



ASPIRE INC. 

A Commitment to Excellence

Product Catalog



Brookfield Viscometer DVNX

All-In-One Instrument for Measuring Viscosity + Yield Stress



- 7 Inch full color touch screen display
- Real Time graphing on display
- Yield tests
- Stand alone programming
- Speed Increment up to 250 rpm
- Bar code scanning & Magnetic Coupling

Brookfield Viscometer DV2T

Versatile Continuous Sensing Viscometer



- 5-Inch Full-Color Touch Screen Display
- 21 CFR Compliance Software (RheocalcT)
- Timed Tests
- Data Averaging
- Programmable QC Alarms
- Built In Temperature Probe
- Speed Increment up to 200 rpm

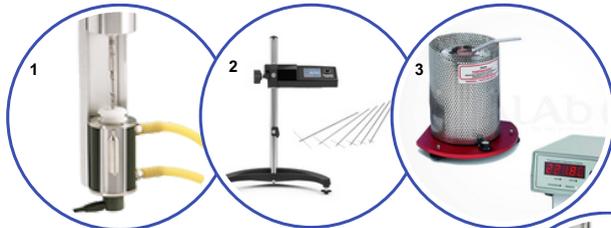
Brookfield Viscometer DVPLUS

(Entry-Level Viscometer with Advanced Features)

- 5-Inch Full-Color Touch Screen Display
- Advanced Interface with Enhanced Controls
- Comprehensive Display Information
- View essential data briefly, including:
 - Viscosity: cP, mPa-s, P, Pa-s
 - Temperature: °C, °F, or K
 - Torque: %, mNm, Dyne-cm
- Seamlessly connect to the DVPlus Connect App for easy data transfer and remote operation.
- Extensive Speed Range: 740 speeds provides exceptional range capacity, catering to diverse testing needs.
- Optional RTD Temperature Probe (DVP-94Y)
- Direct Access to Time Measurement Functions



Accessories



- 1. ULA (Ultra Low Adapter)**
Measures low-viscosity fluids with high accuracy.
- 2. Helipath Stand**
Enables measurement of non-flowing substances.
- 3. Thermosel System**
Controls temperature up to 300°C.

- 4. SSA (Small Sample Adapter)**
Ideal for testing limited sample volumes.
- 5. Temperature Bath**
Compact - small "footprint" Built-in circulator pump. Built-in tap water cooling coil For use with water jacketed devices.
- 6. Viscosity standards**
Available in 5 cps to 100000 cps.



CTX Texture Analyzer

Compression and tension testing modes to assure product consistency

- Provides a "real life" insight into physical properties.
- Interchangeable load cells for optimal flexibility (eight choices ranging from 100g to 100kg).
- Easy-to-read display and easy-to-use intuitive controls.
- Extended boom travels up to 280mm for longer reach testing.
- High Precision: 500 Hz data output rate captures the precise moment there is a change to your sample.
- The choice of three adjustable base tables allows for the versatility of sample testing.
- 21 CFR compliant with optional Texture Pro Software.



Parameters measured

- Elasticity
- Yield Point
- Hardness
- Spreadability
- Cohesiveness
- Tackiness
- Consistency
- Breaking Point
- Relaxation
- Factorability
- Pliability
- Gel Strength
- Adhesiveness
- Ripeness
- Firmness



RSO Rheometer

Effortless and Accurate Rheology Measurements for QC and R&D Applications

The Brookfield RSO Oscillatory Rheometer is designed for rapid, accurate rheological testing with a user-friendly interface that meets the needs of both Quality Control (QC) and Research & Development (R&D) environments. Using oscillatory measurements through the use of a low friction air bearing allows for very precise viscoelastic measurements. Its flexibility allows for both cone/plate and concentric cylinder geometries in a single instrument, making it an ideal choice for a wide range of material testing applications.

Inline Viscometer

Rugged and Maintenance-Free Viscosity Control for Demanding Environments

- **Unique Micro-Rotational Sensor:** Advanced technology with no moving parts, eliminating the need for maintenance and ensuring long-term reliability.
- **Vibration-Resistant:** Unaffected by external vibrations, providing accurate and stable measurements even in challenging environments.
- **Wide Measurement Range:** 1-3,300 cSt (optional up to 12,000 cSt)
- **Flexible Installation:** Offers versatility with the option for vertical or horizontal installation, adapting to various setup requirements.
- **High-Temperature Accuracy:** Delivers true temperature readings up to 120°C, ensuring precise monitoring throughout the process
- **Compact Design:** Space-saving design, standing at just 8.5 inches tall, making it easy to integrate into tight spaces.



Vapor Pro XL

Automated Chemical-Free Moisture Analysis

The Next Generation in Chemical-Free Moisture Analysis. Improved repeatability, precision, flexibility, and an advanced user interface. Vapor Pro® XL (VPXL) is the latest in moisture specific analysis technology from Computrac® is ideal for nearly any application in which Karl Fischer titration is used.

