



JATIKHAS SDN BHD

2018/2019 PRODUCT CATALOGUE



Your Laboratory Equipment Specialist



ABOUT US

JATIKHAS SDN. BHD. is a company which deals mainly in trading and manufacturing of scientific products. Established in September 1996, our company strives to supply good quality products and after-sales services to meet our customers' satisfaction.

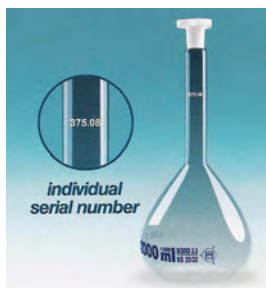
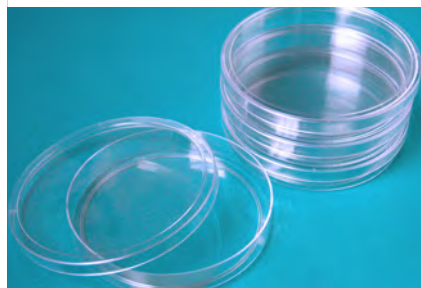
The Company's vision is to capture the promising emerging dealer's segment, be the forerunner of a highly innovative value chain network in the market, and expand the current end-user market by providing product training and excellent after-sales service.

Jatikhas Sdn. Bhd. is also embarking on a very aggressive expansion plan covering import and export trade through acquiring more internationally acclaimed manufacturer's agencies and initiating the manufacturing of its own product range.

The Company also vows to continuously seek to improve customer satisfaction via platforms of 'Sharing, Quality Service and Commitment'.

www.jatikhas.com





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AUTOCLAVE

New Swiftlock Compact Autoclaves



Astell's range of New Swiftlock Autoclaves offers guaranteed precision and versatility in sterilization. All units (23, 40 and 60L) are suitable for a wide range of autoclaving applications and provide remarkable flexibility and unrivalled convenience in today's quality conscious laboratory.

Advantages of the New Swiftlock Compact Autoclaves

All models:

- **4 Programme Micro-Controller For user flexibility, to suit all applications**
- **Ultra Quick New Swiftlock Door Mechanism** – To enable easy access both before and after the cycle
- **Temperature Range 100 – 138°C (0.2 - 2.4 bar)** – Fully programmable temperature control allowing all sterilization requirements to be met
- **316L Stainless Steel Pressure Vessels** – All autoclaves are built to the highest quality and conform to PED5500 PED EN/97/23/EC
- **Conformance with National and International Standards** – To ensure safety and peace of mind for any user
- **Designed for Maximum Chamber Capacity**
– e.g. The AMB230 (40 litre) unit will accommodate eleven 1 litre Duran bottles
- **Autofill Version**
 - **Automatic Water Fill**
– No installation is required: the units can be positioned almost anywhere in the laboratory
 - **Water Recycling as Standard**
– The Autofill benchtop range can run for up to twenty cycles before the water tank needs replenishing
- **Integral Drying System**
– For added convenience

New Swiftlock Autoclaves 90-330 Litres



Astell offers a range of front and top loading microprocessor controlled Autoclaves, in volumes from 90-300 litres. All models are designed to maximise efficiency, provide user safety and ensure ease of operation in the modern quality laboratory or sterilization facility.

Advantages of the New Swiftlock Compact Autoclaves

- **Front and Top Loading Models**
– In sizes to suit all Laboratories and Sterilization Facilities
- **SECURE+ Microcomputer Control** – Allows simple control and complete user flexibility
- **Ultra Quick New Swiftlock Door Mechanism** – To enable easy access both before and after the cycle
- **Temperature Range 100°C - 138°C (0.2 - 2.4 bar)** – Fully programmable temperature control allowing all sterilization requirements to be met
- **316L Stainless Steel Pressure Vessels** – All autoclaves are built to the highest standards to give long lasting quality
- **Conformance with National and International Standards** – To ensure safety and peace of mind
- **Integral Cooling Locks** – For the safe sterilization of liquids
- **Wide Variety of Options and Accessories** – Providing optimum performance in the most demanding situations



A
B
C
D
E

BALANCE

HR Series – 0.01mg resolution up to 51g

GR Series – 0.01mg resolution up to 42g

GH Series – 0.01mg resolution up to 101g

Semi-micro analytical balance

Accessories:

- Density determination Kit
- Anti-vibration table for balances



FUME EXTRACTION SYSTEM

For air volumes between

- 20 - 85m³/h = ALSIDENT SYSTEM® 50
- v80 - 180m³/h = ALSIDENT SYSTEM® 75

Fume extraction systems are now a frequent part of the modern workplace

– Legislation often requires individual fume extraction systems for the protection of workers. Productivity and efficiency are also dependent on personal motivation.

The classic ALSIDENT SYSTEM®

– The exhaust arm was originally developed for soldering benches, but can now be used for many other purposes.

The ALSIDENT SYSTEM® was designed to remove glass, smoke, fumes, smells and dust particles with the utmost safety. New accessories for the system are under constant and ongoing development in order to achieve optimal flexibility for the wide range of uses to which it is put.

DENSITY METER

- EasyDens
- DMA™ 35 (Portable)
- DSA 5000 M
- DMA™ 4500 M
- DMA™ 5000 M
- DMA™ 4100 M
- DMA™ 1001
- DMA™ 501

Specifications:

- Minimum sample volume:
1 - 3mL
- Measuring time per sample:
30 secs - 4 mins
- Temperature range:
0°C - 100°C



DSA 5000 M



DMA 5000 M



EasyDens

REFRACTOMETER



- Abbemat 450
- Abbemat 650
- Abbemat 3000
- Abbemat 3100
- Abbemat 3200
- Abbemat MW
- Abbemat T-Check
- Abbemat Juice Station
(200, 300 & 550)

Specifications:

- Configuration
- Heavy duty line / Compact /
Multi-wavelengths

VISCOMETER

- Lovis 2000 M/ME
- SVM™ 2001
- SVM™ 3001
- SVM™ 4001
- Xsample 340
- L-Vis 520 Ex
- RheolabQC
- High Throughput Viscometer HTV

Specifications

- Temperature range: -60°C to 135°C



High Throughput Viscometer HTV

MICROWAVE DIGESTER

- Rotor 8NXQ80
- Rotor 8NXF100
- Multiwave GO
- Rotor 8EVAP
- Rototr 1DRY
- Multiwave 7000
- Rotor 16SOLVHF100
- Rotor 16SOLVMF100
- Rototr 16HF100
- Rotor 16MF100
- Monowave 450
- Rotor 24HVT50



Monowave 450



Rotor 16MF100

TRIBOMETER

Nano Tribometer (NTR3)

- Standard
- High Load
- High Resolution



Maximum Load:
Up to 1000 N

Reciprocating angle:
 $\pm 10^\circ$ to $\pm 150^\circ$

Rotational speed:
1 rpm to 200 rpm (pin-on-disk)

SCRATCH TESTER

Revetest Macro Scratch Tester (up to 200 N)
Standard
High Load
High Resolution



Application:
Ceramic
Optical Components
Hard Coatings
Semiconductor Technology
Biomaterials

Maximum Load: Up to 200 N

Scratch Speed: Up to 600 mm/min

RHEOMETER

- MCR 702 TwinDrive
- MCR 102, 302, 502
- MCR 72 and MCR 92
- RheolabQC



Angular Deflection:
0.5 to ∞

Maximum Speed:
Up to 3000 RPM

Maximum Temperature Range:
Up to 1000°C

PARTICLE CHARACTERIZATION

Litesizer™ 100
Litesizer™ 500



Temp. control range:
0–90 °C

Wavelength:
658 nm

Measuring range:
0.3 nm – 10 μm^* (particle diameter)

POLARIMETER

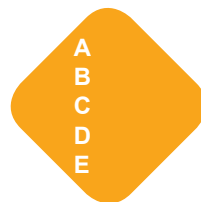
- MCP 5100/5300/5500 Modular Circular Polarimeter
- MCP 100 Modular Circular Polarimeter
- MCP 150 Modular Compact Polarimeter



Measuring range:
 $\pm 89.9^\circ$

Wavelength:
589 nm

Standard spectral wavelengths:
365, 405, 436, 546, 578,
633, 880 nm





ATAGO has been the leader in refractometer technology for over 70 years. ATAGO continually strives to produce new instrumentation by researching various and unique needs in the market. Atago products are well known with its high quality and affordable price.

POLARIMETER



AP-300 – Automatic 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.

OTHER MODELS:

SAC-i
Angle of Rotation: 0.001°
Wavelength: 589nm

RePo-1
Angle of Rotation: ±0.1°
Wavelength: 589nm

AP-300
Angle of Rotation : 0.01°
Wavelength: 589nm

POLAX-2L
Angle of rotation : 0.05°
Wavelength: 589nm

REFRACTOMETER



Master Series – Handheld Refractometer

- Well balanced design
- Easy to read scale
- Easy maintenance and cleaning
- Automatic sample distribution
- Award winning models



PAL Series – Digital 'pocket' Refractometer

- Light & Compact
- Digital reading
- Automatic temperature compensation
- Water resistant
- Easy maintenance and cleaning
- Small volume sample (2 – 3 drops)
- Award winning models



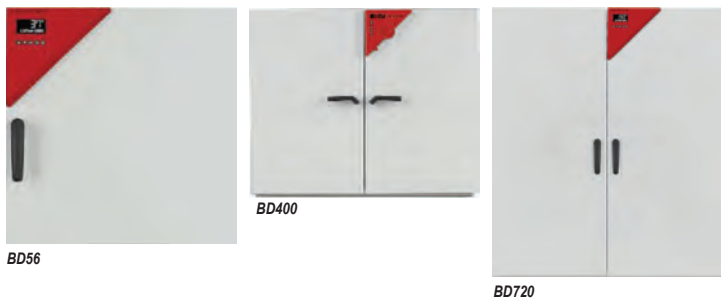
OTHER MODELS:

• **RX-i Series**
Measurement Accuracy: ± 0.00004 %
Refractive Index Range: 1.32422 to 1.70000

• **RX-α**
Refractive Index Range: 1.32422 to 1.70000
Temperature Control: Up to 70°C

• **Digital Hand-Held "Pocket" Refractometer PAL**
Measurement Accuracy: ±0.2 %
Temperature: ±1°C

INCUBATOR



BD56

BD400

BD720

CO2 Incubators

- with hot air sterilization and heat sterilizable CO2 sensor
- Size: 1.9 to 7.4 cu.ft

Incubators Avantgarde.Line

- with gravity/ forced convection
- Size: 2.0 to 26 cu.ft

Incubators Classic.Line

- with mechanical adjustment/gravity convection
- Size: 1.0 to 14.0 cu.ft

OVEN



E 28

ED 56

OTHER MODELS:

