

Your Complete Lab Equipment Solution



ARUSHA Enterprises

Empowering Growth, Inspiring Innovation

TRU
metrix
INSTRUMENTS



A flow chemistry pump is a precise liquid delivery device used in continuous flow chemical processes. It plays a key role in flow chemistry systems, where reactions occur in a continuously flowing stream rather than in traditional batch reactors, and it can be used to pump reactants such as acids, bases, solvents, or catalysts.

- Long-lasting And reliable Under Extreme Conditions.
- Strong And Durable, Suitable For High-Pressure Applications.
- Excellent Against A Wide Range Of Chemicals

FLOW CHEMISTRY PUMPS



ROTARY EVAPORATORS



- Digital display
- High efficiency evaporation
- Strong acid and alkali resistance
- Seamless integration with vacuum pumps for low-pressure operation
- Automatic lift and splash protection for user safety

Availability of Plastic-coated Glassware to guarantee complete safety in case of glass breakage

- Totally oil free, mechanical vacuum pumps
- Low noise level, high efficiency and long lifespan
- Corrosion-resistant material

Vacuum pumps are specially designed for laboratory operations

They can be used in a multitude of applications, such as vacuum filtration, degassing, impregnation, drying chambers, rotary evaporations, distillation, gel dryers, and gas analytical systems

VACUUM PUMPS



CHILLERS & CIRCULATORS

- The cooling circulator is a completely closed refrigeration system that adopts PID temperature control
- Real-time pressure display and adjustable pump pressure
- Digital control is easy to operate
- The refrigeration system is designed with over-heat and over-current protection
- With the liquid level display and low liquid level alarm, the liquid level can be monitored in real time to prevent damage to the machine due to the lack of liquid



OVERHEAD STIRRERS



Overhead stirrers are powerful laboratory devices designed for mixing, homogenizing, and suspending viscous or large-volume samples, where magnetic stirrers are insufficient. Featuring robust motors with precise speed control, they deliver efficient and consistent mixing for demanding lab applications.

- LCD display of speed, torque, timing, temperature, etc. ➤
- Brushless DC motor
- Speed range up to 2200 Rpm ➤
- Safety lock to prevent accidental change of operation ➤

INTELLIGENT MAGNETIC STIRRER / MINI MAGNETIC STIRRER MULTI-UNIT MAGNETIC STIRRER

- 4" inch LCD high-definition color screen
- The ceramic-coated aluminum plate offers strong corrosion resistance and is easy to clean
- The corrosion-resistant full metal housing provides excellent heat dissipation and reliable fire protection
- Brushless DC motor and powerful magnetic ensure fast and accurate stirring speed. Speed range up to 2000Rpm





HEATING JACKET



- Teflon anti-corrosion spray coating
- Precise temperature control
- Highly sensitive temperature sensor
- Glass fiber mantle provides uniform heating of flask
- Volume available 500 ml, 1L, 2L, 3L, 5L to 10 liters
- Analog or digital temperature controller

ANALYTICAL CHEMISTRY & WEIGHING

ANALYTICAL BALANCE

- 5" touch panel
- Internal auto calibration
- Electromagnetic force sensor, Dynamic temperature compensation
- Aluminum shell/Large space wind proof cover
- Overload alarm/Fault alarm/Level indicator
- RS232C (Standard), USB/Printer (Option)



PAN BALANCE



- Large size stainless steel pan
- LED (Green) / LCD
- Metal base
- Overload alarm/Fault alarm/Level indicator
- RS232C (Standard), USB/Printer (Option)

MICRO & ULTRA MICRO BALANCE



- ✔ 5 Inch Touch Screen
- ✔ Automatic Internal Calibration
- ✔ Baud rate is adjustable / Density function
- ✔ Plastic protection cover for keypad
- ✔ Overload alarm/fault alarm/level indicator

MOISTURE ANALYZER

- ✔ Sample name/Company/Contact information can be entered
- ✔ Administrator/Operator Password access login
- ✔ Date Time/Store 200 historical sets
- ✔ Build-in sample testing solutions
- ✔ GLP/GMP format record
- ✔ Automatic calibration period setting (Internal calibration)
- ✔ Dual motor drive automatic door
- ✔ Super silent fan