- Zero Chemical Reagents
- 7" color LCD touchscreen
- Stepped Temperature Testing
- Multiple Sample Vial Sizes
- Stores data up to 250 test programs





Colour Measurement

PFXi Series

The PFXi series of spectrophotometric colorimeters introduces a unique concept in liquid colour control.

The PFXi range is supplied with a full range of colour scales for specific markets including, but not limited to, Petroleum, Edible Oils, Pharmaceuticals, Brewing and Honey. Users can upgrade scales remotely at any time.



PFXi - 195 / 880 / 995

The models are available in different variants from 195 to 880 & 995 depends on longer path length and temperature control - Heating and color scale combinations

Model F

Visual Colorimeter for Lovibond two major edible oil/fats in RYBN Scale
The Model F is a visual colorimeter designed to optimize the use of Lovibond glass filters in order to express colour in terms of Lovibond Red, Yellow, Blue and Neutral.

Model F



LCSV100

A very easy to use, extremely portable instrument spectrophotometer for quick yet accurate reporting of any possible deviations of colour against your defined colour scale. Up to 350 sample measurements can be stored on the device and compared to reference standards.

LCSV 100



Model Fx

The Lovibond® Model Fx solves the temperature problems associated with consistently measuring the color of edible oils and addresses the need for quickly delivering accurate results.

- RYBN , RY , AOCS , Lovibond 10:1 , Chlorophyll Color Scale for Edible Oils
- Automatic Method
- Temperature Control Available

Areas of application

- Beer, Malts and Caramels
- Chemicals
- Coatings
- Edible Oils and Fats
- Food and Beverage
- Petroleum Oils and Waxes
- Pharmaceuticals and Cosmetics
- Plastics
- Sugar Solutions, Syrups and Honey
- Textiles

Model Fx



TRA 500

The Lovibond TR Series of spectrophotometers and reflectance meters allow you to measure a variety of unique surfaces. Offering a consistent and accurate colour measurement, the TR series will reduce rejection rate and help improve your production speed. The ergonomic design and flexibility of the devices make them perfect for a variety of different industries including paints, coatings, plastics, textiles, printing, food, cosmetics and creams.

- Measure on the go or in the Laboratory with Handheld and Benchtop Units Available
- Detailed Measurement of Solid Surfaces and Non-Solids like Gels, Pastes and Powders
- Designed for Fast, Accurate and Precise Colour Measurement
- On Shade Software for Perfect for Detailed Data Analysis

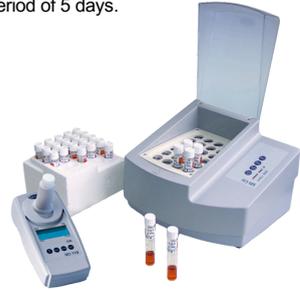




BOD BD600

The BD 600 is the ideal system for process control. Using a respirometric system solves many of the issues associated with the dilution method for BOD analysis.

BOD is a substantial feature in determining the effect of discharged effluents on the oxygen content of a water-course or on the oxygen demand of an effluent treatment plant. BOD levels are stated in mg/l of oxygen and are usually measured over a period of 5 days.



COD Set up

The Lovibond COD Setups allow highly sensitive and precise water testing with minimum effort. They measure the ST-COD concentration by photometric detection employing a linear relationship between absorbance and concentration.



XD7500 Spectrophotometer

The XD series instruments are ideal for routine and spectral analysis. As true all-rounders, the XD 7000 and XD 7500 facilitate work routines, especially with automatic method recognition using barcodes, automatic cell recognition and more than 150 pre-programmed methods. In addition to analytical quality control, they also support Good Labor Practice (GLP).

MD610 Photometer

The MD 610 multi-parameter photometer features a Bluetooth® interface which allows for the sending and sharing of testing data directly from the field. Pre-programmed with over 120 water testing parameters and ranges, it is the ideal field instrument for a variety of applications and industries.



Turbidity Meter

The compact Lovibond infrared turbidity measuring instrument TB 211 IR for fast and accurate on-site analysis. It is measured as provided in EN ISO 7027, the scattered light at an angle of 90°



TB211 IR

SD335 Multi-Parameter Meter

Waterproof multiparameter handheld instrument for the simultaneous determination of temperature and two other parameters: pH, ORP, conductivity/TDS/salinity and dissolved oxygen (O₂-concentration/O₂-saturation)

Areas of application

- Boiler Water
- Cooling Water
- Disinfection Control
- Drinking Water Treatment
- Galvanization
- Pool Water Control
- Pool Water Treatment
- Raw Water Treatment
- Waste Water Treatment