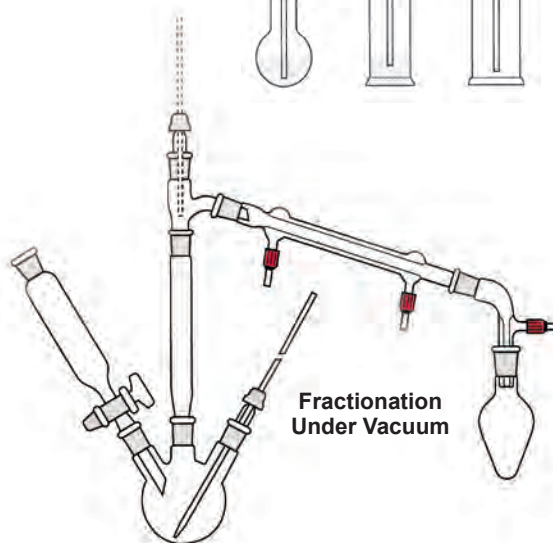
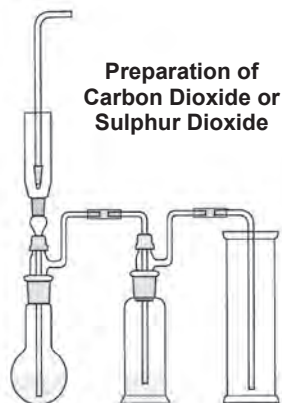
- Drying and Heating Chamber Avantgrade.Line
- Drying and Heating Chamber Classic.Line
- Safety Drying Chamber
- Vacuum Drying Chamber
- Constant Climate Chamber
- Dynamic Climate Chamber

Natural convection/ forced convection

Temperature Range: Up to 300 °C



JOINTED GLASSWARE & REACTOR SYSTEM (CUSTOMISED GLASSWARE)





SHAKER



FBS-O20

Rotary Speed: 30 - 200 RPM
Rotary Speed Precision: ± 1 RPM
Load per tray: ≤ 5 kg
Tray Size: 320mm x 320mm

SHAKING INCUBATOR



Series:
 Cooling Shaking Incubator, Constant Temperature Shaking Incubator

Rotary Speed: 30 - 300RPM
Inside Volume: 50 - 540L
Power: 1.2 - 1.6kW
Temperature Range: RT + 5 - 65°C
Temperature Resolution Range: 0.1°C
Temperature Motion: ± 0.5 °C
Timer: 0 - 9999min

THERMOSTATIC WATER BATH

Inner Tank: 1 hole, 2 holes, 1 row & 4 holes, 1 row & 6 holes, 2 rows & 4 holes, 2 rows & 6 holes, 2 rows & 8 holes

Power: 300 - 1500 W
Temperature Range: RT + 5 - 100 °C
Temperature Resolution Range: 0.1°C
Temperature Motion: ± 0.5 °C
Timer: 0 - 9999min



HOT PLATE STIRRER

BHP-4A
 BHS-4
 BHS-11-4D

CHOICES:
Top Plate: Ceramic / Aluminium
 With / without digital display

Speed: 200 - 2000 RPM
Size: 190 mm x 190 mm
Maximum Temperature:
 Up to 380 °C
Plate Load: 10 kg
Timer: 0 - 9999 min

Ceramic
 Magnetic
 Stirrer



OVERHEAD STIRRER

BOHS-11-6D

Power: 0/06kW
Voltage: 100-240V
Plate Size: 200 x 300mm
Plate Load: 50kg
Speed: 100 - 2500RPM
Maximum Volume: 20L



OVEN FORCED AIR DRYING

Capacity: 30L, 45L, 65L, 85L, 125L, 230L, 625L
 Voltage: 220 / 110V
 Power: 0.8 - 5 kW

Temperature Range: RT + 10 - 300 °C
 Temperature Resolution Range: 0.1 °C
 Temperature Motion: ± 1°C
 Load per rack: 15kg



WGL-30B

HEATING MANTLE

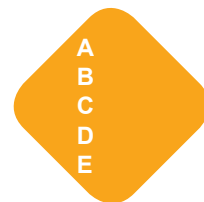
BHM-1-A
 BHM-11-D

CHOICE:
 - With / without stirring
 - With / without digital display
 - Single place / multi places

Capacity: 50 - 2000ml
 Power: 0.08 - 2.5kW
 Voltage: 220 / 110V



Digital & Magnetic Stirring Heating Mantle



WATER BATH SHAKER

Power: 1.5kW
 Voltage: 220/110V

Inner Chamber Size: 31L / 500 x 310 x 200
 Temperature Range: RT - 100°C
 Temperature Motion: ± 1°C
 Timing: 0 - 9999min



FWS-30

BOD INCUBATOR

Temperature Range: 0 - 65 ±1°C
 Capacity: from 70L up to 250L
 Shelf number: 9 to 18
 Load per rack: 15kg

Various constant temperature experiments and environmental test at 0 to 65°C

Application: Water analysis, Microbe Culture of BOD/Bacteria, Plant breeding and Sample preservation



HOT PLATE



BHP 6A
 BHP 7A

Working Time: Continuous
 Max Temp: 350°C
 Heating Power Range: 1200 - 3000W

CHEMICAL SAFETY CABINETS



FUME HOODS

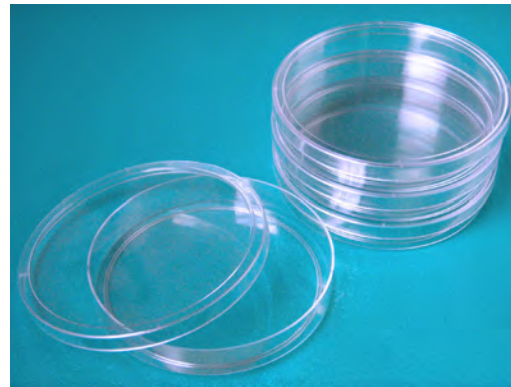


LABORATORY DESIGN



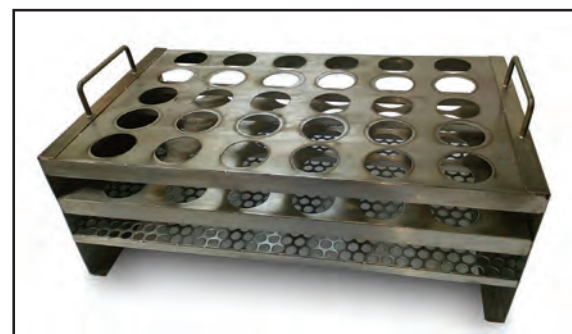
- Laboratory benches, furniture fitting
- LEV testing and DOE submission for fume cupboard, asistent arm and canopy

DISPOSABLE PETRI DISH – Sterile (Gamma-radiation)



- Laboratory culture studies will be simplified with the use of non-vented disposable petri dishes
- Made of clear polystyrene, it allows for disposability and durability, while keeping clarity
- Dishes are easy to stock and grip, and have an anti-slip ring which offers stability
- Bottoms are flat, providing a greater growth area for observation
- The 90mm x 15mm (diameter x height) petri dish is ideal for culture techniques requiring a big surface, such as anti-microbial and bacteriology studies
- Available in 500pcs and 600pcs packing

STAINLESS STEEL CUSTOM-MADE / CUSTOM DESIGNED PRODUCTS



MICRO PIPETTE



Model	Capacity	Adjustable	Colour
A4015	0.5 – 10µl	Yes	Yellow
A4016	2 – 20µl	Yes	Green
A4017	5 – 50µl	Yes	Grey
A4018	10 – 100µl	Yes	Purple
A4019	20 – 200µl	Yes	Red
A4020	50 – 200µl	Yes	Brown
A4021	100 – 1000µl	Yes	Blue
A4022	200 – 1000µl	Yes	Rose Red

(Pipettes Individually Wrapped)



Model	Capacity	Adjustable
A3021	0.1 – 2.5µl	0.05µl
A3022	0.5 – 10µl	0.1µl
A3023	2 – 20µl	0.5µl
A3024	5 – 50µl	0.5µl
A3025	10 – 100µl	1µl
A3026	20 – 200µl	1µl
A3027	50 – 200µl	1µl
A3028	100 – 1000µl	5µl
A3029	200 – 1000µl	5µl
A3030	1000 – 5000µl	50µl
A3031	2 – 10ml	0.1ml

(Pipettes Individually Wrapped)

VISCOMETER



OTHER SERIES:

- Dial Reading Viscometer
- DVE Viscometer
- DV1 Digital Viscometer
- DV2T Touch Screen Viscometer
- DV2T EXTRA Touch Screen Viscometer
- BF35 Viscometer
- CAP1000 Viscometer
- CAP2000 Viscometer
- Cone Plate Wells Brookfield Viscometer
- Falling Ball Viscometer
- KU-3 Viscometer

RHEOMETER



OTHER SERIES:

- DV3T Touch Screen Rheometer
- With touch screen
Accuracy: $\pm 1.0\%$
- PVS Rheometer
 - RST Coaxial Cylinder Rheometer
 - RST Cone Plate Rheometer
 - RST Soft Solids Tester Rheometer
 - Cone Plate Wells Brookfield Rheometer

HARDNESS TESTER



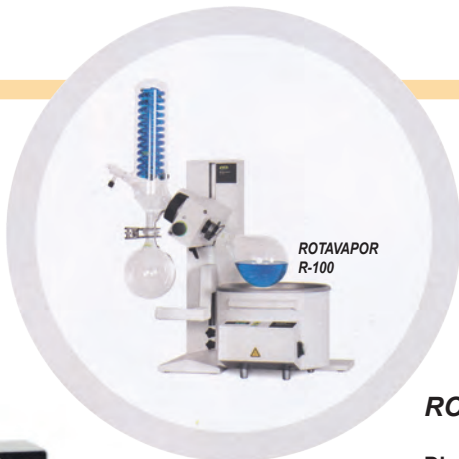
OTHER SERIES:

- CT3 Texture Analyzer
- CT3-100
- CT3-1000
- CT3-1500
- CT3-4500
- CT3-10 kg
- CT3-25 kg
- CT3-50 kg

Load Range: Up to 50kg

Speed Range: 0.1- 10mm/s

ROTARY EVAPORATOR



ROTAVAPOR R-300

- Dimensions:**
607 x 947 x 429 mm
- Rotation Speed Range:**
10 - 280 RPM
- Max. Flask Capacity:** 3kg
- Immersion Angle:** 10 - 50°
- Accessories:**
Heating Bath
Tubing
Extraction thimbles
Flask holder
Grease

MELTING POINT ANALYSER

- M-565
- M-565 + M-569



- Temperature Range:**
Ambient + 10 °C to 400 °C
- Altitude:**
Up to 2000 m a.s.l
- Humidity:**
Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C

FREEZE DRYER

- Lyovapor L-200
The first Freeze Dryer with Infinite Control
- Lyovapor 300
First lab Freeze Dryer for continuous sublimation

- Accessories:**
 - Pirani pressure sensor Inficon PSG 550
 - Capacitive pressure sensor Inficon CDG 020 D
 - Level sensor capacitive, for water canister



