellent thermoregulation performance with Pt100 Probe and VTF.



Volume (HO)
20 L (x4)



Stirring speed
From 50 to 1500 rpm



Temperature range
From room temperature
to 370 °C



External connection
Pt 100 Probe



External connection
VTF





Heating Plates



RC

Single-position heating plate with aluminum top and temperature regulation. It is designed for the longest lifespan and guarantees excellent resistance to chemicals. It accepts different combinations of AluBlocks™ that can maximize temperature control and save handling time.

SAFETY AND RESISTANCE

Control panel is protected from liquid spills with run-off groove.
IP 42 Certified.

EASY TO USE AND UNIVERSAL

Inclined control panel for easy access and visibility.
Choice of mains voltage/frequency model.

3 YEARS WARRANTY



Volume (HO)
15 L



Temperature range
From room temperature
to 370 °C

RC2

Two-position heating plate with aluminum top and temperature regulation. It is designed for the longest lifespan and guarantees excellent resistance to chemicals. It accepts different combinations of AluBlocks™ that can maximize temperature control and save handling time.

SAFETY AND RESISTANCE

Control panel shielded against spillage



Volume (HO)
15 L (x2)



Temperature range
From room temperature
to 370 °C



Overhead Stirrers



Powerful Wi-Fi Enabled Laboratory overhead stirrer with a TFT 3.5" Display that shows all setting information at a glance. Wi-Fi Connection to VELP Ermes Platform allows remote monitoring and control of operations in real-time. USB interface for use with optional PC software to data log, monitor, turn off/on. Pt100 probe included allowing real-time temperature monitoring.

CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 200 Ncm torque (speed gear 1) at any speed. Double speed gear for an excellent performance for high volumes and high viscosities.

EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.



Controller Advance & Digital

The VELP Controller Advance and Digital are the innovative solutions to control brushless motors of process reactors. Digital interface, maximum precision, timer and torque monitoring make VELP Controller the state-of-the-art solution for reactors of up to 100 L volume and motors of up to 280 Ncm torque.

3 YEARS WARRANTY



enabled arms



Controller Advance

Controller Digital



Volume (HO)
20 L (x4)



Viscosity
Up to 100.000 mPa*s



Torque
GEAR 1: 200 Ncm



Stirring speed
GEAR 1: 6-400 rpm
GEAR 2: 30-2000 rpm



Timer &
programmable
methods



Safety Lock



Homogenizer

Versatile homogenizer ideal for dispersing, homogenizing and mixing biological tissues, pharmaceutical products, cosmetics and food products. Wide selection of rotors and stators to match the application.

ROBUST AND CONVENIENT

The stainless steel shafts, with PTFE seals, can be easily and quickly connected through a snap hook. OV5 has a smooth start and safety switch.

VERSATILE

OV5 has a wide selection of rotors and stators to match the application.

3 YEARS WARRANTY

CHOOSE THE MOST SUITABLE DISPERSING TOOL - COMPOSITION

OVS



SHAFT



STATOR



ROTOR



Volume (HO)
8 L



Stirring speed
Up to 3000 rpm





Vortex Mixers

TX4

Exclusive digital vortex mixer featuring the highly innovative and patented IR technology to reduce repetitive strains. The bright digital display ensures precision and reproducibility. The integrated timer allows programming the vortex for unattended operations. Large choice of complementary accessories to accommodate tubes, plates and flasks.

EXCLUSIVE ERGONOMICS

The VELP IR sensor uses an infrared system (IR) to detect the presence of the tube and automatically starts vibrating. No pressure is required to maintain vibration, drastically reducing arm stress.

STABLE AND ROBUST

The technopolymer housing and zinc base ensure optimum chemical resistance and excellent stability on the bench.