Standards and Solutions for Electrochemistry



Kjeldahl Distillation- Magnus

- Automatic dilution, steam, alkali, acid and test tube drain
- Anti corrosive FRP body construction
- 7" colored touch screen display
- Steam regulation (10-100%)
- Process kill switch to halt the process in case of accidental door opening
- Process resume from stop
- Detachable bottom drip tray for extra protection against acid attack
- Anytime alkali addition during the distillation cycle
- Tube sensor that enables safe operating conditions in event of tube damage
- Reagent refill level sensor to avert reagent dry out
- One point calibration of alkali and distilled water pumps
- Two point calibration for acid pump
- Real time monitoring of process parameters
- LOD of 1-200mg with of ≥ 0.1 mg of Nitrogen
- SELV protection
- Nitrogen reproducibility $\pm 1\%$
- RSD $< 1\%$
- Nitrogen recovery $> 99.5\%$



Kjeldahl Magnus Digesters

- Fast, safe and complete digestion of samples through aluminum blocks.
- Intricately control digestion temperature curves for unsupervised digestion
- Monitor process parameters & pre-set sample cycles
- Auto lift enables complete automation and safety
- Cooling stations increase throughput by decreasing the cooling time post digestion



Soxhlet Apparatus

Soxhlet Apparatus for Fat Estimation. Delivering classical solutions with modernized approach for fat extraction

- Extractor knob for solvent recovery
- Digital energy regulator with 10 step power regulation.
- Safe temperature setting to prevent accidents.
- Smart stand for condenser placement facilitating ease of cleaning
- Auto heater cut off with visual & audio error indicator to user



Automatic Fat Analyser

- Versatile solvent options
- Multi-operation handling process
- Monitor with Ease
- 7-inch touch User-friendly interface
- Optimized Solvent Usage for Efficient Extraction With minimal solvent use
- Eco-Smart Extraction
- Store, reuse, and save!
- Maximize Efficiency with Energy Mode for Optimal Heating
- Safety doors
- Real-Time Data Insights
- Easy Beaker Fixation
- 2-liter recovery bottle for continuous operation
- Protective Cap

Rapid Fiber Analyzer

A comprehensive and compact solution for fiber estimation



Determinations

- ✓ Crude fiber (CF)
- ✓ Acid detergent fiber (ADF)
- ✓ Neutral detergent fiber (NDF)
- ✓ Acid detergent lignin (ADL)

Applications



Food



Agriculture



Chemical industry

Acid Dispenser & E-Titrate

Dispensers facilitate dispensing which is essentially an act of “discharging defined quantities”, They can be mounted directly on commercial laboratory bottles, either directly or by means of adapters. Borosil’s new generation of Research & Pinnacle Bottle Top Dispensers is intended for the safe and reproducible liquid distribution of volumes up to 100mL.



Circulating Water Baths

Labquest Premium baths provide more uniform heat convection. These Heating baths are particularly useful in Routine lab applications, Coliform determinations, Sample thawing, Bacteriological examinations, Microbiological assays, Cell cultivation.



Water Distillation Unit- On Demand Double Distillation

DDU provide automatic working for getting pure water by distillation method capable of removing a wide spectrum of impurities. Raw water is boiled to produce steam which is taken to a condenser where it returns to the liquid state, free of impurity.



Cooling High Speed Micro Centrifuge

Designed to meet all your requirements, CLMC24VT multipurpose versatile laboratory Centrifuge provides unmatched performance, convenience and fool proof safety. With a wide range of feature like user programmable interface, automatic internal diagnosis, emergency lid release, CLMC24VT is a powerful and reliable centrifuge.



- ultra quick pelleting & centrifugation with short spin feature
- stainless steel rotor, ensures corrosion resistance and ease of cleaning.
- An Intelligent air flow system maintains the temperature control of the chamber.

Micropipettes

Electronic pipettes are ergonomic with features of pipetting, dispensing programs & reduce muscle strain by performing pipetting steps for the user



ELECTRONIC PIPETTES

Micropipettes (Manual)

Designed to take manual liquid-handling workflows to a whole new level with industry-leading accuracy and precision.



MULTI-CHANNEL PIPETTES

C1 PIPETTES

Ultrasonic Baths

Ultrasonic Bath offers gentle effective cleaning action ensuring that no contaminants get carried over from the previous process.



Magnetic Stirrers - Heat & Stir

Compact multiposition magnetic stirrer with digital display offering accurate speed, timer, temperature setting





AT-R Series

ATX-R Series

ATX/ATY series incorporates a one-piece aluminum alloy mass sensor technology (UniBloc), first introduced by Shimadzu for precision balances in 1989. It excels in performance and resists deterioration and damage by ordinary impacts. The UniBloc's compact, uniform structure replaces 70 parts found in a conventional electromagnetic balance sensor assembly and ensures stable temperature characteristics, excellent response time, and stable corner-load performance. The UniBloc design permits a consistency of production that assures reliability and a long operational life.

AP Series

For Regulation-for the Pharmaceutical industry.

