

medline

s c i e n t i f i c l i m i t e d

LABORATORY EQUIPMENT AND SUPPLIES

Autoclaves	
Balances	
Baths	
Centrifuges	
Consumables	
Incubators	
Mantles	
Microscopes	
Ovens	
Pipettors	
Shakers	
Stirrers	

www.medlinescientific.com



Welcome to the latest edition of the Medline laboratory equipment and supplies catalogue.

Established in 1992, medline specialises in the supply of cost effective, high quality laboratory and medical products including both consumable items and capital equipment.

The company has a broad customer base that includes major national and international distributors, universities, hospital trusts, independent laboratory groups, schools and manufacturing industries. Our primary warehouse is based in Chalgrove, Oxfordshire, UK from where we offer over 5000 carefully selected and proven products.

In 2005 we opened our European service and distribution centre in northern France with additional offices established in India and South East Asia.

Our products are chosen on the basis of known quality, reliability and value. All instruments are CE and ISO accredited, produced to the most stringent regulations.

The company operates a Quality System approved to ISO9001:2000

For technical queries, stock availability or to place an order, please contact our sales office and we will be happy to show you how we can deliver your laboratory requirements with great precision and speed.

Tel: 00 44 1865 400321

e-mail: sales@medlinescientific.com

**Alternatively, please visit our website at
www.medlinescientific.com**

All electrical instruments are mains powered: 220 ~ 240V / 50 ~ 60Hz (except where otherwise indicated).

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B

BALANCES

- ▶ JTB series
- ▶ TDA series
- ▶ TDB series

Analytical balances and Microbalances are accurate and precise instruments used to measure masses. They require a draft-free location on a solid bench that is free of vibrations. Some modern balances have built-in calibration masses and temperature monitoring to maintain accuracy. Ideal for use in laboratories, some can be used

for pipette calibration, small animal weighing and density determination.

Our range of laboratory weighing scales and balances covers all the requirements of the modern laboratory, whether you are in a pharmaceutical industry, quality control laboratory, a university, college or a school; you will find the right scale here.

PRECISION BALANCE

JTB SERIES

- ▶ High precision load cell
- ▶ Aluminium alloy die cast base and mains
- ▶ Stainless steel pan
- ▶ Super bright LCD display with backlight
- ▶ AC/DC Power supply
- ▶ Full capacity subtraction
- ▶ Overload protection
- ▶ Glass windshield supplied as standard
- ▶ RS232 Interface supplied as standard
- ▶ Below balance hanger supplied as standard
- ▶ Check weighing, parts counting
- ▶ Stabilisation time 1.5 seconds
- ▶ Optional: LED display available.



Product code	MD8103	MD8104
Capacity (g)	0 to 100	0 to 200
Readability (g)	0.001	
Repeatability (g)	±0.001	
Linearity (g)	±0.001	
Corner error (g)	±0.001	
Pan size (mm)	ø125	
Weighing units	g, ct, oz, lb, ozt	
Dimensions W x D x H (mm)	190 x 287 x 267	
Net weight (Kg)	4	



PRECISION BALANCE

TDA SERIES

- ▶ High precision load cell
- ▶ Full plastic housing, stainless steel pan
- ▶ Super bright LCD display
- ▶ Full capacity subtraction, overload protection
- ▶ Below balance hanger
- ▶ Stabilisation time 1.5 seconds typically
- ▶ Power supply, 9V DC/Dry battery
- ▶ Auto calibration, check weighing, parts counting.

Product code	TD3002M	TD6002M	TD10002M	TD20002M	TD30002M
Capacity (g)	0 to 310	0 to 610	0 to 1000	0 to 2000	0 to 3000
Readability (g)	0.01				
Pan size (mm)	ø133				
Weighing units	g, ct, oz				
Dimensions W x D x H (mm)	265 x 200 x 80				
Net weight (Kg)	1.3				

Product code	TD10001M	TD12001M	TD20001M	TD30001M	TD50001M
Capacity (g)	0 to 1000	0 to 1200	0 to 2100	0 to 3100	0 to 5100
Readability (g)	0.1				
Pan size (mm)	ø133		155*143		
Weighing units	g, ct, oz				
Dimensions W x D x H (mm)	265 x 200 x 80				
Net weight (Kg)	1.3				



PRECISION BALANCE

TDB SERIES

- ▶ High precision load cell
- ▶ Aluminium alloy die cast base and mains
- ▶ Stainless steel pan
- ▶ Super bright LCD display
- ▶ RS232 Interface supplied as standard
- ▶ Below balance hanger supplied as standard
- ▶ Full capacity subtraction, overload protection
- ▶ Check weighing, parts counting
- ▶ Stabilisation time 1.5 seconds
- ▶ Weighing units: g/ct/oz/ozt/lb