3 YEARS
WARRANTY



TOUCH / CONTINUOUS



RX3
Electronic speed regulation:
Constant 3000 rpm



CLASSIC
Electronic speed regulation:
Up 3000 rpm

IR / CONTINUOUS



ZX4
Electronic speed regulation:
Up 3000 rpm



WIZARD
Electronic speed regulation:
Up 3000 rpm

COD Thermoreactors



Thermoreactor with 16 positions (14 pos. with Ø 16 mm and 2 pos. Ø 22 mm) that provide easy and intuitive programming of both time and temperature. The unit automatically shuts down when the analysis time expires. The aluminum heating block offers optimum thermal conditions and a high level of homogeneity at all temperatures

3 YEARS
WARRANTY

INTUITIVE AND DIGITAL

ECO 16 ensures a simple and easy programming of time (from 1 to 199 minutes or continuous) and temperature (from ambient to 160 °C).

FAST AND SAFE

ECO 16 is suitable for performing a short time COD analysis, in only 30 minutes with a high thermoreaction temperature (160 °C). It has also the transparent test tube cover that offers a constant visual control.



BOD and RESPIROMETERS

RESPIROMETRIC Sensor System 6 BOD

The RESPIROMETRIC Sensor System BOD is designed to be a versatile solution with minimum footprint for aerobic degradation tests for Industrial and Domestic water quality testing.

- Ideal for: BOD5, BOD7, BOD Ultimate, Assessment of disinfection on BOD.
- Biodegradation of monomers application to study the microbial activities involved in the production of plastics.
- Results reading in Pressure (millibar) and BOD (mg/l).
- Easy-to-use and powerful sensor with 4 digit LED Display.
- Unique wireless control from your PC and VELP Ermes cloud platform



Wireless DataBox™
and RESPIROsoft™



BOD Scales
90, 250, 600, 999, 4000 ppm

3 YEARS
WARRANTY



Oxid Anaerobic Jar



- Oxid™ AnaeroGen™ is an anaerobic atmosphere generation system.
- Safe and speedy generation of optimal growth conditions for anaerobes, microaerophiles and CO2-dependent organisms



Ready to use Culture for Micro

Quanti-Cult Plus Quantitative Quality Control Microorganism

Quanti-Cult Plus™ provides specific, reproducible numbers of viable microorganisms, derived from authentic, high-quality ATCC® cultures, in a safe, ready-to-rehydrate vial. Each vial delivers up to 10 inocula of 0.1mL, each containing <100 CFU (colony forming units).



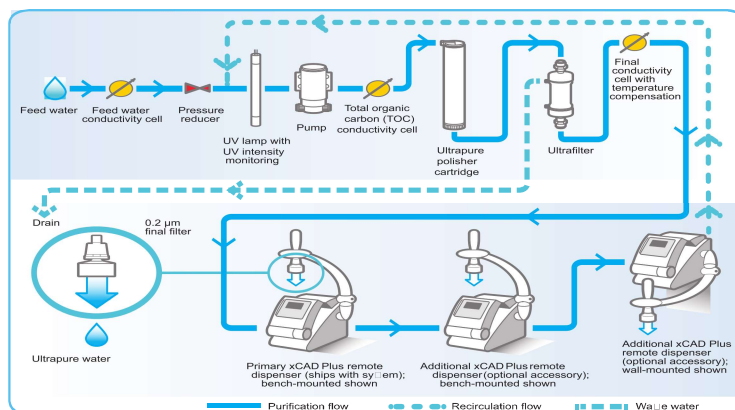


GENPURE – TYPE 1 WATER SYSTEM

- Produce Type 1 ultrapure water as per standards defined by ASTM D1193-6, ISO 3696 and CLSI™ CLRW while conserving space with the compact and flexible Thermo Scientific™ Barnstead™ GenPure™ Pro Water Purification System.
- Suitable for the most demanding laboratory applications, this system delivers 18.2 megohm-cm water with consistent quality.
- Gain flexibility with the dispenser that reaches up to 24" (60cm) from the unit.
- It can be used on a laboratory bench or on a wall.
- Integrated feed water monitoring helps to maximize cartridge life. Easily change cartridges within seconds with Aquastop quick-connects.
- GLP Compliant Documentation
- Inbuilt UF with a large surface area ensures the highest retention of endotoxins and nucleases.
- Best for applications - ICPMS, HPLC, LCMS, AAS, PCR, clinical analyzer, life sciences & chemistry applications.



