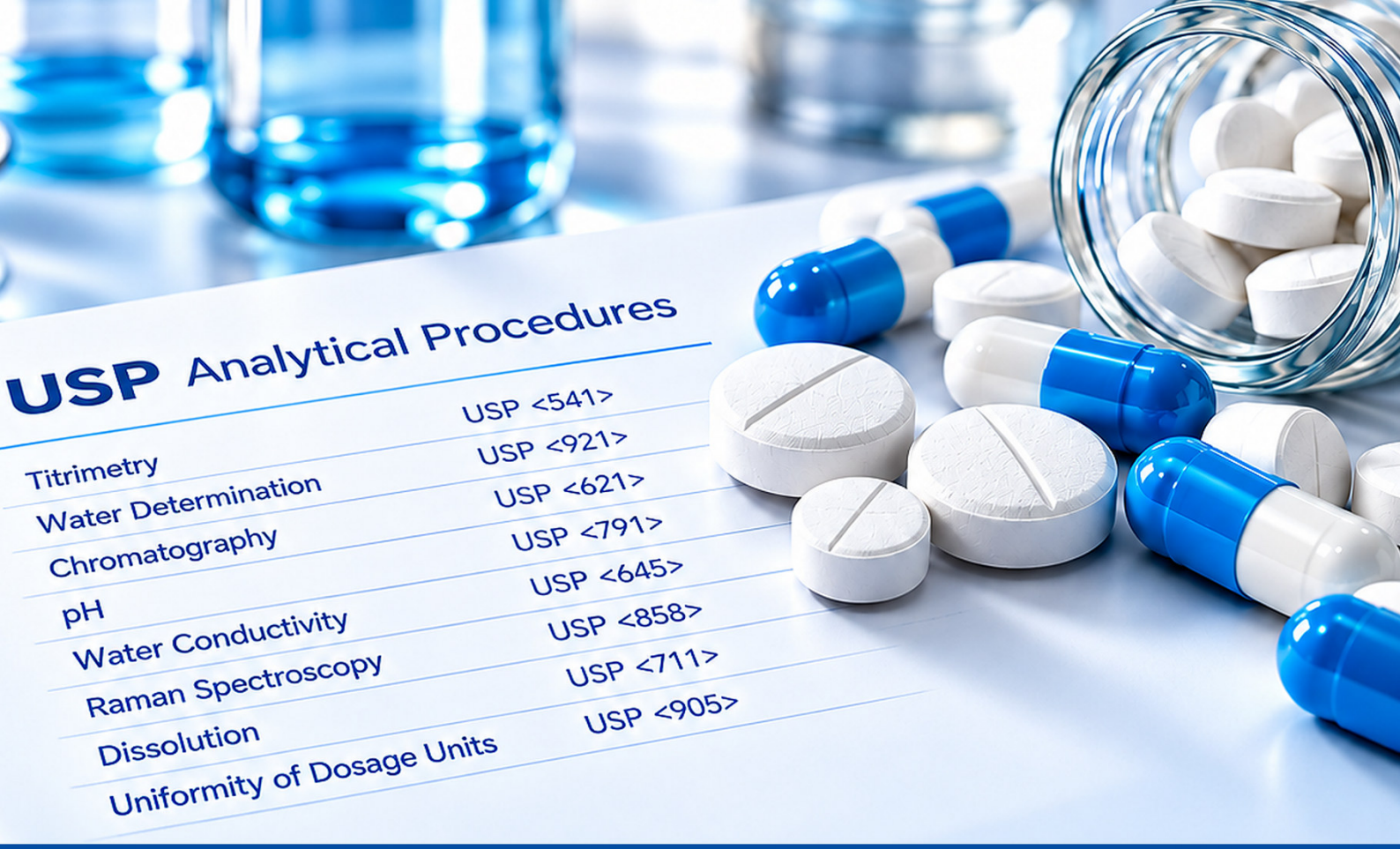


Pharmaceutical Laboratory Solutions

CWTC

Continental Worldwide Trading Company

BÜCHI Metrohm ATAGO® B&W TEK A Metrohm Group Company IWAKI Laboratory Glassware

asecos® Julabo VEOLIA

Potentiometric Titration

Metrohm

Accurate and reliable water determination for raw materials, active ingredients and intermediaries. From routine moisture testing to advanced automated workflows, Metrohm offers Karl Fischer solutions for all pharmaceutical applications.