SPRAY DRYER



- Nano Spray Dryer B-90 HP
- Mini Spray Dryer B-290
- Solution «Spray Drying Large» (10-60 µm)
- Heating capacity:** 1400W
- Temperature:** 5 - 40°C
- Altitude:** Up to 2000m

NIR SOLUTIONS



- OTHER SERIES:**
 - X-One 1X1-Series
 - X-Two 11X2-Series
 - X-Three 11X3-Series
 - X-Beam 11XB2-Series
 - X-FFPA 11XF-Series
- Spectral Range:**
350-9090 cm⁻¹
- Ambient temperature:**
-10°C – 40°C

PUMPS



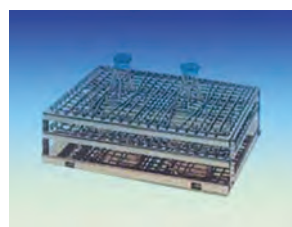
OTHER MODELS:

Vacuum Pumps
Gas High-Capacity Vacuum Pump
Free-air capacities: Up to 2.2 CFM
Max. Vacuum: Up to 28Hg

Aspirator Pumps
Free-Air Capacity: 0.6 CFM
Max. Vacuum: Up to 29.5Hg

Air Admiral Vacuum Pump
Free-Air Capacity: 0.31 CFM
Max. Vacuum: Up to 20Hg

SHAKING WATER BATH



OTHER SERIES:

Digital Precise Shaking Water Bath

WSB-18
Temperature Range: Ambient +5 - 100°C
Heating Power: 1.4Kw
Capacity: 18L

WSB-30
Temperature Range: Ambient +5 - 100°C
Heating Power: 1.8kW
Capacity: 30L

WSB-45
Temperature Range: Ambient +5 - 100°C
Heating Power: 2.4Kw
Capacity: 45L

HEATING MANTLE



OTHER MODELS:

CMUV Electromantles:

- For large volume flask and funnels

EMV and EMX Electromantles:

- V-shaped and spill-proof

EM Series Electromantles

Multi (Extraction) Mantles: 3 Recess Model

Multi (Extraction) Mantles: 6 Recess Model

MELTING POINT APPARATUS



OTHER SERIES:

– IA9000 Series

3 Models: IA9100, IA9200, IA9300

- 3 x 2 Melt memory capacity (IA9300 only)
- Batch memory of 500 Melts (IA9300) and 1000 Melts (IA9200)

– 1101D and 1102D Mel-Temp

3 Models: 1101D, 1102D, 1102DX6

- 4 x 1 Melt memory capacity
- 32-bit Processor

WATER PURIFICATION SYSTEM



OTHER MODELS:

- PURELAB FLEX 1
• with purification pack
- PURELAB FLEX 2
- PURELAB FLEX 3
- PURELAB FLEX 4

Delivery flow rate:
Up to 2 l/min

Bacterial endotoxin:
<0.001 EU/ml

– PURELAB SERIES

Water quality:

Type I / Type II pure water

Applications:

- Atomic Absorption Spectrophotometry
- Buffer and media preparation
- Electrophysiology
- Flame Atomic Absorption Spectrophotometry
- Feed to ultrapure water systems
- Glassware washing
- Histology
- Microbiological analysis



**DUCTLESS FILTERING FUME HOODS,
CHEMICAL STORAGE CABINET**

**Captair Filtair – Class II
(AFNOR NF X 15-211)**

Principle of filtration

All CAPTAIR Filtairs comply with the AFNOR NF X 15-211 standard (Class II).

They include 3 levels of filtration in a single multi-function filter (option filter VF):

- a prefilter, a phase transformer
- a particulate filter
- a molecular filter

With the multifunction filter, filter maintenance is simplified: as soon as the filter is changed, the prefilter and the particulate filter are automatically replaced, which ensures an optimum life to the molecular filter.



LAMINAR FLOW CABINET

**ESCO Airstream®
Horizontal / Vertical
Laminar Flow Cabinet**

ESCO Airstream Horizontal / Vertical Laminar Flow Cabinet offers proven protection for your samples and processes. With over thousands of units in use worldwide, this model offers a sensible balance of quality, performance features and cost-effectiveness. Like all ESCO cabinets this model features many key innovations for which ESCO is recognised: mini-pleat separatorless ULPA filter technology, the best product protection in the world, external rotor motors, superior filter mechanical construction.

The cabinet is ergonomically designed with transparent UV-resistant tempered glass sides and an easy-to-clean 304-grade stainless steel work top.

ESCO Airstream laminar flow cabinets are also equipped with UPLA filters (typical efficiency of 99.9998% at 0.3 microns) that offer a significantly higher efficiency than conventional HEPA filters (99.99% at 0.3 microns) used by most manufacturers.



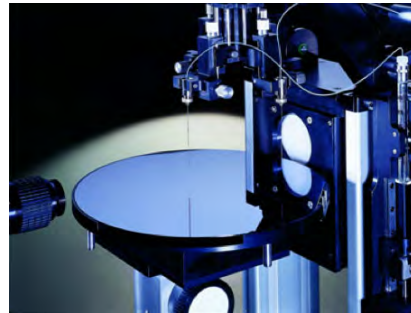
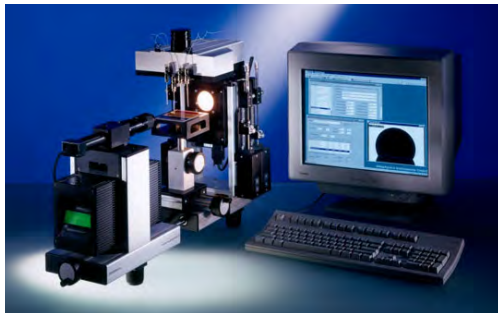
BSC II

ESCO's Class II Type A2 cabinets provide protection to (a) the operator and laboratory environment from particulates generated within the work zone; (b) the product and process within the work zone from airborne contamination from ambient air; (c) and the product and process within the work zone from cross contamination.



Sample preparation, milling and particle size analyzer

- Vibratory Sieve Shakers & Sieves
- Laser Particle Size & Shape Analyzer (0.01um - 2000um)
- Planetary Ball Mill (1100rpm-nano milling)
- Universal Cutting Mill
- Variable SPeed Rotor Mill
- Jaw Crusher
- Vibrating Cup Mill
- Disc Mill



Dataphysics contact angle and tensiometer

- Sessile Drop
- Pendant Drop
- Spinning Drop
- Du Nuoy Ring Drop
- Wilhelmy Plate Method
- Powder Wettability
- Interfacial Tension / Surface Tension



Pulverisette 25

Technical data

working principle	cutting
funnel opening	120 x 105 mm
max. feed size (depending on the material)	120 x 85 mm
min. sample quantity	100 - 150 ml
max. throughput (depending on the material and sieve size)	85 l/h
final fineness depending on sieve cassette	1 - 10 mm
feeding	batchwise/continuous
rotor speed	300 rpm (other speeds on request)
electrical details	400 V/3~, 50-60 Hz, 3340 watt (other voltages on request)
motor-shaft-power according to VDE 0530, EN 60034	2.2 kW
weight	net: 75 kg, gross: 105 kg
dimensions w x d x h	table mounting or on stand: 45 x 65 x 63 cm
packing details	wooden case: 80 x 70 x 90 cm



BACTERIAL COLONY COUNTER



Bacterial Colony Counter ColonyStar

Easy to clean plastic casing, adjustable in height with directly or indirectly illuminated area of 145mm diameter, glare-free, frosted glass and clear glass plate with cm^2 - and $1/9\text{-cm}^2$ graduation, electric counting and marking felt pen.

Petri dishes up to 145mm diameter can be used. Smaller petri dishes can be used together with the supplied reducing insert.

220V/50Hz, 25 x 23 x 7.5cm, 1.7kg ColonyStar inclusive all accessories (8501, 8503, 8504, 8505)



Key Features:

- Automatic contact pin
- Frosted glass and clear glass plate with cm^2 graduation

Specifications

Dimension: 250 mm x 230 mm x 75mm

Weight: 1.7 kg

Power: 220V/ 50 Hz



ICE MAKER

- Self-Contained Cuber With Built-In Storage Bin
- 55 lbs. of ice production per 24 hours
- 14 7/8" x 22 5/8" x 33 1/2"

Modular Ice Machine Slim-Line Series

Flaker: 980 lbs. of ice production per 24 hrs.

Dimensions: 22" x 27 3/8" x 26"



BENCHTOP CENTRIFUGES

Universal 320 / 320R (classic / cooled)



Performance

- High RCF
- 85 ml tubes up to 9,418
- 15 ml tubes up to 16,582
- Microlite tubes up to 21,382
- Extremely short run-up and run-down times

User-friendliness

- Automatic lid-locking
- Quick-entry foil keypad
- Easily exchangeable rotors
- 10 programme

MIKRO 200 / 200R (classic / cooled)



User-friendliness

- Automatic lid-locking
- Quick-entry foil keypad
- Easy-to-read, digital display
- Display of current parameter values
- Select key for parameter selection
- Impulse key for short centrifuging
- Open lid key
- RCF key
- Twist knob to enter values
- RPM in increments of 10
- Running time in minutes, max 99 min
- Temperature in increments of 1°C (MIKRO 200R)
- 4 programmable memories

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MIKRO 120 12-place x 1.5 / 2.0ml



User-friendliness

- Quick-entry foil keypad
- Easy-to-read, digital display
- Display of current parameter values
- Impulse key for short centrifuging
- Open lid key
- Easy entry of the parameters
- RPM in increments of 100
- Running time in minutes, max 99 min

Safety

- Lid locking and holding
- Imbalance switch-off
- Emergency lid-lock release
- Standstill indication
- Motor-overheating protection

General Specifications

	UNIVERSAL 320	UNIVERSAL 320R	MIKRO 200	MIKRO 200R	MIKRO 120
Max capacity	4 x 100 ml		24 x 1.5 / 2.0 ml		12 x 1.5 / 2.0 ml
Max RPM (speed)	15,000 / min		14,000 / min		14,000 / min
Max RCF	21,382		18,626		15,558
Running time	1 - 99 min : 59 sec, ∞ continuous run, impulse key (short cycle mode)		1 - 99 min, ∞ continuous run, impulse key (short cycle mode)		
REFRIGERATION					
Temperature control, infinitely variable	from -20 to +40°C		from -10 to +40°C		
Precooling time (Fast Cool)			in 10 - 15 min to +4°C		



Hindustan Platinum



PRODUCTS

- Precious metal salts and solutions, supported and unsupported catalysts, spinnerettes
- Platinum/Rhodium catalyst gauzes, alloy bushings, alloy stirrers and Thermocouple wires
- Platinum laboratory apparatus and Thermocouple wires
- Palladium alloy catchment gauzes
- Spinner baskets
- Thimbles, orifice rings, liners, etc
- Cluster spinnerettes
- Tantalum filters
- Stainless steel spinnerettes
- Throwaway tips
- Electrical contacts
- Gold sputter targets
- Recovery and refining of precious metals from industrial scrap