PH & CONDUCTIVITY METERS



- ✔ High resolution LCD display, 7.0 inches
- ✔ Multi-reading feature allows auto-read, timed-read and continuous-read
- ✔ Automatic/Manual temperature compensation ensures accurate results
- ✔ Data Storage 1000 sets for each parameter (GLP-compliant)
- ✔ Support for USB or RS-232 communication. IP54 waterproof
- ✔ 1-6 points calibration with Standard Recognition
- ✔ Automatic electrode diagnosis with pH slope and offset display



- 850nm LED Light Source
- Uses Nephelometric principle with 90° detection
- Meets ISO 7027 and offers consistent light source for higher accuracy
- Settable parameters, including user ID, number of calibration points, date and time, etc.
- 1-7 points calibration using Formazin standards or zero water
- Auto ranging from 0-1000 NTUs
- Data capacity of up to 2000 sets (GLP-compliant)
- Data stored can be transferred into the computer by USB or RS-232 communication interface

TURBIDITY METER



CHROMATOGRAPHY & SPECTROSCOPY

FLASH PURIFICATION SYSTEM



- Faster than traditional column chromatography
- Higher resolution and separation efficiency
- Ideal for purification of complex mixtures
- Compatible with binary & quaternary solvent system
- Adaptable to 4-800 g pre-loaded Flash columns, which can be used in series
- Accommodate to a wide range of test tube rack sizes and customized collection tubes
- Ready for liquid and solid samples

- True Double Beam Double Monochromator Optics, fully sealed to provide ultra-low stray light and high photometric range (-8.0~8.0 Abs)
- 185-900 nm Wavelength range with a Nitrogen purge
- Precise Wavelength accuracy is ensured by the integrated Mercury lamp for automatic correction
- Continuously selectable spectra bandwidth from 0.1-5nm
- Beam size is continuously adjustable for a variety of applications including ultra-volume cuvettes
- Large sample compartment suitable for all kinds of accessories, especially for 150mm integrating sphere

UV Vis Spectrophotometer



- Acid-washed silica for enhanced cleanliness and improved separation
- Reduced fines to lower column back pressure and prevent frit clogging
- Fully automated, optimized packing process for consistent performance
- Great performance with cost-effective value
- Offers two types of columns: sealed cap and removable cap
- Flash columns are available in two formats: irregular silica and high-performance spherical silica, each designed for optimal purification efficiency

FLASH COLUMNS



HPLC COLUMNS



Nucifera HPLC columns use high-purity fully porous silica spheres as the matrix and are mass-produced using Heder's independently developed stationary phase synthesis technology and silica surface chemical homogenization modification technology. They have stable and efficient chromatographic separation performance, good batch-to-batch reproducibility, and long life under suitable conditions.

Bonded phases: Si, C18, C8, C4, PHP, NH2 ➤

Particle size: 3µm, 5µm, 7µm, 10µm ➤

Column sizes: 2.1×100mm, 2.1×150mm, ➤

4.6×150mm, 4.6×250mm, 10×250mm,

20×250mm, 30×250mm, 50×250mm

PREPARATIVE COLUMN RE-PACKING SERVICES

Restore Performance. Extend Value. Ensure Compliance.

Our specialized re-packing service for preparative HPLC columns is designed to serve pharmaceutical and analytical laboratories maintain optimal chromatographic performance while extending the lifespan of valuable column hardware. Whether you're working with reversed-phase columns like C18, C4, or Phenyl, or using custom stationary phases, we provide expert re-packing using high-purity bulk media and rigorously validated protocols.

SERVICE HIGHLIGHTS

- Media Options: Choose from silica-based media, bonded phases (C18, C8, C4, Phenyl), or supply your own resin for custom packing.
- Column Compatibility: We support XL hardware formats, custom diameters, and OEM-specific designs to suit your application.
- Packing Environment: All re-packing is performed in an ISO 7 cleanroom, with post-pack performance testing and Certificate of Analysis (CoA) provided.
- Fast Turnaround: Minimize downtime, ensuring your workflow remains uninterrupted.



GENERAL LABORATORY EQUIPMENT

ULTRASONIC BATHS



The ultrasonic cleaner digital represents an advanced ultrasonic cleaning solution that incorporates a digital display function.

Building upon the foundation of traditional ultrasonic cleaners, it integrates electronic control and display modules.