Interlocking with Lab Solutions Balance enables compliance with a variety of regulations for measurement data integrity, including ISO 17025 for testing laboratories, ISO 9001 and ISO 14001 for the manufacturing industry, and GLP/GMP and the United States Pharmacopeia (USP) for the pharmaceutical industry.



AP W-AD



BL2200H

BL Series

Quick response
Very fast response for operator comfort and efficiency.
High stability
Even if the environmental conditions are not ideal for precision weighing, the high stability mode of BL Series produces steady readings.

Moisture Analyzer

This Unit Makes Moisture Content Measurements Quick and Easy
The measurement procedure is simple. Just close the heater cover to start the measurement (automatic starting mode).

- Measurements are faster than the loss on drying method using a dryer.

A USB connector makes connecting to a PC easy (built-in Balance Keys function).

Equipped with the UniBloc aluminum block mass sensor.



MOC63u

UV-Vis Spectrophotometer

The UV-1900i is a double-beam UV-Vis Spectrophotometer using Shimadzu's original LO-RAY-UGH™ diffraction grating technology. LabSolutions UV-Vis is a next-generation Shimadzu UV control software pursuing efficiency of analysis.



UV-1900i

BINDER drying chambers with natural convection or forced convection are renowned for their high quality and reliability. Thanks to their extensive redevelopment, these all-rounders are now even more firmly focused on addressing the requirements involved in drying or heating samples.

CO₂ Incubator

- Seamless inner chamber made of stainless steel with flanges as a shelf support system
- Auto-sterilization with hot air at +180 °c
- Hot air sterilizable CO₂, sensor with single-beam infrared technology
- Pan humidification system with condensation protection
- Touchscreen controller with internal data recording via USB interface



Vacuum Oven

- Temperature range: +9°C above ambient temperature to +220°C
- Controller with digital display of pressure and temperature
- Program-controlled drying monitoring with automatic ventilation at end of process
- 1 aluminum expansion rack, can be custom-positioned
- Shatter proof, spring mounted safety glass panel



Stability Chambers

- Homogeneous climate conditions thanks to APT.line technology
- Automatic water and wastewater management
- Pressure humidification with fast response times
- Variable position and removable illumination cassettes
- ICH-compliant illumination for long-term stable test conditions



Nabertherm is one of the world's leading manufacturers of laboratory furnaces based in Lilienthal near Bremen. We probably offer the widest range of muffle furnaces, high-temperature furnaces or tube furnaces.



Muffle furnace

The muffle furnaces LT1/12 or LT40/12 have been proven for daily laboratory use. These models stand out for their excellent workmanship, advanced and attractive design, and high level of reliability. The muffle furnaces come equipped with either a flap door or lift door at no extra charge.

- Tmax 1100°C or 1200°C
- Heating from two sides by ceramic heating plates for an optimal temperature uniformity
- Temperature uniformity of +/- 5 K with closed fresh-air inlet in empty workspace according to DIN 17052 at working temperatures above 800°C



Compact Tube Furnace RT Series



Water Activity Meter

Best in class water activity measuring instrument with technological lead, perfect for the daily routine determination of water activity in QA laboratories of food and pharmaceutical companies. This instrument also provides support in the investigation of the causes of product spoilage, texture changes or rancidity.

Our unique sensor technology for AW measurements supported by a fully thermostatic measuring chamber enables extremely high accuracy and repeatability for optimal quality control of your product.



LabMaster-aw neo

LabSwift-aw

Are you looking for a water activity instrument with local flexibility? Then the LabSwift is just what you are looking for. As an option with a rechargeable battery, the device can be placed anywhere.

Suitable for products such as powder or dried fruit with low to medium aw values, as the measuring instrument does not have temperature stabilization of the measuring chamber



Pocket Refractometers

PAL BX/RI has dual scales of Brix full range: Brix 0.0 to 93.0%, high measurement accuracy : Brix $\pm 0.1\%$ and Refractive Index (resolution 0.0001). RI and measurement temperature will continuously scroll across the display. The PAL-BX/RI works perfectly for measuring almost any sample. PalBX/RI comes with a wide RI range of 1.3306 to 1.5284.



PAL Bx/RI



Automatic Digital Refractometer

The most accurate refractometer in the world is now even more stylish, smart, and functional, featuring intuitive touch screen technology, the new RX-i series makes navigation and selection a breeze. The RX-5000i measures with the same accuracy level as the RX-5000 $\pm 0.03\%$ Brix and ± 0.00004 nD. The RX-i series come with newly added functions, such as USB flash drive and self-diagnosis capability.

RX-5000i



Polarimeter

The AP-300 fully automatic polarimeter measures a sample easily by setting the observation tube (filled with a liquid sample) in the sample chamber and pressing START. Digitally displayed measurement values are large and easy to read. The AP-300 generally used in pharmaceutical, perfume, cosmetic, industrial, chemical, and food factories is the best for measuring the angle of rotation. In addition, the built in International Sugar Scale is used widely in sugar factories.