Eco Titrator



- Basic titrator for routine applications
- Compact touchscreen design.
- Pre-defined methods for routine QC.
- Swiss-made platform designed for straightforward daily QC use.

GLP REPORTS | PRINTER | BASIC USER MANAGEMENT | IQ/OQ | PC/LIMS |

916 Ti-Touch



- Stand-alone touch screen system for regulated environments.
- High performance and accuracy with Dosino & Dosing unit.
- Configure multiple applications to run sequentially.

USER MANAGEMENT| PRINTER | 21 CFR PART 11 | IQ/OQ | PC/LIMS | USB CONNECTIVITY

Titrando Potentiometer



- Flexible PC-controlled platform that can support both potentiometric and KF titration.
- Multiple dosing systems and accessories can be integrated for titration, reagent addition, liquid handling and automated workflows.
- Complete CFR Part 11 compliance including user management, audit trails etc.

USER MANAGEMENT| PRINTER | 21 CFR PART 11 | IQ/OQ | LIMS CONNECTIVITY

OMNIS Titrator



Scan for Video

- Potentiometric, KF, thermometric & other titration techniques supported.
- Up to four fully automated titrations in parallel.
- High-resolution dosing with up to 250,000 steps
- PC or network-controlled operation through OMNIS
- Expandable with dosing modules, measuring modules and sample automation.

21 CFR PART 11 | IQ/OQ | LIMS CONNECTIVITY | USER MANAGEMENT| PRINTER | PARALLEL TITRATION | AUTOMATION

Types of Titration

Metrohm titrators support a wide range of potentiometric titrations used in pharmaceutical laboratories, including:

ACID BASE | NON-AQUEOUS | REDOX | PRECIPITATION/ARGENTOMETRIC | COMPLEXOMETRIC

Karl Fischer Titration & Coulometry

Metrohm

Accurate and reliable water determination for raw materials, active ingredients and intermediaries.

Eco KF / Eco Coulometer



- Volumetric KF or Coulometer for routine water determination.
- Possibility for connecting with KF Oven for special
- applications.
- Reliable & safe handling of reagents.

GLP REPORTS | PRINTER | BASIC USER MANAGEMENT | IQ/OQ | PC/LIMS | USB DATA TRANSFER

915 KF Ti-Touch / Coulometer



- Touchscreen control without a PC.
- Volumetric or coulometric analysis depending on configuration
- Automation possibility along with KF oven for special applications.

USER MANAGEMENT| PRINTER | 21 CFR PART 11 | IQ/OQ | PC/LIMS | USB CONNECTIVITY

Titrando Karl Fischer / Coulometer



- Flexible PC-controlled platform for advanced methods
- Supports volumetric KF workflows and broader method customization
- Secure fit for GMP-oriented QC workflows
- With optional autosampler, KF Oven & other accessories.

USER MANAGEMENT| PRINTER | 21 CFR PART 11 | IQ/OQ | LIMS CONNECTIVITY

OMNIS Karl Fischer / Coulometer



- OMNIS software for high performance, modularity & security, with full automation options.
- Available for volumetric KF and coulometric analysis.
- High level automation with sample robots is possible.

21 CFR PART 11 | IQ/OQ | LIMS CONNECTIVITY | USER MANAGEMENT| PRINTER | PARALLEL TITRATION | AUTOMATION

5 year
PC software support warranty
Conditions apply

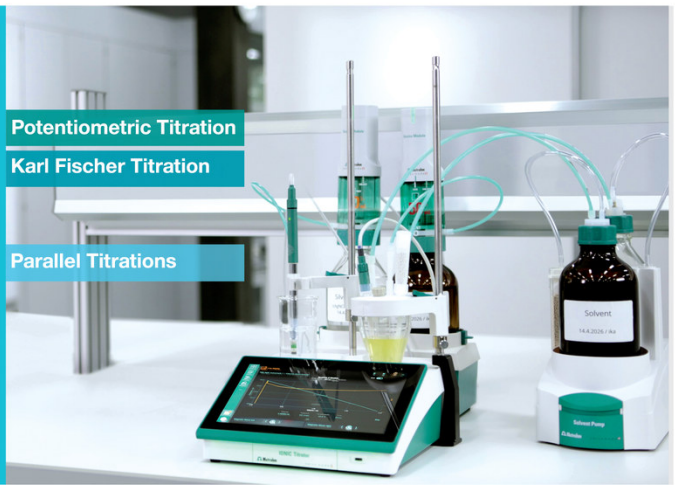
3 year
instrument warranty
Conditions apply

Metrohm
Swiss Quality

Ionic Titrator - One Titrator, Multiple Possibilities

Maximum performance with unique ease of use - without a computer.