This enhancement enables users to effortlessly monitor and fine-tune cleaning parameters, providing a more intuitive and convenient operation experience.
Optional Heating and cooling function

- 7-inch touch screen, easy and convenient to operate, display amplitude, power, temperature, and time
- Sonation chamber in double-layer soundproof design, easy to clean
- Ultrasonic duration and power can be setup as demand
- With over-temperature, overload and time protection functions
- With functions of UV sterilization and lighting

PROBE SONICATOR ULTRASONIC PROCESSOR



CENTRIFUGE



- Touch screen, easy to set parameters
- Automatic rotor recognition to prevent over speed
- Dynamic balance detection with imbalance alerts for rotors
- Imbalance detection by three axis gyroscope
- Motorized electronic door lock
- Password to lock the device
- High quality compressor unit, -20°C to +40°C, 1°C increment
- CFC-free refrigerant, PID dynamic temperature control

BOD & CO2 INCUBATORS, SHAKING INCUBATORS

CO2 INCUBATOR



- ✔ Digital Display, 4.3-inch color touch screen
- ✔ The six-sided heating system ensures high-temperature uniformity
- ✔ The unique dual circulation air duct design has non-natural convection, ensuring high uniformity of temperature, humidity and CO2 concentration within the box
- ✔ Antibacterial stainless steel liner material inhibits the growth of microorganisms on the liner and ensures the cleanliness of the inner incubator

BOD INCUBATOR



- ✔ 7-inch touch screen
- ✔ The unique annular heating and cooling technology
- ✔ The automatic defrosting function is provided, and defrosting time, defrosting interval and automatic defrosting ON or not, etc. can be set
- ✔ With data recording function, the recording time can be set, 150000 pieces of data can be recorded, and the temperature curves can be displayed to facilitate data analysis; there is a USB interface to export and save the above data
- ✔ External cloud platform interface is reserved, and the cloud platform system is optional

SHAKING INCUBATOR



- ✔ Automatic door
- ✔ Audible and Visible Alarms alerts
- ✔ Stack up to three units high, Space-saving and high-capacity
- ✔ Data easily transfer through the USB interface
- ✔ RS-232 or RS-485 interface is optional
- ✔ CO2 control (optional)
- ✔ Compliant with FDA 21CFR part 11 computerized software system(optional)
- ✔ Photosynthesis Lighting System(optional)
- ✔ Above two instruments accommodate in one page or side by side



- Benchtop Orbital Shaker / Floored Orbital Shaker
- 4.3" LCD Touch Screen
- Touch Screen making parameters setting and viewing easily
- Timer Range: 0-999.9 hrs
- SUS304 stainless steel shaking tray
- Triple-eccentric drive is precisely counterbalanced to impart smooth, uniform motion to all flasks regardless of their position on the platform
- Automatic restart after power interrupt with Non-Volatile Memory keeps studies running smoothly

ORBITAL SHAKERS / FLOORED ORBITAL SHAKER



WATER BATH / SHAKING WATER BATH



- Digital color display
- Dual independent controllers
- Corrosion-resistant stainless steel chamber and heater International standard requirements
- Reciprocating motion on guide rail with heavy-duty corrosion-resistant drive train driven by brushless DC motor
- Temperature: Ambient +5°C - 100°C
- PID automatic control provides accurate and reliable temperature control

- Flexible operation for user convenience
- Adjustable RPM for gentle to vigorous mixing
- Compatible with a wide range of tube sizes and adapters
- Maintains consistent vortexing across all tubes
- Brushless DC motors, Low noise for comfortable lab environments
- LED display for selected models

VERTEX MIXER / MULTI-TUBE VORTEX MIXER



ICE FLAKERS

- Quickly produce ice in 5 minutes
- Automatic ice-making with fault self-diagnosis, water shortage alerts
- Produces soft, dry, and irregular crushed ice with low water content
- Equipped with CFC-free compressors and Freon-free insulation for eco-friendly operation



2-8°C LABORATORY REFRIGERATOR



- Large LED display inner temperature clearly and with easy view
- The inner temperature can be adjustable at the range of 2°C~8°C with an increment of 0.1°C
- Safety door lock, preventing unauthorized access
- Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm
- Forced-air circulation for large airflow with special air ducts to guarantee inner temperature consistency, CFC-Free/HCFC refrigerant