Product code	TDB3002M	TDB5002M	TDB6002M	TDB10002M	TDB20002M	TDB30002M
Capacity (g)	0 to 310	0 to 510	0 to 610	0 to 1000	0 to 2000	0-3000
Readability (g)	0.01					
Pan size (mm)	ø133					
Dimensions W x D x H (mm)	265 x 200 x 80					
Net weight (Kg)	2.9					

B

BATHS AND CIRCULATORS

- ▶ Heating Baths
- ▶ Shaking/Heating Baths
- ▶ Heating Bath Circulators
- ▶ Refrigerated & Heating Bath Circulators
- ▶ Accessories

Safety Features

- ▶ Built-in power cut off circuit with audible and visual alarms.
- ▶ Automatic power cut off to the heater and controller before the unit shuts down in case of overheating.
- ▶ Two separate fuses.
- ▶ Time setting functions for both Automated Run and Off. (except for BW-B and BW-H Models)
- ▶ Integrated time setting function for Delayed ON/OFF.
- ▶ Operation mode selection function between Automated Run and Manual Run.
- ▶ Protection against low fluid level and dry running. (except for BW-B and BW-H Models):
- ▶ Intermittent alert sounds along with a visual alarm on the control panel.
- ▶ Automatic shut down of the heater following the alarms to protect users and samples.

User-friendly Control Features

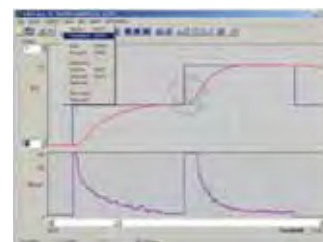
- ▶ Advanced electronic and program controls. (except for BW-B Models)
- ▶ Microprocessor PID temperature control with easy-to-use calibration and auto tuning features.
- ▶ Preset 3 most commonly used temperature settings provided.
- ▶ Simple conversion between Celsius and Fahrenheit.
- ▶ Intuitive control display based on HMI (Human Machine Interface) design concept. (except for BW-B and BW-H Models)
- ▶ Similar key arrangements for entire product range.
- ▶ Splash-proof and easy-to-clean keypad and bright LED displays.
- ▶ A quick lock button preventing accidental resetting of parameters.

Constructional Features

- ▶ High-quality 304 grade stainless steel interior bath and dirt-repellent powder coating for all external surfaces.
- ▶ Corrosion-resistant stainless steel construction of all wetted parts allowing other bath fluids as well as water.
- ▶ Corrosion-resistant, seamless, leak-proof, round-cornered, and easy-to-clean stainless steel reservoir.

Lab Tracer - Control software

- ▶ Software and connecting cable included on units with RS-232 interface.
- ▶ Display of temperature values and effective space heating/cooling capacity on PC.
- ▶ Programming and recording of time parameter and individual temperature profile.



Pictured with gable cover (optional)

WATER BATH BWH-SERIES

An economic range of water baths covering most applications, with a temperature range from ambient +5°C to 100°C.

- ▶ PID temperature controller
- ▶ Over temperature limiter with alarm indication
- ▶ Digital LED temperature display

Model	BW-05H	BW-10H	BW-20H
Product code	AAH45115K	AAH45125K	AAH45135K
Bath volume (Litres)	3.5	11.5	20
Temperature	Range (°C)	Amb. +5 to 100	
	Accuracy (°C)	± 0.1	
Bath opening / Depth W x L, D	240 x 136, 150	300 x 240, 200	498 x 300, 200
Dimensions W x D x H (mm)	307 x 216 x 266	364 x 316 x 318	564 x 372 x 318
Net weight (Kg)	6.5	10	18.5

(Analogue controlled units also available.)

DUAL WATER BATH BWH-SERIES

A range of dual tank water baths with specifications as per BWH single chamber baths.

- ▶ 2 separate individually controlled baths
- ▶ PID temperature controller
- ▶ Over temperature limiter with alarm indication
- ▶ Digital LED temperature display



Pictured with open ring covers (optional)

Model	BWH-0505H	BWH-0510H	BWH-1010H	BWH-1020H
Product code	AAH47115K	AAH47125K	AAH47135K	AAH47145K
Bath volume (Litres)	3.5 & 3.5	3.5 & 11.5	11.5 & 11.5	11.5 & 20
Working temperature range (°C)	Amb. +5 to 100			
Temperature stability (°C)	± 0.1			
Bath opening / Depth W x L x H (mm)	240 x 136 x 150 & 240 x 136 x 150	240 x 136 x 150 & 300 x 240 x 200	300 x 240 x 200 & 300 x 240 x 200	300 x 240 x 200 & 498 x 300 x 200
Dimensions W x D x H (mm)	590 x 200 x 265	544 x 300 x 318	706 x 300 x 318	844 x 356 x 318
Net weight (Kg)	9.7	12.4	14	17.6

WATER BATH BWG-SERIES

A range of water baths covering most applications, with a temperature range from ambient +5°C to 100°C, supplied with flat cover.