- Large 10-inch touch display: Swipe, zoom,scroll- just like you do on your tablet
- Modular: Use up to four burets and three measuring inputs and perform two determinations in parallel.
- New Dosino Module with a resolution of 250,000 steps
- Parallel Titrations & CFR Part 11 Compliance.
- The first titrator with LAN, WiFi, and mobile communication module. Save your determinations directly in the cloud.



pH, Conductivity, DO & Ion Meters

Metrohm

Portable measurement for routine work and compliant benchtop systems for regulated laboratories.

912/913/914 Portable Meters



- Robust portable measurements for lab & field use.
- 912:conductivity, TDS, salinity and temperature
- 913: pH and mV ; & pH/DO
- 914: pH, conductivity and DO
- IP67 housing, internal memory and User / Expert operating modes

GLP REPORTS | PRINTER | BASIC USER MANAGEMENT | PC CONNECTIVITY

780 / 781 pH & Ion Meters



- 780; pH, mV/ORP & temperature
- 781; Ion concentration measurement
- Internal method memory.
- Connectivity for Dosimat standard addition, stirrer, printer and PC.
- GLP-compliant reporting capability

GLP REPORTS | PRINTER | BASIC USER MANAGEMENT | PC CONNECTIVITY

949 pH Meter



- pH, mV and ORP measurement
- GLP-compliant results with date and time
- RS-232 interface for printer or PC

GLP REPORTS | PRINTER | PC CONNECTIVITY



867 / 856 pH Conductivity

- Modular pH, Ion & Conductivity Measurement for Regulated Laboratories
- pH, mV, ion concentration, conductivity, TDS & salinity.
- Suitable for USP <645> conductivity applications.
- Supports intelligent electrodes and advanced sensor diagnostics.
- Expandable with Dosinos, stirrers and sample automation.

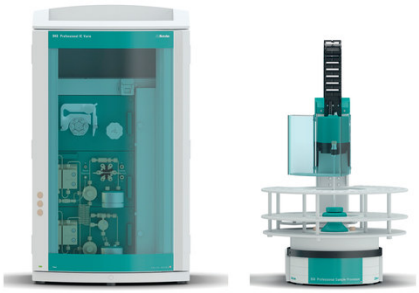
PRINTER | IQ/OQ | PC/LIMS | GLP REPORTS | CFR PART 11 | USER MANAGEMENT | USP

Ion Chromatography

Ion chromatography provides accurate, selective determination of ionic and polar species in pharmaceutical raw materials, APIs, formulations and purified water.

930 Compact IC Flex — Compact single-channel IC for routine pharmaceutical analysis of anions, cations and polar substances, with excellent sensitivity and flexible detection options.

940 Professional IC Vario — High-end, fully configurable IC platform for demanding applications, advanced method development, multi-channel analysis and automation.



Key Applications

- Anions: chloride, fluoride, bromide, nitrate, sulfate, phosphate
- Cations: sodium, potassium, ammonium, calcium, magnesium
- Counterion determination in APIs and salts
- Trace ionic impurities in raw materials and formulations
- Purified water and process-water monitoring
- Organic acids and other polar ionic species

PHARMACOPEIA COMPLIANCE | CFR PART 11 | AUTOMATION | PC/LIMS

MIRA P — Handheld Raman for Raw Material Identification

MIRA P is a compact, high-performance handheld Raman spectrometer for rapid, non-destructive identification and verification of pharmaceutical APIs, excipients and raw materials. Measurements can be performed directly at the warehouse, receiving area or QC laboratory, including through suitable transparent packaging.

Designed for Pharma RMID

MIRA P uses 785nm laser wavelength to measure all kinds of APIs, excipients and powders and identify them in a matter of seconds.

The unit also has extensive sample accessories for different kinds of sampling including routine sampling through vials/containers, and even non-contact analysis of pharmaceutical samples.