- Efficient moisture removal via low-temperature drying under vacuum
- 7-inch color LCD with real-time and historical curve display, programmable drying cycles
- Available in gland-type, and multi-manifold setups for bulk, vial, or bottle drying
- The Trumetrix-N Series Freeze Dryers are precision-engineered for laboratory-scale freeze-drying of heat-sensitive materials
- Double-stack refrigeration system, mature technology, low temperature, for -80 °C freeze dryer; electric defrost function, accelerates defrosting speed and shortens drying cycle
- Wide mouth manifold freeze-dried bottle configuration
- Fully automatic vacuum differential pressure valve to prevent oil backflow

FREEZE DRYERS





GLASSWARE WASHER



Designed for research and industrial labs, laboratory glassware washers deliver fast, thorough cleaning of beakers, flasks, and narrow-neck lab ware

Featuring adjustable racks, customizable wash cycles, and high-pressure jets, these systems ensure residue-free results while enhancing productivity and regulatory compliance

- 5 inch colorful capacitive touch screen, with glass panel. Innovative intelligent human-computer interactive control system Traceable, comprehensive data management
- Sharing mode of multi-user management
- Comprehensive water quality monitoring and alarm
- Perfect consumables management
- Innovative Internet of Things (IOT) and cloud platform technology
- Powerful system overview diagram, Full security protection

WATER PURIFICATION SYSTEM



DISSOLUTION TESTER



- A dissolution tester measures the rate and extent to which the active pharmaceutical ingredient is released from a tablet or capsule. It simulates drug release in physiological conditions to ensure consistent bioavailability
- Featuring a 10-inch color touch screen
- Store and run up to 100 methods
- The instrument has built-in light-sensitive illumination
- 3 Level user control

DISINTEGRATION TESTER



- A disintegration tester determines how quickly tablets or capsules break down into smaller fragments in a specified medium. Color touch screen operation
- With a 3-cup design, 3 sets of disintegration time limit tests can be performed simultaneously. 3 cups independent lighting system for easy observation
- Using high-precision platinum resistance Pt1000 sensor, the temperature is more accurate

HARDNESS TESTER



- Tablet Hardness Tester is a pharmaceutical analysis device crafted to measure four physical attributes of tablets: hardness, diameter, thickness, and weight
- 7" Color touch screen operation
It has a self-diagnosis feature that automatically alerts users to any abnormal situations during the testing process
- With a real-time clock function, it can print the testing and calibration date and time on the report

MEDIA DEGASSER



- Color touch screen, clear parameters
- Easy to operate. High degassing efficiency: 1500ml/min
- Heating range: room temperature ~ 45 °
- Can handle solvents, pure water, and distilled water commonly used in dissolution experiments, with a wide range of applications

WATER PURIFICATION SYSTEM



Innovative intelligent human-computer interactive control system and 7-inch colorful capacitive touch screen, integrating functions of Internet of Things (IOT) and cloud platform, embedding new purification cartridges with patented structure, rigorous double RO system[1], advanced EDI module[2] and DI ion-exchange cartridges with larger capacity, equipping with professional-grade pure water tank with 60-liter and HiDis water dispenser arm, can meet your critical and professional application requirements of lab pure water.

UNIQUE FEATURES

- Traceable comprehensive data management
- User management
- Comprehensive water quality monitoring and alarm
- Perfect consumables management
- Innovative Internet of Things (IOT) and cloud platform technology
- Flexible and diverse water dispensing mode
- Intuitive tank storage status
- Powerful system overview diagram

FLOOR STANDING REFRIGERATED CENTRIFUGE

The TM-10C is a Floor standing high speed refrigerated centrifuge with intelligent LCD touch screen, the max capacity is up to 6x1000ml, which is popular in vaccine production, large-capacity fermentation products, cell culture, etc.

- up to 1000 user-defined programs
- up to 100000 run histories, can be exported as PDF file
- Automatic rotor recognition to prevent over speed
- Motorized electronic self-priming door lock
- Door cannot be opened when rotor is spinning
- 20°C to +40°C, 1°C increment
- ±1°C high temperature accuracy



TECHNICAL DATA

Model	TM-10C	Speed Accuracy	±10rpm
Max Speed	10000rpm	Time Setting	1s~99h59m59s
Max RCF	18590xg	Noise	≤ 65dB(A)
Max Capacity	6x1000ml	Power Consumption	5500w
Temperature Range	-20°C+ 40°C	Dimension	740 x 720 x 900mm
Temperature Accuracy	± 1°C	Weight	250kg



TRU metrix INSTRUMENTS

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