AUTOCLAVES



HV Series – The Advanced Autoclaves with Unique Features

- Electromechanical lock system
- Dual-sensing interlock mechanism
- Double-sensing system for air evacuation
- Programmable auto start
- Process status display
- Process mode for agar
- Available Sizes : 25,50,85,110 liters



HVE-50

50 liters economic autoclave based on unique features of HV series



HPM-16 – 6 liters Portable Autoclave

- Easy key operation
- Additional drying available
- Safety heat resistant resin body
- Easy maintenance and cleaning
- Worldwide multiple power source
- One touch safety door interlocking system



HA-240M IV

HVP-50

Features:

- Automatic lid open/close
- Separate steam generator
- Vacuum pump and drying
- Exhaust steam-free
- Microprocessor controlled sterilization system

Capacity Range: 25-153 Liters

pH METER



PH1100

PH1100

D-50 Series

Models: D-51, D-52, D-53, D-54, D-55
pH Measuring Range: 0 to 14pH

Benchtop Meters

Models: LAQUA PH1100, LAQUA PH1200, LAQUA PH1300
pH Range: 2 to 20pH

CONDUCTIVITY METER



D-50 Series Handheld Water Quality Meters

Measuring Method: Glass electrode method
Measuring pH: 0.00 to 14.00
Resolution: 0.01pH
Temperature: 0.0 to 100.0°C

LABORATORY & SAFETY EQUIPMENT

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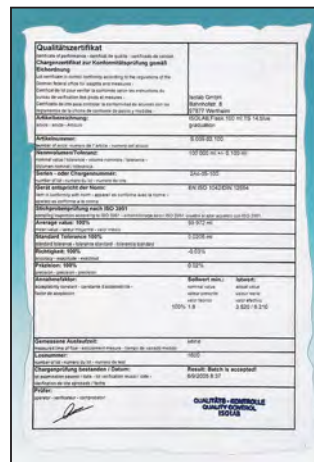


ALL VOLUMETRIC GLASSWARE COMES WITH BATCH / INDIVIDUAL CERTIFICATES

BATCH CERTIFICATION

How To Get Batch Certificate From ISOLAB Web Page

1. Enter our website address **www.isolabgmbh.de**
2. Select 'Search Certificate' on the menu and press ENTER
3. Select the catalogue number
4. Select the lot number of the glassware (written on the body)
5. Certificate page will be opened automatically
6. For print out, select 'Printer Version' on the left corner



ISOLAB always manufactures the volumetric glassware with **BATCH** Certificate and with **CONFORMITY** mark.

After each batch production, the required quantity is tested and certified according to **'Eichordnung'** for batch certification.

The **BATCH** numbers and codes are printed around the **CONFORMITY 'H' Mark**.

The Batch Certificate records the date of production and other parameters.

If the batch number of the product is known, the individual results on the date of production can be easily accessed at any time.

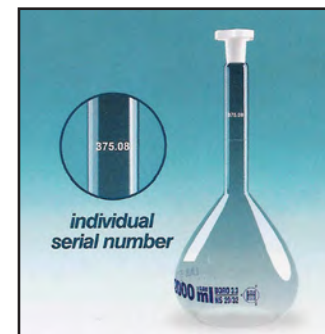
QUALITY CERTIFICATION

ISOLAB has met ISO 9001 quality standards and has received registration from **TUV Rheinland Group**.

ISOLAB is registered to **EN ISO 9001:2000**, the international Standards for Quality Systems-model for Quality Assurance in **'supplier for equipment'**.

ISOLAB continuously improves the process used to achieve the ISOLAB vision. Every year, an internal audit is held by the certificati on body, to ensure that the system carries on working.

ISOLAB was established in 1999. With the well-established position ISOLAB holds on international markets and its commitment to ensure a consistent top quality and service to the clients.



What is new at **ISOLAB** is a new quality system for the quality control laboratories. **ISOLAB** quality control is ready for **ISO/IEC 17025-2005** general requirements for the competence of testing and calibration laboratories. It means **ISOLAB** quality control laboratory is a competent laboratory for volumetric calibration and **ISOLAB** quality certificate is acceptable for the high quality laboratories in Europe and all over the world.

An individual - single **"QUALITY certificate"** is also issued for **ISOLAB** volumetric glassware. The certificate has the corresponding number, the date and all the relevant test results.

Individual serial number is printed on the body.

Each volumetric glass is individually tested (**every individual piece!**) according to the German Federal Weights and Measures (**Eichordnung**) rules and regulations.

GENERAL INFORMATION

how to use VOLUMETRIC FLASKS

Volumetric flasks are mainly used for the preparation of highly accurate standard solutions.

They are produced from boro 3.3 glass and according to **ISO 1042**.

They come with stoppers of high density polyethylene, resistant to temperatures up to +120 °C.

They are calibrated acc. to **"to contain"**.

First put the exact and precise weight of the substance into the flask.

Then fill the volumetric flask with water; (distilled water) about half of the volume and mix the content fully.

Then fill more distilled water just a bit below of the calibration ring mark.

Then adjust the temperature of the volumetric flask and the contents to 20 °C.

Then add some more water so that the meniscus will be exactly at the same level of the ring mark.

Pay attention to read the meniscus at the eye level and pay attention not to wet the neck wall above the ring mark level.

how to use BURETTES

Burettes are used for titration and are calibrated **"to deliver"**.

First rinse the burette very well with the solution you will use for titration. Then fill the burette a bit higher than the zero mark.

To activate the stopcock drain the solution but never below the capacity of zero mark.

Pay attention that there will be no air bubbles left inside the burette.

Fill more titration solution up to max 10 mm above the zero mark and pay attention not to wet the burette wall above the liquid level.

By reading the meniscus at your eye level drain the solution to the exact level of the zero. In this step you have to wipe the drops at the tip of the burette.

Then you have to open the stopcock very slowly and start the titration and also pay attention not to touch the tip to the wall of the container you use.

When the colour changes stop the titration process and wait for 30 seconds for the waiting time of Class **"AS"** burettes.

You have to read the discharged volume at your eye level.

Do not forget to wipe the remaining drops of the liquid at the burette tip since this is also a part of the titrated volume.

how to use CYLINDERS

Cylinders are mainly used for the exact measurement of liquids and they are calibrated **"to contain"**.

First fill the liquid so that meniscus level will reach the desired mark and pay attention to read the meniscus at your eye level.

Pay attention not to wet the wall of the cylinder above the mark.

how to use DENSITY BOTTLES

Density bottles are mainly used to determine the density of the liquids. They are calibrated **"to contain"**.

As a first step you have to weigh the empty and well dried density bottle precisely.

Then you have to fill the bottle up to 2/3 of the neck by avoiding bubbles.

Adjust the temperature of the bottle to 20 °C in a thermostatic bath.

Insert the stopper of the bottle very carefully and slowly.

Then the capillary tube of the stopper will discharge the displaced liquid.

Do not forget to dry carefully the body of the bottle and the stopper by wiping with a tissue.

how to use MIXING CYLINDERS

Mixing Cylinders are mainly used for the exact measurement of liquids and they are calibrated **"to contain"**.

First you have to add the liquid into the cylinder and measure the volume.

Then add the precise weight of the substance and dissolve the substance by shaking the mixing cylinder.

During drying process pay attention not to remove any liquid from the capillary tube.

The liquid inside the bottle should exactly be at the same level with the upper end of the capillary tube.

In the following step you have to weigh the filled density bottle.

The last step is the calculation of density from the weight and the volume of the liquid.

The volume is engraved on the body of the density bottle if it is a calibrated one.

Since all calibrated density bottles carry an identification number on the bottle and also on the stopper; pay attention to use the same numbers on each set.

We recommend using density bottles with calibration and thermometer with the liquids of elevated vapor pressure.

how to use PIPETTES

Pipettes are calibrated **"to deliver"**.

The first step is to fill the pipette; for filling process you always have to use a pipette filler or a pipette pump.

Fill the liquid max. 5 mm above the volume mark. Then you must wipe and dry the outer surface of the pipette.

Hold the pipette at your eye level and place the tip of the pipette to the wall of a vessel with a slight angle.

Then you have to discharge the excess volume until meniscus reaches the calibration mark of the pipette.

The second step is to empty the pipette.

You must empty the pipette by placing the tip of the pipette to the wall of the vessel with a slight angle.

Pay attention to empty the pipette completely.

When the level of the liquid reaches the tip of the pipette you have to wait for the waiting time (if the pipette is Class **"AS"**).

When the waiting time is over, wipe the pipette tip by pulling the tip upwards along the wall of the vessel.

If there is still any residual liquid left in the tip never blow out since it has already been assumed in calibration process.

how to clean the GLASSWARE

Firstly the major physical dirt is washed with brushes.

If the glass is used for the analysis of grease or oil, detergent or solvent can be used for cleaning the glass.

In case detergent or solvent is used for cleaning, glassware should be well cleaned by using de-ionized water.

After it is cleaned with de-ionized water the glass is dried.

Volumetric glassware is dried up to 150°C (according to **TS ISO 4787** Laboratory glassware-Volumetric glassware methods for use and testing of capacity).

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ISOLAB PRODUCT INDEX

ADAPTORS

- expansion
- reduction

Allihn condenser

Amies medium swab

Automatic burettes - glass

BEAKERS

- glass - low form
- glass - high form
- polypropylene
- tong
- with handle

Boals - weighing

BLOOD COUNTING CHAMBERS

- cover glass
- nageotte
- Neubauer
- Thoma

BOSS HEAD

- standard
- swivel

BOTTLES

- angle shoulder - P.E.
- brush
- cylindrical - P.E.
- density
- dropping - flat head - glass
- dropping - tip head - P.E.
- rectangular - P.E.
- screw cap - glass
- side arm - glass
- wash bottles - P.E.
- weighing

BRUSHES

- cytology
- bottle
- burette
- test tube

BUNSEN BURNERS

- high flame
- standard flame

Buchner funnels

Burette bellow

Burette bottles

Burette clamps

Burette stopcocks

BURETTE

- automatic - economical
- automatic - pellet
- bellow
- bottle
- brush
- clamps
- digital
- schilling
- stopcocks
- straight - clear
- straight - amber

Carry - blair medium swab

CASETTES

- embedding - Standard
- embedding - histology
- embedding - biopsy
- lid

CENTRIFUGE

- tubes - glass
- tubes - polypropylene
- tubes - microcentrifuge

Cell scraper

CERAMIC

- plate
- triangle

Coiled condenser

CLAMPS

- 4 jaw
- 4 jaw - swivel
- 3 jaw - small
- 3 jaw - large - swivel
- 3 jaw - large
- 3 jaw - large - swivel
- burette
- thermometer
- tubing
- tube

CONDENSERS

- allihn
- coiled
- dimroth
- liebig
- soxhlet

Cones

CONTAINERS

- faeces
- specimen
- urine

Crucibles - porcelain

Crucible tong

CYLINDERS

- tall form - glass
 - tall form - P.P.
 - low form - glass
 - mixing - tall form
- ### DENSITY BOTTLES
- uncalibrated
 - calibrated
 - calibrated - thermometer
- ### DESICCATORS
- non vacuum - glass
 - vacuum - glass
 - non vacuum - P.P.
 - vacuum - P.P.