Key Features

- Rapid PASS / FAIL identification of incoming raw materials
- Through-container analysis for suitable bags, bottles and vials
- 785 nm Raman excitation with ORS technology for improved sampling
- USP library with support for customized identification methods
- Rugged handheld design for warehouse, production and laboratory use
- Calibration and verification tools supporting USP <1120> and Ph. Eur. 2.2.48 conformity checks

21 CFR PART 11 | IQ/OQ | PC/LIMS | USER MANAGEMENT| PHARMACOPEIA COMPLIANCE

NanoRam® 1064 - Handheld Raman

NanoRam®-1064 is a high-performance handheld Raman spectrometer designed for rapid, non-destructive identification and verification of pharmaceutical raw materials including APIs, excipients and intermediates.

Why 1064nm Raman?

Fluorescence can overwhelm the Raman signal from certain pharmaceutical materials. By using a longer 1064 nm laser wavelength, NanoRam 1064 minimizes fluorescence and expands the range of materials that can be reliably identified.

This is especially useful for:

Colored Raw Materials
Complex Excipients: Including cellulose, polysorbates and film coating systems Opadry® film-coating systems
Natural Products & Botanicals



Key Features

- Rugged IP65 handheld design
- 1064 nm Raman for greatly reduced fluorescence
- Rapid PASS / FAIL raw material identification
- Measurement through suitable glass and plastic containers
- 21 CFR Part 11 compliant software environment
- Complete audit trail and electronic report signing
- On-board method development and validation

CFR PART 11 | PC/LIMS CONNECTIVITY | IQ/OQ/PQ | GMP/GLP | USP/BP COMPLIANCE | USER MANAGEMENT

Scan for Video

Versatile Sampling Accessories

Measure solids, powders, liquids, gels and tablets with dedicated accessories


Immersion probe for RMID liquids


Powder RMID through plastic packaging


Warehouse RMID of raw materials in drums


RMID of solvents through amber bottle


Raman screening of pharmaceutical tablets

ELGA LabWater | Pure & Ultrapure Water

Pharmaceutical QC depends on consistent high-quality water for HPLC / UPLC, ion chromatography, TOC, spectrophotometry and preparation of standards, reagents and mobile phases.

PURELAB Quest/ Quest UV

TYPE 1 | TYPE 2 | TYPE 3

Compact 3-in-1 laboratory water system

- Produces Type I, II and III water from a single tap-fed system
- Integrated 7 L reservoir; optional 15 L or 30 L external reservoir
- Quest UV supports <5 ppb TOC Type I water for low-organic applications
- Volumetric dispensing and compact bench /wall-mount design



Water Quality & Capacity

Type I: 18.2 MOhm.cm @ 25 °C,
Type II: >1 MOhm.cm,
Type III: RO-permeate,
Dispense: up to 1.2 L/min, Typical Use: 1-10L/ day

Scan for Video

PURELAB Flex 3

TYPE 1

Tap to ultrapure water with real-time TOC monitoring

- Integrated 7 L reservoir with fully recirculating purification loop
- Real-time TOC monitoring at the point of dispense
- Flexible dispenser for different vessel sizes and controlled volumes
- Ideal for liquid chromatography, mass spectrometry, spectroscopy & buffers



Water Quality & Capacity

Type I: 18.2 MOhm.cm @ 25 °C,
TOC: <5 ppb
Dispense: up to 2.0 L/min
Typical use: 1-10 L/day

PURELAB Chorus 1 with TOC Monitoring

TYPE 1

High capacity tap-to-ultrapure water

- Complete tap-to-ultrapure system with fully recirculating water loop
- Real-time TOC monitoring and water quality controls at the point of use
- Up to approximately 440-480 L/day depending on configuration and usage
- Reservoir options include 15, 30, 60 and 100 L for larger QC laboratories



Water Quality & Capacity

Type I: 18.2 MOhm.cm @ 25 °C,
TOC: <5 ppb
Dispense: >1.5 L/min, Production 20L/hr
Typical use: 480 L/day

IQ/OQ | PHARMA COMPLIANCE | DATA LOGGING | USB CONNECTIVITY

Buchi Laboratory Solutions

High-quality solutions for pharmaceutical sample preparation, purity testing and nitrogen / protein analysis - from rotary evaporation to melting point determination and complete Kjeldahl workflows.

Rotary Evaporators

Suitable for concentration, distillation and drying of sensitive pharmceutical compounds.



- Gentle solvent evaporation under vacuum for heat-sensitive compounds
- Modular integration with vacuum pumps, chillers and vacuum controllers
- Precise temperature and pressure control for reproducible evaporation.
- R-300: modular system upto 5L flasks with electric lift & multiple glass configurations.
- IQ/OQ and repeating OQ documentation are available.