Resistance at 25 °C, MΩ.cm	18.2
Conductivity, µS/cm	0.055
TOC value, ppb	1 – 5
Endotoxins, EU/ml:	<0.001
Rnase, ng/ml	<0.003
DNase, pg/µl	<0.4
Particles, 0.22 µm/ml	<1
Bacterial content in CFU/ml:	<0.01
TOC monitoring	Standard
Flow Rate, L/min*	Up to 2



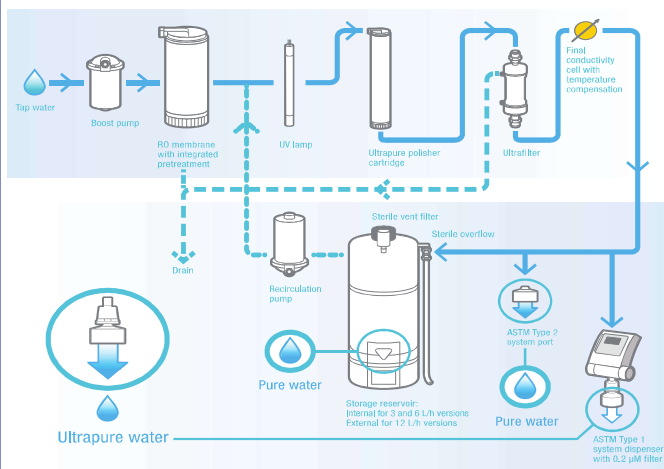
SMART2PURE – TYPE 1 & TYPE 2 WATER SYSTEM



Introducing all-in-one Barnstead™ Smart2Pure™ Pro Water Purification System

Barnstead™ Smart2Pure™ Pro system is a compact system which converts potable water into type I and type II as per standards defined by ASTM D1193-6, ISO 3696 and CLSI™ CLRW. The system offers UV/UF and smart user interface with the choice of a customizable 30 L or 60 L storage reservoir.

The instrument can be positioned on the wall or on the bench as per user flexibility. Inbuilt UF with a large surface area ensures the highest retention of endotoxins and nucleases. Best for applications - ICPMS, HPLC, LCMS, AAS, PCR, clinical analyzer, life sciences & chemistry applications.



	Smart2Pure Standard	Smart2Pure UV	Smart2Pure UF	Smart2Pure UV/UF
Type 1 Water				
Applications examples	AA, IC, Standard buffer	HPLC, GC-MS and ICP-MS, TOC Analysis, Trace Analysis	Microbiology, Monoclonal antibodies, Cell Culture	Molecular biology, PCR, DNA sequencing, electrophoresis cell culture media
Resistivity at 25 °C, MΩ.cm	18.2	18.2	18.2	18.2
Conductivity, µS/cm	0.055	0.055	0.055	0.055
TOC value, ppb	5 - 10	1 - 5	5 - 10	1 - 5
Bacterial content in CFU/ml:	<0.01	<0.01	<0.01	<0.01
Particles, µm/mL	<1	<1	<1	<1
Endotoxin, EU/ml:	n/a	n/a	n/a	n/a
Flow Rate, L/min	1	1	0.6	0.6
Type 2 Water				
Applications	Rinsing lab glassware, supplying autoclaves & ultrapure water systems, preparing & diluting buffers, reagents, & tissue culture media.			
Pure water production at 15 °C, L/h	3, 6, or 12	3, 6, or 12	3, 6, or 12	3, 6, or 12
Resistivity at 25 °C, MΩ.cm	15-10 10-15	15-10	15-10	15-10
Conductivity, µS/cm	0.067 - 0.1	0.067 - 0.1	0.067 - 0.1	0.067 - 0.1