Digital burette

Dimroth condenser

Dishes - evaporating

Dish tong

DISPENSER

- hand
- opifix
- profix
- parafilm
- slide

Disposable pipettes

Draining rack

DROPPING BOTTLES

- flat head - glass
- tip head - P.P.

DROPPING FUNNELS

- conical
- cylindrical
- cylindrical - relief tube

EAR

- plug
- muff

Electronic pipette pump

Electronic micropipette

EMBEDDING

- cassette - Standard
- cassette - histology
- cassette - biopsy
- lids

Erithrocytes pipette

ERLENMEYERS

- narrow neck - glass
- wide neck - glass
- NS neck
- screw cap - glass
- screw cap - P.E.

Evaporating dishes

Face screen

Faeces container

FILTER

- crucible - sintered
- flask - with glass nozzle
- flask with P.P. nozzle
- funnel - sintered
- paper - quantitative
- paper - general
- vacuum system

Fix volume micropipette

FLASKS

- filter
- flat bottom - glass
- NS neck
- round bottom - glass

Stand

Tong

Flow Indicator

FORCEPS

- blunt
- cover glass
- filter paper
- sharp

FUNNELS

- buchner - porcelain
- buchner - polypropylene
- dropping - conical
- dropping - cylindrical
- dropping - relief tube
- fast filtration - glass
- fast filtration - P.P.
- general purpose - glass
- general purpose - P.P.
- holder - steel
- holder - polypropylene
- separating - squibb
- separating - conical
- separating cylindrical
- with sintered disc
- vacuum filtration

GLOVES

- cotton
- cut resistant
- heat resistant
- latex coated
- leather work
- nitrile
- protective
- safety
- vinyl

Graduated cylinders

Graduated pipettes

HAEMOTOCRIT

- tubes - heparinised
- tubes - non heparinised
- tube wax

Haemocytometer cover glass

Hand dispenser

Hand dispenser tips

Hexagonal stoppers

Holders for funnels

INDICATOR PAPER

- aquadur
- litmus
- pH stick
- pehanon
- peroxide

Immunology microplates

INOCULATION

- loops - plastic
- loops - steel
- loop handle

K3EDTA tube

Laboratory jack

Laboratory tripod

Lancets - blood

Leucocytes pipette

Liebig condenser

LITHMUS PAPER

- blue
- red

Masks

Micropipette tips

MICROPIPETTE

- electronic
- liquid reservoir
- multichannel - variable volume
- single channel - variable
- single channel - fix volume
- stands
- tips - Standard
- tips - filter
- tip rack

MICROSCOPE

- coverslides
- slides

MICROPLATES

- deep-well
- immunology
- PCR

Mixing cylinders

Mortars - porcelain

Multichannel micropipette

Nageotte counting chamber

Non-return valve

Neubauer counting chamber

Opifix dispenser

PARAFILM

- parafilm
- parafilm dispenser

PASTEUR

- pipettes - glass
- pipettes - plastic
- pipette bulb

PCR

- box
- microplates - 96 well
- microplates - deep well
- rack
- strips
- tubes

PETRI

- dishes - glass
- dishes - polystyrene
- dishes - rodac
- stand

PIPETTE

- bulbs - pasteur
- disposable - P.P.
- erythrocyte - glass
- filler - macro
- filler - micro
- graduated - glass
- leucocytes - glass
- pasteur - polypropylene
- pasteur - glass
- pl-pumps
- pump - electrical
- sahl - glass

PIPETTE

- stand - vertical
 - stand - horizontal
 - tray
 - volumetric - glass
 - westergreen - glass
- ### Pehanon test paper
- ### Peroxide test paper
- ### Pipette fillers
- ### Pipette fillers - micro
- ### Pipette pump
- ### Pipette stands
- ### Pipette trays
- ### pH measurement
- pH - stick
 - pehanon
 - pH tester

Polyfix dispenser

RACKS

- draining
- micropipette tips
- microcentrifuge tubes
- PCR tubes
- sedi rate tubes
- test tubes

Respirators

Respirator cartridges

Rubber tubings

SAFETY

- goggles
- wash bottle

Sahl pipettes

SCISSORS

- general use
- dissecting

Schilling burettes

Scoops

Scraper for cells

Sedi - rate sedimentation tube

Sedi - rate rack

SEPARATING FUNNELS

- conical
- cylindrical
- squibb

Side arm bottles

Silicone tubings

SLIDE

- boxes
- dispenser
- magazine
- mellers
- microscope
- tray

SOCKETS

- clips
- glass
- PTFE

SOXHLET

- condenser - allihn
- condenser - dimroth
- extractor
- thimbles

SPATULAS

- chaffaway
- flat - spoon
- flat - round grooved
- micro
- poly
- spoon - conical grooved

Specimen container

Spreader

STAINING JARS

- hellendahl - glass
- hellendahl - TPX
- schifferdecker - glass
- schifferdecker - TPX
- stainless steel rack

STANDS

- micropipette
- petri dish
- pipette - vertical
- pipette - horizontal
- polypropylene base
- retort base
- sheet base
- tripod base

Stirring rods

STOPCOCKS

- PTFE - straight
- PTFE - needle valve

STOPWATCHES

- digital
- mechanical

STOPPERS

- hexagonal - glass
- rubber
- silicone
- test tube

Straight burettes

Stuart medium swab

SWABS

- without medium
- with stuart medium
- with amies medium
- with cary blair medium

TEST PAPERS

- pH stick
- pehanon
- peroxide
- aquadur
- litmus

TEST TUBE

- brush
- clamps
- racks
- stoppers

THERMOMETERS

- clamp&holder
- enclosed scale
- electronic
- indoor - outdoor
- insertion
- maximum - minimum
- solid stem
- thermohyrometer

Thoma counting chamber

TIMERS

- Electronic
- Mechanical

TIPS

- Hand dispenser
- Micropipette

TONGS

- beaker
- crucible
- dish
- flask

TRAYS

- pipette
- slide

Tripod

TUBES

- centrifuge - glass
- centrifuge - plastic
- microcentrifuge
- K3EDTA
- PCR
- screw cap - glass
- SEDI-RATE
- test tubes - glass
- test tubes - plastic

TUBING

- clamp
- rubber
- silicone

Urine container

Variable volume micropipette

VOLUMETRIC FLASK

- glass - clear
- glass - amber
- polypropylene

Volumetric pipettes

WASH BOTTLES

- eye
- integral
- standard

Watch glass

Water jet pump

WEIGHING

- boats
- bottles
- scoops

Westergreen pipettes

OVERHEAD STIRRER



R20D

OTHER MODELS:

RW 28

Max. Viscosity: 5000 mPa.s
Speed Range: Up to 1400RPM

MINISTAR 30

Max. Viscosity: 2000 mPa.s
Speed Range: Up to 500RPM

EUROSTAR 400

Max. Viscosity: 100000 mPa.s
Speed Range: Up to 400RPM

HOMOGENIZER



HPH 2000/4-SH5

Capacity: Up to 100 L/h
Homogenizing Pressure Max:
Up to 2000 bar
Minimum Feeding Volume:
Up to 100ml

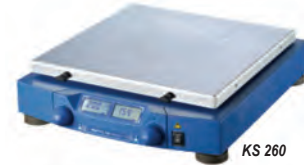
DISPERSER



S 25 KV - 25 F

Max. Working Temperature: 220°C
Stator diameter: 25mm
Shaft length: 270mm
Rotor diameter: 18mm

SHAKER



KS 260

KS 260 control NOL
Speed Range: Up to 500RPM

INCUBATOR SHAKER



KS 4000 i

Inner Volume: 90L
Max. Speed: Up to 500RPM

VORTEX MIXER



Vortex 3

Max. Speed: Up to 2500RPM

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LABORATORY TECHNOLOGY

- | | |
|--|--|
| <p>1 Mixing
Magnetic stirrers
Overhead stirrers
Shakers
Laboratory kneader</p> | <p>9 Electrolysis
Electrolysis system</p> |
| <p>2 Crushing
Dispersers
Mills</p> | <p>10 Laboratory reactors
Systems up to 2 liters</p> |
| <p>3 Heating / Tempering
Heating baths
Heating plates
Termostats</p> | <p>11 Rheology
Torque measurement instruments
Measuring kneader</p> |
| <p>4 Liquid Handling
Fixed volume pipettes</p> | <p>12 Software
Laboratory software for control
and data collection</p> |
| <p>5 Distilling
Rotary evaporators</p> | <p>13 Analytical line
Calorimeters
Decomposition system</p> |
| <p>6 Extracting
Solid-liquid extractors for
FBE and Soxhlet</p> | <p>14 General
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Questionnaire
Index: Quick search
Conditions of sale and delivery
Information
Hands for children
Notes</p> |
| <p>7 Mechanical accessories
Stands
Fixing elements</p> | |
| <p>8 Electronic accessories
Temperature measuring instrument
Revolution counter
Vacuum controller
Vacuum pumps / valves</p> | |



REFRIGERATED HEATING CIRCULATORS

OTHER SERIES:

Refrigerated - Heating Circulators
Temperature: -40 – 150°C
Pump Pressure: Up to 0.35bar

Ultra-Low Refrigerated-Heating Circulators
Temperature: -51– 200°C
Pump Pressure: 0.4 - 0.7bar

Cryo-Compact Circulators
Temperature: -40 – 200°C
Pump Pressure: 0.4 - 0.7bar



CORIO CD-200F

SHAKING / WATER BATH



SW 22

Temperature Range: 20 - 99.9°C
Bath Volume: 2 - 26L
Bath Opening: 50 x 30 / 18
Temperature stability: ±0.2°C

GENERAL INFORMATION



TW12

Temperature Range:
20 - 99.9°C
Volume: 12L, +/-0.2



TW8

Temperature Range:
20 - 99.9°C
Volume: 8L, +/-0.2



SW22 Shaking
Water Bath

Temperature Range:
20 - 99.9°C
Volume: 8-20L, +/-0.2



ED Immersion
Circulator

Temperature Range:
20 - 100°C



F25-ED

**Refrigerated/
Heating Circulator**

Temperature Range:
20 - 100°C
Volume: 4.5 L



VIVO RT2

Very easy to use. Set and go.
+ Cooling and heating
+ PID temperature control
+ Strong 1.5 kW heater for fast heat-up
+ 150 W of cooling power at +20 °C
+ External pump connections are standard
+ Over temperature cut-off
+ Drain for easy emptying in the front
+ Small footprint

GLASSWARE WASHERS



- **Viewing window with interior light**

Models with built-in viewing window and interior light are available as standard options. The clear tempered safety glass window allows observation of the cycle in progress. A 25-watt interior light illuminates the tank while the door latch is engaged.