Typical Pharmaceutical Applications

Sample Concentration • Solvent exchange • Solvent recovery • Drying • Recrystallization • Formulation & purification

Kjeldahl Nitrogen Determination

Reliable Nitrogen Analysis for Pharmaceutical QC

BUCHI's Kjel Line K-365 combines accurate steam distillation, controlled reagent addition and advanced safety functions to provide reproducible nitrogen determination with reduced operator handling.

Kjeldahl Workflow

Digestion -> Steam Distillation -> Titration -> Documented Result



- Measuring range of 0.02–220 mg nitrogen and provides recovery greater than 99.5% for direct distillation
- Automatic NaOH and H2O dosing reduces manual reagent handling
- Adjustable 10–100% steam power
- IQ/OQ documentation available

PHARMACOPEIA COMPLIANCE | CFR PART 11 | AUTOMATION | IQ-OQ

Melting & Boiling Point

The BUCHI Melting Point M-565 provides automatic determination of melting and boiling points for pharmaceutical QC, helping confirm material identity and assess purity with reproducible, documented measurements.



- Automatic melting and boiling point determination.
- USP, Ph. Eur. and JP compliant
- Measures up to 3 samples simultaneously
- Video recording for review of phase transitions
- IQ/OQ documentation available for GLP/GMP laboratories
- Advanced User Management & Calibration options

PHARMCOPEIA COMPLIANCE | IQ-OQ | PRINTER | PC CONNECTIVITY | GLP | USER MANAGEMENT

ATAGO Pharma Measurement Solutions

High-precision optical instruments for refractive index, Brix, optical rotation and concentration measurement. In pharma laboratories, ATAGO systems support incoming raw-material testing, identity and purity checks, formulation control and routine QC with fast measurements, minimal sample preparation and precise temperature control.

RX Series Benchtop Digital Refractometers

The ATAGO RX Series provides accurate, automated determination of refractive index and concentration for pharmaceutical raw materials, APIs, solvents, liquids and formulated products. Precise electronic temperature control helps deliver consistent results independent of ambient laboratory conditions.



Key Features:

- High-accuracy Refractive Index (nD) and Brix measurement
- Built-in Peltier temperature control for stable, reproducible results
- CFR Part 11 Software RefractoSoft for compliance
- Easy-to-clean sample stage designed for routine laboratory use
- Connectivity for PC, printer and data-management workflows
- GLP/GMP oriented reporting with sample identification, date, time, temperature and measurement results.

	RX-5000i Plus	RX-9000i
Refractive Index Range (nD)	1.324200 to 1.580000	1.299800 to 1.715000
Brix Range	0.000 to 100.000%	0.00 to 100.00%
RI Resolution	0.000001	0.000001
Brix Resolution	0.00%	0.01%
Temperature Resolution	0.01°C	0.01°C
RI Accuracy	±0.000020	±0.000040
Brix Accuracy	±0.010%	±0.03%
Temperature Control Range	5.00 to 75.00°C	5.00 to 75.00°C

USER MANAGEMENT| 21 CFR PART 11 | IQ/OQ | PC CONNECTIVITY | PRINTER | USB CONNECTIVITY| PHARMACOPEIA COMPLIANCE

Automatic Polarimeter SAC-i

High-precision automatic polarimeter for measurement of optical rotation, specific rotation and concentration of optically active pharmaceutical substances. With automatic measurement, touchscreen operation and dedicated temperature control and CFR compliance, SAC-i supports traceable pharmaceutical QC workflows.



Key Features:

- 589nm measurement wavelength, 0.0001° angle-of-rotation resolution
- Touchscreen operation with digital data output to PC, USB or printer
- Measures angle of rotation, specific rotation, concentration and temperature
- Fast automatic measurement with storage of up to 5,000 results
- Measurement range -89.9999 to +90.0000° or -360.0000 to +360.0000°
- Measurement stability in 12 seconds
- Temperature correction range 10 to 40°C

USER MANAGEMENT| 21 CFR PART 11 | IQ/OQ | PC CONNECTIVITY | PRINTER | GMP/GLP | PHARMACOPEIA COMPLIANCE

IWAKI Volumetric Glassware Class A

IWAKI Laboratory Glassware

Accuracy, Traceability and Documentation for Pharmaceutical Laboratories

IWAKI provides Class A volumetric glassware for accurate preparation, transfer and measurement of liquids in pharmaceutical QC, analytical and research laboratories.