Masterflex® Peristaltic Pumps and Fluid Handling Solutions

High-performance and long-life tubing for high-purity applications

- Heat sealable and weldable
- Full validation packet available
- Animal-derived component-free (ADCF) and meets the following classifications: USP Class VI, FDA 21 CFR 177.2600, ISO 10993 Part 4 (nonhemolytic) and Part 5 (noncytotoxic), and ISO 9001 cleanroom manufacture
- Gamma stable
- Secured supply chain
- Non-DEHP, no phthalates or halogen plasticizers
- Low extractables or leachables
- Low spallation (particle release) to product
- Low protein binding
- Translucent for sample viewing
- Cost effective tubing solution

More durable than other flexible tubing

- Autoclave multiple times at the new higher 135°C standard or sterilize by ethylene oxide or gamma irradiation to 45 kGy
- Soft and flexible for long life in Masterflex peristaltic pumps
- Temperature range: -50 to 135°C (-58 to 275°F)
- Good chemical resistance

Applications:

- Cell and tissue culture work
- Pharmaceutical
- Biotech applications
- General-purpose lab



Graphical interface and a maintenance-free high-accuracy motor

- These L/S® precision drives offer high-accuracy motors and a graphical interface that makes setup and operation easier than ever. The high-contrast LCD shows four operating modes: continuous run, timed dispense, copy dispense, and volume dispense allowing you to view pump performance continually.



- TA programmable dispense interval allows hands-free dispensing and filling, and a cumulative volume feature totalizes volume dispensed over multiple cycles. Programmed calibration ensures dispense and display accuracy—drive stores one calibration value per tubing size.
- Computer-compatible models operate as stand-alone drives or they can be interfaced with a PC.
- Process drives features a NEMA 4X / IP66-rated housing; choose 316 stainless steel housing for sanitary and washdown applications or powder-coat steel for process, water treatment, and manufacturing applications where stainless steel is not a critical requirement.

Applications:

- Dispensing and filling
- Fluid metering, feed, and transfer
- Acid/base pH control

- Precision additive, flavoring, and colorant delivery
- Sterile filtration and fluid transfer
- Automated fluid transfer
- Food/beverage and dairy process

Manifolds & Micro Filter Funnel Assembly



Syringe Filter



Disposable Filter Funnel



Sterile Filter Paper



Magnetic Filter Funnel



SS Manifold



Oil Free Vacuum Pump



Precision Water Bath

A new generation to support your science

Thermo Scientific™ Precision™ Water Baths have brought outstanding performance and reliability to laboratories worldwide. Now they are setting a new standard in laboratory water baths, with enhanced designs and added features to help simplify workflows and maximize productivity.

With their rugged construction and advanced microprocessor technology, Precision Water Baths are a smart choice for your smart lab.

- Precision is compact
- Precision is effortless
- Precision is intuitive
- Precision is safe
- Precision is everywhere



Water Activity Meter



Water activity meter in compliance with ISO 21807: 2004 and subsequent 18787 Latest generation colour touch screen display 7" User friendly software with pop up and warning systems for easy workflow management. Equipped with USB outputs for connection to an external PC and for downloading data to a mobile memory support. Total flexibility in data management thanks to the possibility of storing information, producing graphics, saving the operators name. Set up for connection to external barcode readers and printers.

COMPLIANCE: Compliance with ISO21807:2004 and subsequent ISO18787:2017 standards
Compliance with 21CFR part 11

WaterLab is the latest water activity meter available on the market, bringing you a whole new user experience to measure water activity. Equipped with dew point sensor and multipoint calibration mode, water activity measurement is done accurately within 5 minutes. With a specialised 'Stress mode' to simulate temperature ramp during logistics to allow you to know more about what happens to your goods during transportation. WaterLab shows the change of water activity in real-time on the 7" color touch screen. The instrument is easy to clean and only requires minimal maintenance.