- **Sanitizing high heat**

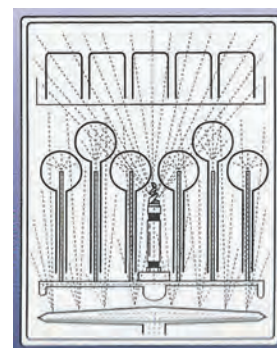
Higher temperature loosens stubborn lipid-based residues for cleaner, sanitized glassware. Models for operation on 230 volts, 50/60 Hz include a high heat option. A 2000-watt heater and thermostat allow interior temperatures to reach nominal 180°F (82°C) with a minimum inlet temperature of 120°F (49°C) during the second wash and rinse cycle. High heat is automatically activated when GLASS PLUS, SCIENCE or USER 2 SET is selected.



Viewing window and interior light

All models feature:

- Type 304, mirror-finish stainless steel tank, wash arm and tower
- Type 304, brushed stainless steel door
- Two rows of polypropylene rollers in tank for accessory upper rack
- Fiberglass blanket and aluminium-backed acoustic material for thermal and sound insulation
- Operation at 62 dB
- Draw latch to energize electronic controls when locked
- Made in the USA
- Injection molded control panel with microprocessor that stores seven preset programmes
- Manual detergent dispenser for powder or liquid detergent. Detergent samples included
- Manual rinse solution dispenser. Rinse sample included
- Pump with 1/3 hp motor to recirculate up to 60 gallons (227 litres) of water per minute (at 60Hz) throughout the tank during wash cycle
- One-piece, stainless steel, fine mesh particle filter
- Purified water pump to bring pressurised or non-pressurised purified water into the tank for the last two rinses



Spray Pattern

K
L
M
N
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FREEZE DRYER



7382030



7750020

OTHER SERIES:

- FreeZone Benchtop Freeze Dryers
- FreeZone Triad Freeze

- Cools to -85°C to freeze dry low eutectic point samples

- Dry Ice Benchtop Freeze Dryers
-75°C, -103°F

Capacity: Up to 18L

Ice Holding Capacity: Up to 2.5L



pH METER & CONDUCTIVITY METER



OTHER SERIES:

Portable pH Meter Pro2Go
 pH Measuring Range: -2 to 20pH
 pH Resolution: 0.001 / 0.01 / 0.1 / 1

SevenCompact pH Meter
 pH Measuring Range: -2 to 20pH
 pH Resolution: 0.001 / 0.01 / 0.1

Five Easy Standard Kit
 pH Measuring Range: 0 - 14pH
 pH-resolution: 0.01



	FE20	FE30	FG2	FG3
Measuring Range	0.00... 14.00 pH	0.1 µS/cm... 199.9 mS/cm	0.00... 14.00 pH	0.1 µS/cm... 199.9 mS/cm
	-1999... 1999 mV	0.1 mg/l... 199.9 g/l (TDS)	-1999... 1999 mV	0.1 mg/l... 199.9 g/l (TDS)
	0 °C... 100 °C (32 °F... 212 °F)	0.00... 19.9 psu (salinity)	0 °C... 100 °C (32 °F... 212 °F)	0.00... 19.9 psu (salinity)
Resolution	0.01 pH	Automatic range	0.01 pH	Automatic range
	1 mV	0.00... 19.9 psu	1 mV	0.00... 19.9 psu
	0.1 °C	0.1 °C	0.1 °C	0.1 °C

WEIGHING BALANCES

Mettler Toledo offers a broad portfolio of high performance laboratory instruments for applications such as:

- Weighing • Titration • pH Measurement • Thermal Analysis • Density & Refractive Index • Pipetting
- Software & Services • Automated Chemistry

JP Series

- Fully automatic internal adjustment (FACT)
- High contrast HCD display
- Two RS232 interfaces for simultaneous connection of an auxillary display and printer or PC
- Built-in density determination software



Readability	Model	Capacity	Repeatability	Adj.	Pan (mm)	Dimensions (LxWxH mm)
0.01 mg	JP105DUG	42 g / 120 g	0.01 mg / 0.1 mg	FACT	Ø 80	358 x 247 x 331
0.1 mg	JP1603C	320 g	0.1 mg	FACT	Ø 90	290 x 193 x 266
0.001 g	JP303G	320 g	0.001 g	FACT	Ø 120	290 x 193 x 266
0.01 g	JP4002G	4200 g	0.01 g	FACT	170 x 190	290 x 184 x 84

JS Series

- Manual one-key press adjustment
- Legible backlit display
- RS232 interface



Readability	Model	Capacity	Repeatability	Adj.	Pan (mm)	Dimensions (LxWxH mm)
0.1 mg	JS1203C	240 g	0.1 mg	Internal	Ø 90	290 x 193 x 266
0.001 mg	JS303G	320 g	0.001 g	Internal	Ø 120	290 x 193 x 266
0.01 g	JS4002G	4200 g	0.01 g	Internal	170 x 190	290 x 184 x 84
	JS6002G	6200 g	0.01 g	Internal	170 x 190	290 x 184 x 84
0.1 g	JS8001G	8200 g	0.1 g	Internal	170 x 190	290 x 184 x 84

MOISTURE ANALYSER



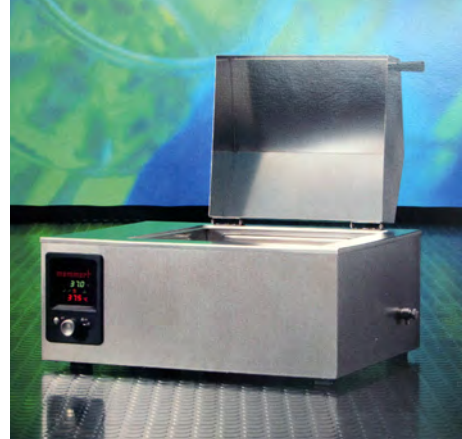
HB 43 Moisture Analyzer

HB43	
Measurement values	
Readability	0.01%
Repeatability (sd) with 2 g sample	0.15%
Repeatability (sd) with 10 g sample	0.03%
Evaluation	
Moisture content in %	•
Dry content in %	•
Dry content in g	•
Calculation based on dry weight	•
Statistics function	-
Journal function	-
Balance	
Max. sample weight	41 g
Min. sample weight	0.5 g
Readability	1 mg
Drying unit	
Technology	Halogen
Temperature range	50–200 °C
Adjustment increments	5 °C
Temperature programs	2

INCUBATORS & OVENS / HUMIDITY CHAMBERS

Products available:

- **Ovens** • Universal Ovens
- Incubators • Hot Air Sterilisers
- **Vacuum ovens** • **Cooled Incubators**
- Peltier-cooled Incubators
- Compressor-cooled incubators
- **CO₂ Incubators** • **Humidity Chambers** • **Water and Oil Baths**



OVEN SERIES (+30 to 300°C) SINGLE DISPLAY

With Fan	Without Fan	Capacity (L)
UF 30	UN 30	32
UF 55	UN 55	53
UF 75	UN 75	74
UF 110	UN 110	108
UF 160	UN 160	153
UF 260	UN 260	256
UF 450	UN 450	449 (3-phase isolator required)
UF 750	UN 750	749 (3-phase isolator required)
UF 1060	-	1060 (3-phase isolator required)

INCUBATOR SERIES (+30 to 80°C) SINGLE DISPLAY

With Fan	Without Fan	Capacity (L)
IF 30	IN 30	32
IF 55	IN 55	53
IF 75	IN 75	74
IF 110	IN 110	108
IF 160	IN 160	153
IF 260	IN 260	256
IF 450	IN 450	449
IF 750	IN 750	749

REFRIGERATED BATH CIRCULATORS, DRYERS, ORBITAL SHAKERS, FREEZERS

Refrigerated Bath Circulators
(-20°C to 100°C; 7, 16, 33 & 50L)



General Features

- Five models
- Circulating bath with built-in refrigeration
- Temperature range -20°C to 100°C
- 7 to 50 litres capacities
- For open or closed applications
- High capacity with wide lid opening (up to 345mm x 320mm) for sample incubation

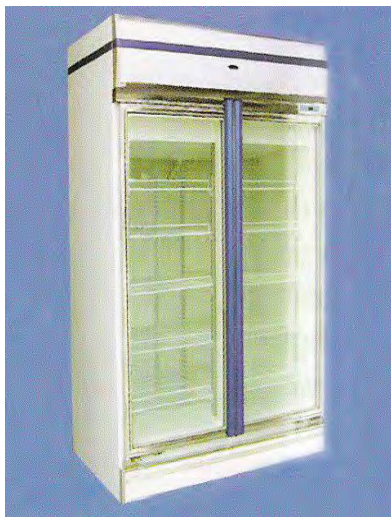
Benchtop Laboratory Dryer Model BS-100



Orbital Shaker Model 719



Laboratory Glass Door Freezer (-5°C to -20°C Single and Twin-door, 500L & 1000L)



Specifications

Temp. working range	2°C to 8°C (preset at 4°C)
Controller	Digital microprocessor controller with defog, lock and off-set functions
Temp. setting & display	PTC
Air circulation	Aided by circulation fan
Safety devices	Built-in overload protection for compressor, ELCB
Refrigerator	Hermetic seal type
Cooling capacity at 5°C Btu/hr	4190
Refrigerant	134a CFC FREE
Capacity	1050 litres
Epoxy coated shelves	10 pcs
Indicating lamp	included
Chamber construction	Inner wass and outer case is of mild steel with powder paint finish
Chamber dimensions (mm)	1155W x 695D x 1430H
Overall dimensions (mm)	1260W x 825D x 2070H
Power source	240 VAC, 50 Hz, 4.8 A
Weight	200kg

PRODUCT INDEX

- Boiling Bath
- Large Capacity 6KW Thermostatic Bath
- Circulating Water Baths
- Circulating Water Baths With Safety Features
- Thermoregulators 800 Series
- Digital Heating Circulators and Oil Bath
- Refrigerated Bath Circulators
- DX Series Cool Circulators
- Viscometer Bath
- Cool Water Recirculators
- Magnetic Stirrer / Hot Plate / Hotplate Stirrer
- Bigtop Hotplate
- Block Digestors
- Natural / Gravity Convection Oven
- Forced-air Convection Oven
- Laboratory Dryers
- Incubators
- Cooled Incubators
- Glass Door Low Temperature (B.O.D) Incubator
- Glass Door Chillers / Refrigerators Designed For General Storage Application
- Glass Door Laboratory Refrigerators Designed For Storage of Heat-Sensitive Products
- Hi-Low Scientific Refrigerators
- Growth Chamber
- Chromatography Chamber
- Ambient Incubator Shakers
- Orbital Shakers
- Shaker Bath
- Reciprocating Shaker
- Laboratory Glass Door Freezers
- Chest Freezer
- Handy Cooler
- Chemstore Flammable Liquid Storage Cabinets
- Chemstore Ducted Chemical Storage Cabinets
- Acid and Corrosive Liquids Storage Cabinet

BALANCE



AP135W



TW223L

OTHER SERIES:

AP Series

Fast weighing response

TX Series

Windows Direct Communication Function

ATX/ATY Series

Touch-Key calibration

UW/UX Series

Fully-automatic calibrations

Capacity range: 82g - 4200g

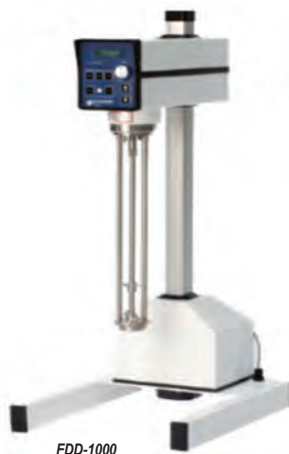


HOMOGENIZER

Silverson Machines has a worldwide customer base spanning many markets including many of the worlds largest companies. Silverson is an innovator in high shear mixing technology and as a forward thinking company has the knowledge to solve your mixing needs of today as well as those of tomorrow.