AP-300

Refractometer

Highly accurate refractometer with automatic temperature compensation and wide range measurement range

- Measurement range: nD 1.3330-1.5318 and 0-95%Brix
- High measurement accuracy: nD ± 0.00015 and $\pm 0.1\%$ Brix
- Can also be used to determine the salt content.



DR-301-95



Gas Analyser

O₂ and CO₂ gas analyser Oxybaby 6.0 & Oxybaby M+

- fast, accurate sample headspace testing for quality control
- ideal for mobile use thanks to compact and lightweight design and battery operation
- intuitive operation via large touch screen
- low sample gas requirement ideal also for small packages
- needle casing keeps the needle clean and safe
- ergonomic needle pen for precise and safe handling
- low operating costs due to long lifetime of the O₂ sensor (approx. 2 years, depending on use)
- low follow-up costs: easy sensor change and calibration by user possible



OXYPAD for O₂ or O₂/CO₂

High-quality gas analyzer for quality control of Modified Atmosphere Packaging. The OXYPAD is a mobile desktop unit with an innovative design: a full-fledged desktop analyser with 7" touch-screen, and it's truly mobile thanks to its low weight, ergonomic form and battery operation.

A true 2-in-1 solution for fast and accurate sampling via needle in laboratory or direct at the packaging machine. OXYPAD is simple to operate, suitable for practically all MAP packaging and costs little to operate. Available for O₂ or O₂/CO₂



Handheld Density meter

DA-130N

- Density: 0.0000~2.0000 g/cm³
- Sampling volume and speed is single hand controlled.
- Operative either by right or left hand, the cell can be viewed during measurement.
- Light weight allows operators to feel tireless in the normal operations.
- Viscous liquid up to ca 2000 mPa·s can be sampled in.
- The display shows density, temperature compensated density, specific gravity, temperature compensated specific gravity, Brix %, alcohol concentration, sulfuric acid concentration, API degree, Baume degree, Plato and Proof degree and the like.
- Graphic LCD can display temperature, sample number, auto sensing oscillation stability, auto data saving, auto data output, data deletion, battery capacity indicator, and the like.
- Life of battery is increased two times more than conventional makes, providing much longer operation time.



CDR FoodLab®

A line of chemical analysis systems for quality and process control of foods and beverages, unique in performance and accuracy, easy to use and highly versatile, allowing a wide range of parameters to be determined using a single analyser.

- A thermostatically controlled analyser with photometric technology using LED emitters;
- kits of reagents that are disposable, pre-filled into vials, packaged in bags of 10 tests, produced by the CDR research laboratories.

The use of pre-filled reagents and the analytical procedures developed by the CDR research laboratories allow sample preparation to be eliminated or reduced, analytical methods to be speeded up and simplified, and complex calibration procedures to be completely eliminated.

Top



- Complete analysis panel, supplied already configured
- Up to 16 determinations simultaneously
- Possibility of carrying out analyses of the same sample
- Integrated printer
- Full connections (LAN - USB - Bluetooth barcode/QR code reader)

Junior



- Partial analysis panel, supplied configured with 3 analyses of your choice, implementable
- Up to 3 determinations simultaneously
- Wireless connection to external printer
- USB connections

What can you analyse?

Oils and Fats	All types of animal and vegetable oils and fats such as olive oil, palm oil, fish oil, frying oil, and fried foods.
Beverages	Wine/must, beer/wort, kombucha, cider, water.
Foods and Animal Feeds	Milk and dairy products, egg products, bakery products, nuts, plant-based products and beverages, vinegar, tomato and its derivatives, pet food.

CDR FoodLab® analysis systems use **Reagent Kits** supplied pre-filled in disposable test tubes, developed by CDR laboratories for the specific application, which make it possible to:

- eliminate sample preparation or, when necessary, make it simple and fast
- make analytical procedures extremely fast and easy
- eliminate the need for calibration procedures
- eliminate the need to handle toxic or carcinogenic agents;
- significantly reduce the amount of waste generated compared to standard methods.

The reagents are packaged in bags containing 10 test tubes for 10 tests. Packs of 100 tests consisting of 10 bags of 10 test tubes are also available.



Low Temp & Ultra Low Temp Upright Freezers | -45°C | -86°C |

These Vestfrost low-temperature freezers create the possibility to maintain temperatures as low as -45°C (VT 254) and up to -86°C (VT 258) These two models come with a door alarm and high/low-temperature alarm. The ULT freezer with an integrated USB port for data transfer and monitoring is designed with Nature R refrigerant and a single compressor system, which minimizes running costs and results in a very eco-friendly unit.