- Shelf life testing Formulate profitable products
- Control microbial growth and useful in predicting the growth of bacteria, yeasts and molds.
- Avoid formulation issues
- Predict temperature abuse during distribution
- Develop optimised packaging

Applications:

Pharmaceuticals, Food & Dairy, Cosmetic Industries, R & D, Paper Industries, Academia



Headspace Oxygen Analyzer

- For use with non-invasive sensors, probes & microsensors
- Straightforward measurement due to unique sensor ID
- Simple calibration via barcode scans
- Compensation of temperature, pressure and salinity

The Microx 4 PI is a completely stand-alone, portable fibre optic oxygen meter. It can be used with non-invasive sensors & probes (1 mm fibre) and oxygen microsensors (200 µm fibre) in different designs. The Microx 4 PI is compatible with the normal range sensors, called PSt7 (detection limit 15 ppb, 0 - 100 % oxygen). The trace version is compatible with the normal range sensors PSt7 and with the trace range sensors called PSt8 (detection limit 3ppb, 0 - 10 % oxygen).

Needle – type housing fibre optic O2 micro sensor:

Head space oxygen in vial
Dissolved oxygen of liquid inside vial



Needle – type housing with fixed O2 micro sensor:

Head space oxygen in lyophilization vial sealed und
Head space oxygen in blister packs



Principle of Operation



- The light from an LED excites the sensor spot to emit fluorescence. If the sensor spot encounters an oxygen molecule, the excess energy is transferred in a non-radiative way, decreasing or quenching the fluorescence signal. The degree of quenching correlates to the partial pressure of oxygen in the matrix, which is in dynamic equilibrium with oxygen in the sample. The decay time measurement is internally referenced.





Cleaning Validation Swabs



TX714A

- Polyester head material
- Chemical resistance & good sorbency
- Autoclave for reuse
- Tested with Textile committee for lint free & nonabrasive

Lab Consumables Products



Bowie Dick Test



Biological Indicators



Chemical Indicators



Chemical Indicator, Strips for H2O2



Cleanroom Pen



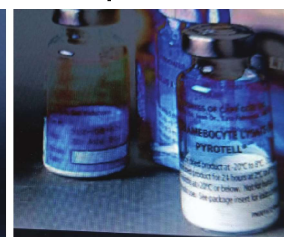
Cleanroom Marker



Cleanroom Tapes



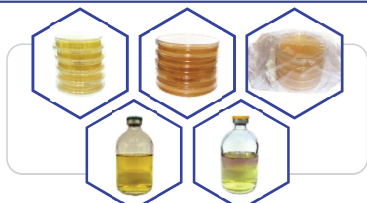
BET Test Tube (Pyrogen Free)



BET Kit



Ready-to-Use Media & Plates



For Environmental Monitoring

Formulated especially for your environmental monitoring workflows, our contact and settling plates are available with extensive quality control testing and shelf-life studies to ensure optimal performance in accordance with harmonized EP/JP/USP requirements.

Ready to use Plates 90/55mm
Bottled Media

Dehydrated Culture Media
Ready to use Culture

RABS AND ISOLATOR GLOVES & GOGGLES



H2 O2 Solution

- Hydrogen Peroxide 30 - 35% H2O2 solution
- Use of VHP application
- For use of area Bio-Decontamination



Tripple Bucket System





Calibration Services

• Air Sampler Calibration



Air samplers are key to any environmental monitoring programme so regular checking of the volume of aspirated air is imperative to ensure that there are no errors in the monitoring of contamination.

VWR has a comprehensive calibration and service programme on air samplers. We recommend performing air sampler calibration every 6-12 months or sooner if the air sampler has potentially been damaged or the flow rate has been compromised.

• Pirani Gauges Calibration

- Pirani gauge & Vacuum Transmitter in Lyophilizers
- Hot Cathode & Cold Cathode
- Pennig Gauge
- Reference Tube
- Vacuum Data-logger / Record
- Make: • Edward • MKS
- Pfeiffer • Leybold • Etc



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