OTHER SERIES:

- L5M-A laboratory Mixer
- AX Pilot Scale
- BX,DX, GX series (Batch Mixer)
- Verso In Line Mixer
- High Capacity In-line Mixer



FDD-1000



FDD-1000



FDD-1000



General Duty In-line Mixer



FURNACE

MUFFLE FURNACES (WITH CONTROLLER)

	Type	Working Temperature Range		Chamber Volume cu. in. (l)
		°F	°C	
Thermolyne Quality - Low Price	FB 1300	212 - 2012	100 - 1100	76 (1.3)
	FB 1400	212 - 2012	100 - 1100	129 (2.1)
Rugged Construction, Smaller Chamber	FD 1500	212 - 2192	100 - 1200	136 (2.2)
Perfect for General Laboratory Use	F 47900	212 - 2192	100 - 1200	120 (2)
	F 48000	212 - 2192	100 - 1200	350 (5.8)
Ideal for Drying and Heat Treating Applications	F 62700	212 - 1832	100 - 1000	864 (15)
Robust Design for Industrial Applications	F 6000	212 - 2192	100 - 1200	864 (15)
Two Shelves for Maximum Space	F 30400	212 - 1999	100 - 1093	1.6 cu. ft. (45)
High Temps? No Problem!	F 46100	1472 - 3092	800 - 1700	234 (3.5)
	F 46200	1472 - 3092	800 - 1700	1002 (16.4)

ATMOSPHERE CONTROLLED ASHING FURNACE (WITHOUT CONTROLLER)

Includes Gas Flowmeter and Manifold	F 6000 - 60	212 - 1787	100 - 975	864 (15)
	FB 30400 - 60	212 - 1787	100 - 975	1.6 cu. ft. (45)

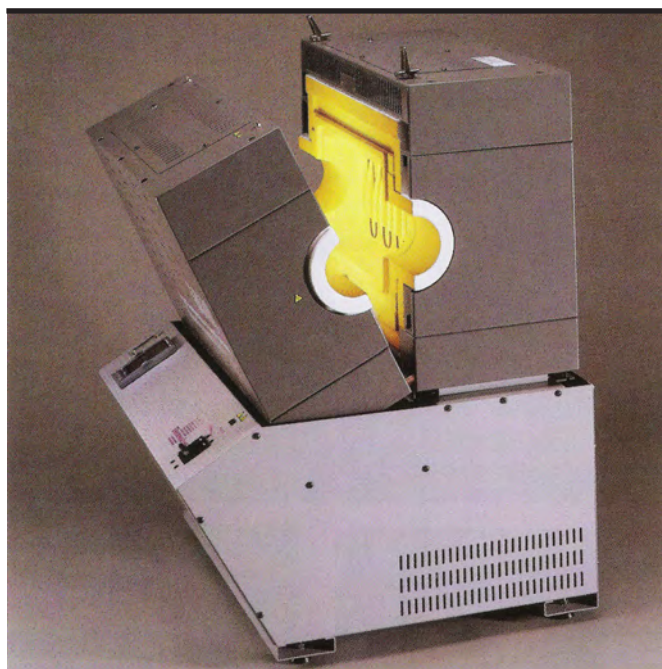
HEAVY DUTY MUFFLE FURNACES (WITHOUT CONTROLLER)

Our Largest Chamber	F 31700	300 - 2000	150 - 1093	9 cu.ft. (254.4)
Firebrick and Steel for Demanding Applications	F 1600	302 - 1999	150 - 1093	346 (5.7)
	F 1600 (-1)	302 - 2150	150 - 1177	
	F 1730	302 - 1999	150 - 1093	1088 (17.9)
	F 1730 (-1)	302 - 2150	150 - 1177	
	F 1740	302 - 1999	150 - 1093	1451 (23.7)
	F 1740 (-1)	302 - 2150	150 - 1177	
	F 1800	302 - 1999	150 - 1093	1.5 cu.ft. (41.4)
F 1800 (-1)	302 - 2480	150 - 1360		

HEAVY DUTY MUFFLE FURNACES (WITHOUT CONTROLLER)

	Type	Working Temperature Range		Zone Length Inches (cm)	Number of Zones	Chamber Position H=Horizontal V=Vertical A=Angular
		°F	°C			
High Temperature and It Tilts	F 54500	1472 - 2732	800 - 1500	20 (50.8)	1	1
	F 59300	1472 - 3092	800 - 1700	20 (50.8)	1	1
Split Tube for Easy Access	F 79300	212 - 2192	100 - 1200	12 (30.5)	1	1
	F 79400	212 - 2192	100 - 1200	24 (61)	1	1
Solid Tube, Solid Valve	F 21100	212 - 2192	100 - 1200	12 (30.5)	1	1

S
T
V
W
Z



Type F 54500



Type F 21100



Type F 30400

**LOW TEMPERATURE FREEZER /
ULTRA LOW TEMPERATURE FREEZER**



Freeze-1050



Freeze-1050



Freeze-1050

OTHER SERIES:

- Jewett™ High-Performance Lab Freezers
- GPS Series Lab Freezers
- Value Lab Upright Freezers
- Forma™ -20°C Enzyme Freezer
- TLE Series Ultra-Low Freezers
- TSC Series -86°C Ultra-Low Temperature Upright and Chest Freezers

Temperature Range:
Max. -86°C

Capacity Range:
Up to 960L

MICROPLATE READER

OTHER SERIES:

- Varioskan LUX Multimode
Wavelength range: 200 - 1,000nm
Plate types: 6- and 384-well plates
- Multiskan GO microplate
Wavelength Range: 200 - 1,000nm
Plates Type: 96- and 384-well plates
- Multiskan FC microplate photometer
Wavelength Range: 340 - 850nm
Plate Type: 96-well plates



51119000



51119200

HOT PLATE



SP88854100

OTHER SERIES:

- Cimarec+™ Hotplate Series
- Cimarec Digital Stirring Hot Plate
- SuperNuova+™ Hotplate Series

Heating Surface Area: 10 x 10 in / 7 x 7 in / 4 x 4 in

Aluminum / Ceramic Top Plate

Max. Temperature: Up to 400°C

REFRIGERATOR



MR45SS-GAEE-TS



REB2304D

OTHER SERIES:

- Laboratory Refrigerators
Capacity: Up to 1275 L
Temperature: 1- 12 °C
- Blood Bank Refrigerators
Capacity: Up to 659 L
Temperature: 1- 8 °C
- Chromatography Refrigerators
Capacity: Up to 2231 L
Temperature: 1- 8 °C
- Explosion-Proof Refrigerators
Capacity: Up to 155.7 L
Temperature: 1- 12 °C

SHAKING WATER BATH



SP131630

OTHER SERIES:

- Precision™ Shaking Water Baths
TSDUB15
Temperature Range: Amb. +5 - 100°C
Bath Volume: 15L
- TSSWB15
Temperature Range: Amb. +5 - 100°C
Bath Volume: 15L
- TSSWB27
Temperature Range: Amb. +5 - 100°C
Bath Volume: 27L
- TSSWB15S
Temperature Range: Amb. +5 - 100°C
Bath Volume: 15L



UV-VIS SPECTROPHOTOMETER



840-300000



840-208200



840-308000

OTHER SERIES:

GENESYS™ 140/150 Vis/UV-Vis Spectrophotometers
Spectral Bandwidth: 2nm
Wavelength Range: 190 - 1100nm

GENESYS™ 30 Visible Spectrophotometer
Spectral Bandwidth: 5nm
Wavelength Range: 325 - 1100nm

GENESYS™ 40/50 Vis/UV-Vis Spectrophotometers
Spectral Bandwidth: 2nm
Wavelength Range: 190 - 1100nm

SHAKER & MIXER



88880018



M16710-33Q



M65820-33

OTHER SERIES:

- Microplate
Speed Range:
Up to 1500 RPM (Single plate)
Display: Scale

- MaxiMix™ I Vortex Mixer
Display: Scale

- MaxiMix™ III Vortex Mixer
Display: No

- LP Vortex Mixer
Display: Scale

AUTOCLAVE



SX-500



SX-700

OTHER SERIES:

SX Series

- Speedy Autoclaves

ES-215/315

- High Pressure Steam Sterilizer
- Automatic Air Release Time

SDL-320

- Speedy with drier

SR-240

- Retort Food Autoclaves
- Adopts pressurized steam sterilization and pressurized cooling systems

Capacity Range: 36-79Liters



CENTRIFUGE

OTHER SERIES:

- Table-Top Centrifuge
- Super Speed Vacuum Centrifuge
- Ultra Speed Refrigerated Centrifuge
- Micro High Speed Centrifuge
- Large Capacity Centrifuge

RPM Range: Up to 18,000RPM

Capacity Range: Up to 6L

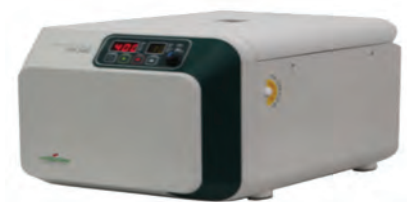
VS24MTi



VS-100B-M



VS-180CFi



VS-360



FREEZER



VS-87D



VS-90DF-692U

OTHER SERIES:

- Deep Freezer (Chest)
- Deep Freezer (Upright)
- Small Freezer (142L / 195L)
- Lab Freezer
- Ultra Low Temperature Freezer
- Blood Freezer

Temperature Range:

Max. -150°C

Capacity Range:

Up to 503L



HUMIDITY GROWTH CHAMBER



VS-3DM



VS-3DMC

OTHER SERIES:

- Growth Chamber
- CO₂ Growth Chamber
- Thermal Shocking Test Chamber

Capacity: Up to 1300L

Humidity Range: 35 to 98% RH



HIGH PRESSURE CELL CRUSHER



ACCESORIES



Type: Hydraulic Motor drive
Max. Pressure: 1,655 bar
Operation: Down & Up handle
Motor: 1.5Kw
Dimension: 490 X 820 X 1,650mm
Weight: 260kg
Power: 380V, 1.5kW, 3 Phase

REFRIGERATOR



- **Cold Lab Chamber**
Capacity: Up to 1125L
Temp. Range: 0 - 10°C
- **Pharmaceutical Refrigerator**
Capacity: Up to 1125L
Temp. Range: 0 - 40°C
- **Medicine Refrigerator**
Capacity: Up to 1125L
Temp. Range: 0 - 10°C
- **Blood Bank Refrigerator**
Capacity: Up to 1125L
Temp. Range: 0 - 10°C



LABORATORY BLENDER



Laboratory Blender 7010S / 7010G / 7010HS / 7010HG

Capacity	1 liter / 1.2 liters
Switch Settings	Two-speed, 60 second mechanical timer
Base	Epoxy coated motor housing
Container	Stainless steel with handle and two-piece vinyl and styrene lid 7010S. Heat resistant glass with handle and two-piece vinyl and styrene lid 7010G.
Overall Height	15 / 16 inches
Weight	11 / 13 lbs

- UL Listed
- Available in 240 volt

SEPARATIONS PRODUCTS



Whatman is the world's leading developer of high-end laboratory separations products. We offer our customers a more comprehensive portfolio. Protein analysis, arrays of cancer research and other bioscience products sit alongside more tradition offerings, such as filter papers and filtration devices.