The range includes volumetric flasks, volumetric and measuring pipettes, measuring cylinders and burettes, manufactured from durable borosilicate laboratory glass and supplied to the applicable Class A tolerances.Each certified volumetric item carries batch identification linked to manufacturer documentation, helping laboratories maintain traceability for routine solution preparation, standards, dilutions and titrants.



Volumetric Flask
Class A, Clear
5645 Series



Volumetric Flask
Class A, Amber
55645 Series



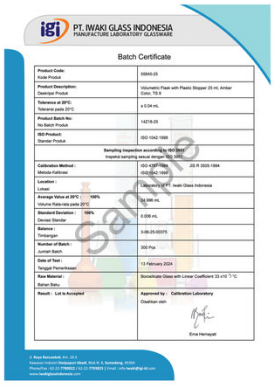
Graduated Cylinder
Class A
3022 Series



Pipettes Class A
Volumetric & Measuring
7000/7100 Series



Buret, Class A
Clear/Amber
BURET Series


PT. IWAKI GLASS INDONESIA
MANUFACTURE LABORATORY GLASSWARE

Batch Certificate

Sample

Batch traceability

- Batch number printed on the article and original packaging
- Links the item to the corresponding manufacturer batch certificate
- Certificate records nominal volume, tolerance, batch number, and test information against ISO standard
- Supports retained documentation for supplier qualification and audit-sensitive laboratory records

Volumetric Glassware Class A is available with individual calibration certificate as well.

Discover OMNIS NIR

- Measure liquid and solid samples in less than 10 seconds.
- Develop prediction models at the push of a button.
- Minimal maintenance effort thanks to robust components, reduced number of moving optical parts, and IP54-rating.
- Full compliance with 21 CFR Part 11, USP 856,EP, and JP
- Automation options available to measure more than 200 samples unattended.



SCAN TO LEARN MORE

Certified Storage of Hazardous Materials

Asecos provides certified safety storage solutions for laboratories, pharmaceutical facilities and industrial workplaces where flammable liquids, corrosive chemicals and compressed gases must be stored safely and close to the point of use.

Q-Line Safety Cabinet

Safe & compliant storage of flammables



- Up to 90 minutes fire resistance
- Designed for safe storage of flammable hazardous liquids
- Certified to EN 14470-1; selected models also carry FM / UL approvals
- Prepared for connection to a technical ventilation system

SL-Line Safety Cabinet

Safe & compliant storage of corrosives (acids/alkalis)



- Corrosion-resistant construction and interior
- Separate, sealed compartments support safe chemical segregation
- Interior configuration adjustable for different container sizes
- Optional dedicated compartment for hydrofluoric acid

K-Line Safety Cabinet

Combined Storage of multiple chemicals



- Stores flammable liquids, acids and alkalis in one cabinet
- Hermetically separated compartments with a fire-resistant dividing wall
- Corrosion-resistant sections for aggressive chemicals
- Certified to EN 14470-1, GS and EN 16121/16122

G-Line Gas Cylinder Storage Cabinet

Safe indoor storage of gas cylinders



- Designed for safe indoor storage of compressed gas cylinders
- 90-minute fire protection available under EN 14470-2
- Suitable for positioning high-purity gases close to laboratory processes
- Available in multiple sizes for different cylinder configurations



Multiple color and size options



Precision Temperature Control Solutions

Julabo
THE TEMPERATURE CONTROL COMPANY

High performance temperature control solutions for a wide range of laboratory applications.

Pura Water Bath



- For sensitive applications from ambient to 99.9°C,
- Temperature sensitivity ±0.15 °C
- Advanced safety built-in to the system.
- Bright, white, easy to read display

PC CONNECTIVITY | IQ/OQ

Heating Immersion Circulator



- Clear bath allows users easy viewing
- of glassware during use.
- Easy switching between internal and external circulation
- Temp Range upto 100°C
- Optional available with steel tanks and with external PT sensors.

PC CONNECTIVITY | IQ/OQ | USB Optional

Refrigerated Heating Circulators



- Range: -40°C to 200°C
- Connection with reactors, external instruments for precise control
- Internal + External applications
- Customizable with external temp. sensors, racks etc.,

PC CONNECTIVITY | IQ/OQ | USB Optional

BEYOND INSTRUMENTS - COMPLETE LABORATORY SUPPORT

- Installation & Commissioning
- IQ/OQ & Qualification Support
- Application Training
- Preventive Maintenance
- Technical Service

CWTC

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