Features

- Light
- Lock
- Adjustable shelves and internal doors Castors
- Handle to secure correct closing of the door
- Chart recorder(optional)
- LED lighting
- Digital controller
- USB data transfer
- Power failure alarm
- Battery backup : 48 hours



BioCompact is a general-purpose refrigerator/freezer cabinet for basic bio storage purposes where the focus is on reliability and refined performance.

RV-10 Digital V

- New: 4 l heating bath
- Universal water/oil heating bath
- Vertical Glassware
- Motorized lift with "safety-stop" function
- RS 232 and IR Interface
- Optimized heating bath volume for fast heat-up
- Highly efficient 1500 cmi condenser unit
- Rugged design
- Ergonomically placed handles on Heating bath
- Smooth start
- Left-right interval
- Timer function
- Dry-run protection
- Safety temperature circuits
- Lower-end stop
- Choice of-coated glassware
- Push-off mechanism to loosen tight fitted glassware
- Easy and safe operation due to agronomical design of the user interface



C-MAG HS 7 digital

Magnetic stirrer with heating and ceramic heating plate which offers excellent chemical resistance.

- Powerful motor for stirring quantities of up to 10 l (H₂O)
- Simultaneous digital display of target and actual temperatures via LCD display
- Directly connection for a PT 1000 temperature sensor enable a precise
- temperature control(included In delivery)
- Control accuracy in medium +/- 0,5 K(in combination with PT 1000)



T 25 digital ULTRA-TURRAX®

High-performance dispersing instrument for volumes from 1 - 2000 ml (H₂O) with digital speed display. It offers a wide speed range from 3000 - 25,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters.

Applications range from homogenizing wastewater samples, use in laboratory reactors, and dispersion tasks under vacuum/pressure and sample preparation in medical research.





Fume Hoods

These models are regular fume hoods, working surface height is similar standing working height, these are cost-effective hood's very useful for research work, with front opening FRP construction, easy cleaning, Chemically resistant & efficient airflow allows good suction.

Aspire Laboratory Fume Hood Stations are available In various sizes and dimensions to meet specific requirements for your research. These fume hoods have a choice of vertical or horizontal sliding sash. Our product range includes general purpose benchtop fume hoods, walk-in-fume hoods, low bench top fume hood and tabletop fume hoods designed with number of optional features and specifications required to meet critical challenges in laboratory research.

Laminar Air Flow

Each unit conforms to class 100 condition of US Federal Standards 209 E for Cleanroom requirement, providing a clean environment ideal for the pharmaceutical, medical, food, and industrial sectors for sterile manipulations, electronics, assembly of miniature mechanisms, or any other application where clean conditions are required

The outer body of each unit is made of GI/CRCA and powder-coated. The working platform is made from SS304 is highly resistant to corrosion as well as mechanical or chemical impact. Optionally, it can be perforated

The front & the back sash is made of clear, imported polycarbonate sheets. It moves on wheels making the sliding movement easy

The side panels are fixed with clear glass The motors (CG make) are designed for non-stop use and for producing the least noise. The HEPA filters and pre filters are bought out and adequate stocks are kept for fast replacement, whenever needed



Biosafety Cabinets

Biosafety Cabinets are designed to provide protection to the operator, environment, and materials inside the workspace. These Biosafety Cabinets are utilized for containing low-to-moderate risk biohazardous materials. These Biosafety Cabinets have downward airflow and HEPA filters that re-circulate air providing the required level of protection from micro organisms and aerosols. As these Biosafety Cabinets are extensively used in drug preparation, chemotherapy preparation, clinical research, medical and pharmaceutical sectors, life Science and industrial laboratories, etc. it must follow relevant application-specific standards.

Biosafety Cabinet Class 2 Type A2:

In this type of Class II BSC, approximately 70% of the HEPA filtered air is circulated through the cabinet, while 30% passes through an exhaust HEPA filter and is discharged.

Biosafety Cabinet Class 2 Type B1:

This Class II BSC, exhausts 60%- 10% of the HEPA filtered air, while 30% 40%

Air is re-circulated inside workspace through HEPA filter.
 Biosafety Cabinet

Biosafety Cabinet Class 2 Type B2:

It is total exhaust type BSC, no re-circulation inside workspace; blower exhausts 100% of the filtered air.



UV Visible Spectrophotometer

X6 Single Beam UV Visible Spectrophotometer
X8 series Double Beam UV Visible Spectrophotometer

- Large HD Smart Touch Screen
- Stand-Alone System with Multi Functions
- Automatic 8-position Cell Holder
- Easy Printing
- USB Port, Fast Data Output
- Optional Bluetooth Module and PC software.
- Large Sample Chamber, Multi Options of Accessories
- High-quality Grating with High Performance
- 16mm-thick Optical Base, Rigid Structure



Probe sonicator

Aspire Inc. presents the Integrated Ultrasonic Cell Crusher—a versatile, high-performance ultrasonic device designed for a wide range of scientific and industrial applications. Utilizing concentrated ultrasonic energy and cavitation, it delivers efficient processing of samples in liquid mediums.