Whatman innovation and solutions for life sciences, worldwide, enable scientists, engineers and medical staff to carry out their work easily. Whether it's for the analysis of target drug compounds in pharmaceuticals; the purification, isolation and identification of substances in food and beverage products; or the preparation of non-cellular samples for environmental applications, from sector to sector, country to country, Whatman has become the watchword for quality, reliability, trust and innovation.

Cellulose Filters / Qualitative Filters

These filters are used in qualitative analytical techniques to determine and identify materials. Folded qualitative filters are also available which give improved flow rate and increased loading capacity compared to equivalent flat filters.

Quantitative Filters

Whatman quantitative filters are designed for gravimetric analysis and the preparation of samples for instrument analysis. They are available in three formats:

Ashless - 0.01% ash maximum for routine quantitative techniques

Hardened low ash - 0.025% ash maximum with very high wet strength

Hardened ashless - 0.008% ash maximum and very high wet strength



Extraction Thimbles

Applications

- Smoke stack gas monitoring
- Soxhlet extraction
- Analysing pesticide residues

Features and Benefits

- Available in a range of sizes and wall thickness to suit your application
- Designed to fit most commercially available Soxhlet extractors

THERMOMETER



L019/10

OTHER SERIES:

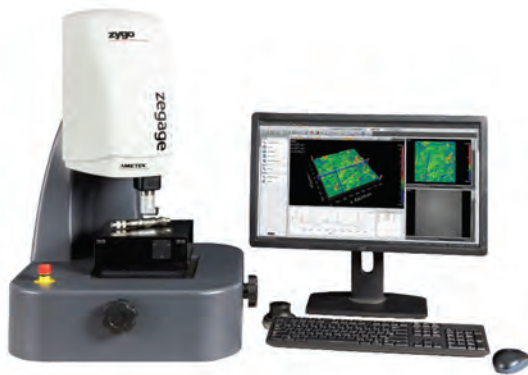
Mercury 305 mm Thermometers
 – Yellow Back
 Temperature Range: -10 - 360°C

Sub Divided Thermometer - Mercury Glass
 – Yellow Back
 Temperature Range: -5 - 105°C
 Length: 305- 375mm

Mercury 152 mm
 Temperature Range: -10 - 110°C



TRIBLOGY & WATER TUNNEL



Model: ZeGage 3D optical Surface Profiler

Scanning white light interferometer that provides 3D optical surface profiling for the measurement of precision surfaces that require non-contact metrology.



Water Tunnel

The Rolling Hills Research Corporation Model 0710 University Desktop Water Tunnel is the latest addition to RHRC's Eidetics® line of water tunnel research products.

MISCELLANEOUS

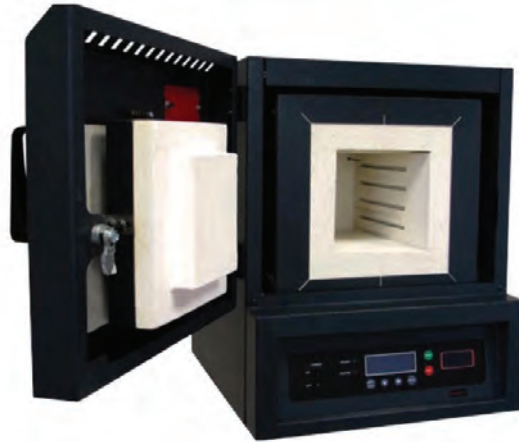
CUSTOM-MADE PRODUCTS

Tribology



Furnace

Most often utilized in laboratories as a compact means of creating extremely high temperature-atmospheres up to 1800 °C.



Hydraulic Hot Press

Hydraulic presses are commonly used for moulding and metal forming operations. With the growth and importance of light-weighting in the aerospace and automotive industry, more applications are present in Thermoplastics, Composites, SMC Sheet Moulded Composites, RTM Resin Transfer Molding, GMT Glass Mat Transfer and Carbon Fiber Molding.



Metallurgy Equipment

Variable speed Polisher/Grinder with fully moulded FRP body. Quick change disc design enables discs with different emery grits/polish cloths to be used in desired steps.



MISCELLANEOUS



Label Maker

The BMP®51 Label Maker has all the latest features for portable printing on the go: a large display screen, easy-to-use label design apps, fast print speed, and more. You can carry this printer throughout your facility to quickly and easily make labels on the go. It has a 300 dpi print head and prints at a speed of 1 inch per second. It can print on a variety of continuous and die-cut materials up to 1.5" wide.

With a built-in cutter, easy top-loading cartridges, and 2 battery options and one is AC, the BMP51 Label Maker is a powerful printer for on-the-job label making.



Cleaning Agent / Radioactive Decontaminant

Decon 90, leading surface active cleaning agent/radioactive decontaminant laboratory detergent, surface active cleaning agent and radioactive decontaminant, liquid concentrate (for dilution with water), phosphate-free, biodegradable, bactericidal, non-flammable, totally rinsable, also suitable for medical and specialised industrial applications, including the cleaning and/or decontamination of glassware, ceramics, rubbers, plastics, stainless steel and ferrous metals, plastic bottle container with tamper evident screw cap.



Rubber / Silicone Products



Pipette Filler, Rubber Stopper DIN 12871, Stoppers for Butyrometer, Spiral Stoppers, Filter Disks, Rubber Cuffs, Filter Ring with Flange, Rubber Spacers (GuKo), Hollow Stoppers, Rubber Sleeve Stoppers, Rubber Policeman, Rubber Spatula, Reagent Glasware Cleaner.

Tubing, Tubing for Laboratory, Silicone Tubing, Viton® Tubing, Latex Tubing, Perbunan Tubing, PVC Tubing, PVC Tubing with reinforced Webbing, Polyethylene Tubing, Butyl Rubber Tubing, PTFE Tubing, Poruos Rubber Tubing Silicone Tubing with Webbing.

Hollow Parts, Small Rubber Bulbs, Large Rubber Bulbs, Rubber Balloon, Rubber Balloon with Hose, Pressure Ball, Pressure Ball Set with Net, Atomizer Bulb.

MISCELLANEOUS



Sealing Film

PARAFILM® M sealing film Parafilm® M is a unique self-sealing, moldable and flexible film for numerous uses in the typical laboratory including electron microscope laboratories. Parafilm® M has unique permeability properties, impressive water vapor transport properties, and is resistant to many common reagents. With the use of the special Parafilm® M dispenser, which is sized to take either the 2" (50.8 mm) or 4" (101.6 mm) wide rolls, one can conveniently cut off uniform sized strips or squares of 2" (50.8 mm) length.

The thickness of all Parafilm products is 0.005" (127µm). Can be stretched up to 200% and clings around irregular shapes and surfaces. Parafilm® M is resistant to many polar substances such as saline solutions, inorganic acids and alkaline solutions for up to 48 hours (After this time it may become brittle). Parafilm® M conforms to general FDA requirements if used below 55°C.



Millipore Replacement Cartridge

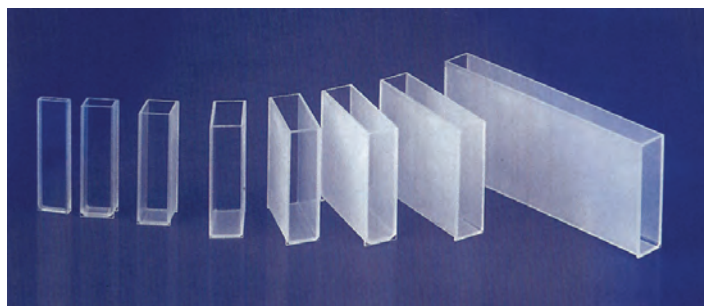
Offer a wide range of replacement cartridge and accessories for Millipore Lab water systems.

Compatible with most of the Milli-Q, Direct-Q and Elix Advantage water system.

Offer repair service for failed control board and power Board on Various Millipore water system.



Quality Quartz Cuvette Cell



We offer a full line of quartz cells for use in UV/Visible the Spectrometer, Spectrophotometer, Colorimeter, Tintometer, Fluorometer and other instruments.

MISCELLANEOUS

TRACEABLE® PRODUCTS

ISO/IEC 17025 Accredited Calibration Lab

All Traceable products are provided with a Traceable Calibration Certificate from our ISO 17025 calibration laboratory and ISO Guide 34 Certified Reference Material Producer.



Refrigerator Freezer

Traceable® digital temperature measurement, monitoring, data loggers, and cloud monitoring devices exceed rugged standards for refrigerators or freezers always.



Hygrometers

These humidity monitoring device displays and records relative humidity and temperature measurements for numerous environments. As an accurate, reliable, and easy-to-use hygrometer thermometer, this device allows for constant surveillance of materials/products that are humidity-critical.



MISCELLANEOUS

CHEMICAL SUPPLIES

Electronic Chemical

– solvents, acids, fluxes in IC and PCB Board Etching, Electroplating, VCD processing chemicals.

Industrial Chemical

– formulated according to customers' specifications.

Household Chemical

– for cleaning dishes, floor, mosaic, toilet, vegetables, window and laundry, stain remover, toilet blue, germicide, disinfectant floor polish.

Personal Care Chemical

– shampoo, conditioner, hair cream, hair gel, hand and body lotion, sunscreen lotion, cleanser, mouthwash, baby oil.

Maintenance Chemical

Laboratory Chemical

Food Chemical



IMPORTED CHEMICAL BRANDS



LOCAL CHEMICAL BRANDS



MEDIA





FOR ENQUIRIES / INFORMATION, PLEASE CONTACT:

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10 & 10-1, Jalan Avenue 1, Avenue Ampang, 68000 Ampang,
Selangor

Tel: +603 4296 5355 Fax: +603 4295 6005

General e-mail:
sales@jatikhas.com jatikhas.sales@gmail.com

Website: www.jatikhas.com

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