Key functions include cell disruption, emulsification, extraction, homogenization, defoaming, and reaction acceleration. It's ideal for crushing animal and microbial cells, extracting DNA and proteins, and preparing samples across various disciplines.

Widely used in life sciences, chemistry, traditional medicine, microbiology, and surface science, it also supports sample pretreatment in fields like pharmaceuticals, archaeology, geology, and oceanography.

With precise control and multifunctional capability, this ultrasonic cell crusher is an essential tool for modern labs and research facilities.



Ice Flaker

AIF Series Ice Flakers that has advance user-friendly technology and indicator system to indicate water and ice level. Due to its slow-melting quality, flake ice is ideal for both the presentation and preservation of perishable food items, research institutes, biotechnology, hospitals, and the pharmaceutical industry. These flake ice makers rapidly-produce ice flakes surrounding the product and cools it very fast for various applications efficiently.

- Stainless Steel Construction
- CFC free compressor
- Low water level detection
- Wheels attached for easy mobility
- Microprocessor programmed control
- High storage capacity





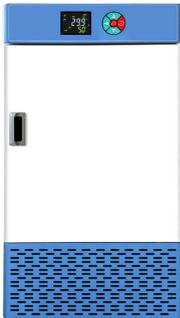
Hot Air Oven

Over 15 years, Aspire Inc has been manufacturing cost effective and energy efficient laboratory ovens that are being used in curing, drying, baking, moisture removal, and various testing procedures, etc. We manufacture ovens for various industries such as laboratory, biomedical lab and pharmaceutical, textile, rubber, food manufacturing, coal, chemical, and paint, etc.

It is our experience, engineering team, and technology that allow us to serve you the best product available on the market today. We offer abroad range of laboratory ovens with the scope of customized specifications and sizes (dimensions). Whether you need a tabletop oven, floor-mounted or large sized oven, we can design the exact system that meets or exceed your requirements.

Muffle Furnace

They are available in the standard sizes, however, we also customize them to any size. The maximum temperatures, using normal heating elements, is 1100°C, For Temperatures up to 1400°C we also have option of SiC heating element for accurate and efficient process.



BOD Incubator

BOD Incubators are designed to meet incubation criteria required in BOD analysis of water and wastewater samples, fermentation studies, plant, and insect studies and bacterial culturing, etc. Equipped with superior quality instruments, they deliver the performance, quality, and reliability required by researchers and clinicians worldwide.

Often called low-temperature incubators, our BOD Incubator systems are constructed with corrosion-resistant stainless steel and fitted with branded instruments; offering reliable results and comfortable working all the time. The standard models are available in customizable capacities; in addition, we also offer custom designing with a choice of construction materials, instruments, optional accessories, and other features as per the budget of our clients.

Orbital Shaker

Orbital Shaker- suitable for growing cell cultures in flasks, extracting tissue samples at physiological, temperatures, and sample preparation processes, mixing of biological liquids as well as the incubation and cultivation of biological liquids, growing e-coli, bioluminescence preparation.

- The front door is fully acrylic window to enable easy viewing of the samples without opening the door.
- A safety switch automatically cuts off the circulating fan to keep the temperature loss to a minimum*. Anti-vibration shock mounts prevent slipping during use.
- A unique PWM (Pulse width Modulation), gyro drive with a precision-crafted DC motor ensures noiseless and trouble-free operation for years. The load is dynamically and automatically balanced-hence no need to manually balance the load.



EuTech PH meter

Economical, user-friendly and accurate, the Eutech pH 700 is your ideal choice for routine applications in laboratories, productions plants and schools.

- Large, easy-to-read display
- Ready indicator let you know when readings are stable
- Up to 5-point calibration with auto-buffer recognition
- Non-volatile memory holds up to 100 data points
- Integral electrode holder



Sieve Shaker

The Electro Magnetic sieve shaker is a solid state instrument designed to assess the particle size distribution of a granular material. Due to non rotating Parts the operation is quick and maintenance free. 3 directional shifting motion Intermittent and Continuous tapping motion Very low noise operation Sieves made from stainless steel with laser marking of specification & serial number Specially designed sieves without crevasses and without Lead

Test Sieves:
 Sieve material(Mesh- SS316/Ring-SS304)
 Mesh is uniformly tensioned & welded
 No soldering process involved
 Lead free which makes it ideal for food grade products
 Calibration certificate-optional

Freeze Dryer

The vacuum freeze drying technology which is also called sublimation drying is a technical method that freezes the sample in advance and than sublimates its moisture under vacuum state.

Condenser trays drying shelf and pre freezing shelf are made of SS304 anti corrosion
 Colour LCD touch screen display
 Condenser with uniform and good ice capture function
 Trans parent drying acrylic chamber
 Vacuum pump with high pumping speed to reach good final vacuum CFC Free refrigerant low nice-good efficiency
 With USB Port to output freeze drying data.



Microscope

- Compound Microscope (4X , 10X , 40X & 100X)
- Stereo Microscope
- Upright Microscope
- Inverted Microscope
- Fluorescence Microscope
- Phase Contrast Microscope



Cameras for Microscope

Semi-Micro Osmometer K 7400S



The K-7400S Semi-Micro Osmometer enables the measurement of osmolality as well as the freezing point of aqueous solutions. The proven technology of freezing point determination in combination with the robust and intelligent design of the device allows fast and reproducible measurements. The instrument is equipped with a peltier cooler and an integrated microprocessor controlling the automated measurement.

The freezing point Osmometer is a standalone device that optionally can be equipped with a printer. Furthermore, the device can be controlled via the EuroOsmo 7400 software.

Technical parameters:

Sample volume: 50 - 150 μ l

Osmolality range: 0 - 2000 mOsmol/kg

Measurement duration: ~ 2 min

Measurement precision:

- $SD \leq 4$ mOsmol/kg [0 - 400 mOsmol/kg]
- $RSD \leq 1\%$ [400 - 2000 mOsmol/kg]
- Linearity:
- $\pm 1\%$ [0 - 1500 mOsmol/kg]
- $\pm 1.5\%$ [0 - 2000 mOsmol/kg]

Display: LCD, 2 Zeilen (24 Zeichen pro Zeile)

Power supply: 100 - 240 V, 50 - 60 Hz, 70 W

Dimensions: 160 x 182 x 340 mm (W x H x D)

Weight: 4.5 kg

Ambient conditions:

- 10 - 35 $^{\circ}$ C
- 20 - 80 % relative humidity (non-condensing)

Bostwick Consistometer

A longer version of the Bostwick Consistometer, suitable for testing thinner liquids.

Specifications:

- Trough Length: 14-1/2 inches with 60 etched 0.5 cm graduations.
- Sample Reservoir Capacity: 75 ml
- Overall Length: 17 inches. Overall Width: 3-1/4 inches. Weight: 2 pounds.
- Leveling: 2-leveling screws and spirit level.
- Resists Corrosion: Holds Up Under Plant Conditions
- Appropriate for Laboratory Use: 2 Leveling Screws & Spirit Level
- Precise Positioning of Flow Angle: Ensures Accurate Results
- Small Size 14"L (trough length approx. 11 1/2"L) x 3 1/2"W x 5 1/2"H
- Spring-Loaded Gate: Instantaneous Gate Release
- Prevents Premature Flowing of Sample
- Engraved Graduations in 0.5 cm Divisions



OptiMelt Melting Point Apparatus

Melting Point Apparatus

- Wide Temperature Range: Measures up to 400 $^{\circ}$ C with a 0.1 $^{\circ}$ C resolution for precise results.
- Automated Operation: Built-in digital camera and image processing for unattended melting point determination.
- Fast Measurements: Programmable ramp rates from 0.1 $^{\circ}$ C/min to 20 $^{\circ}$ C/min with rapid preheating to save time.
- Accurate Results: Equipped with a platinum RTD sensor for reliable and repeatable temperature measurements.
- Data Logging: Stores 24 analysis methods and 8 complete reports, exportable via USB or printable.



Other Available Products:-

- Powder Flow Tester
- Tap Density Tester
- Torque Tester for Bottle Caps
- Tablet Friability Tester
- Tablet Hardness Tester
- Tablet Disintegrating Apparatus
- Friability Tester
- Leak Tester Apparatus
- Conductivity Meter
- Multiparameter
- Ion Meter
- pH Electrodes
- pH Meter
- Density Balance
- Standard Weight Box (Class F1, E1, E2)
- Saybolt Chromometer
- U-Tube Viscometer
- Shaking Water Bath
- Stability Chamber
- Humidity Chamber
- Lab Glassware Dryer
- Digital Burette
- Bottle Top Dispensers – Research / Pinnacle
- Universal Static Printer
- ABBE Refractometer
- Platform Balance – High Range Weights
- Anti-Vibration Pad
- Dry Bath Incubator
- Dry Bath
- Heating Mantle
- Oil Bath
- Block Digestor
- Dry Block Heater
- Kinematic Viscosity Bath
- Hot Plate
- Overhead Stirrers
- Shaker and Rocker
- Gel Rocker
- Vortex Mixer
- Tube Roller
- Tube Rotator
- Data Logger
- Vacuum Pump
- Chillers
- Autoclave – Vertical / Cylindrical / Rectangular
- Flash Point Apparatus
- Magnetic Stirrers
- Visual Colorimeter
- Ionizer
- Automatic Digital Polarimeter

Partner Brands



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A Commitment to Excellence