- ▶ Microprocessor PID controller/auto timing/calibration
- ▶ Digital timer (1 min - 99hrs 59 mins)
- ▶ Over temperature limiter with low fluid protection
- ▶ Memory set points for three different temperatures



Model	BW-05G	BW-10G	BW-20G
Product code	41405	41415	41425
Bath volume (Litres)	5	10	20
Temperature	Range (°C)	Amb. +5 to 100	
	Accuracy (°C)	± 0.2	
Bath opening / Depth W x L, D	231 x 150, 160	285 x 211, 180	345 x 290, 200
Dimensions W x D x H (mm)	355 x 260 x 334	410 x 311 x 354	471 x 390 x 374
Net weight (Kg)	10	14	18

WATER BATH BS-SERIES

A range of shaking water baths covering most applications, with a temperature range from ambient +5°C to 100°C, supplied with hinged gabled cover.

- ▶ Microprocessor PID controller/auto timing/calibration
- ▶ Digital timer (1 min - 99hrs 59 mins)
- ▶ Splash proof keypad



Model	BS-06	BS-11	BS-21	BS-31
Product code	44062	44112	44212	44312
Bath volume (Litres)	17	25	37	55
Temperature	Range (°C)	Amb. +5 to 100		
	Accuracy (°C)	± 0.2		
Shaking system	Motion / Speed range (RPM)	Reciprocating / 20 to 180		
	Stroke length	25, 30, 35 (Preset at 30)		
Dimensions (mm)	Bath opening / Depth W x L, D	109 x 243, 235	229 x 243, 235	389 x 243, 235
	External W x D x H	430 x 440 x 355	550 x 440 x 355	710 x 440 x 355
Net weight (Kg)	26	30	35	42



WATER BATH CIRCULATOR CW-SERIES

Specially designed for precise temperature control of external instruments or for immersion purposes using a powerful pump, with 5 adjustable pressure settings.

- ▶ Microprocessor PID controller/auto timing/calibration
- ▶ Digital timer (1 min - 99hrs 59 mins)
- ▶ Digital LED display
- ▶ RS-232 interface and Lab Tracer software

Model	CW-05G	CW-10G	CW-20G	CW-30G
Product code	52305	52315	52325	52335
Bath volume (Litres)	5	10	20	30
Temperature	Range (°C)	Amb. +5 to 150		
	Accuracy (°C)	± 0.05		
Pump	Pressure flow rate	28 l/min		
	Suction flow rate	10 l/min		
Dimensions W x D x H (mm)	220 x 395 x 424	281 x 450 x 444	360 x 510 x 464	370 x 560 x 494
Net weight (Kg)	12.5	15	17.5	19.5

REFRIGERATING WATER BATH CIRCULATOR RW-SERIES

Refrigerated baths with a powerful circulation pump for external and internal circulation. Temperature range from -25°C to 150°C.

- ▶ Microprocessor PID controller/auto timing/calibration
- ▶ Digital timer (1 min - 99hrs 59 mins)
- ▶ Over temperature limiter with low fluid protection
- ▶ Memory set points for three different temperatures
- ▶ RS-232 interface and Lab Tracer software



Model	RW-0525G	RW-1025G	RW-2025G	RW-3025G
Product code	57002	57012	57022	57032
Bath volume (Litres)	5	10	20	30
Temperature	Range (°C)	-25 to 150		
	Accuracy (°C)	± 0.05		
Pump	Pressure flow rate	28 l/min		
	Suction flow rate	10 l/min		
Dimensions W x D x H (mm)	302 x 438 x 690	360 x 490 x 780	380 x 560 x 825	440 x 620 x 895
Net weight (Kg)	37	44	60	70

REFRIGERATING WATER BATH CIRCULATOR RW-SERIES (LOW TEMPERATURE)

Refrigerated baths with a powerful circulation pump for external and internal circulation. Temperature range from -35°C to 150°C.

All units come complete with a stainless steel lid, RS232 port and Lab Tracer software, external circulation capability, a dual digital display of set and actual temperatures, the 3 user profile settings feature and a timer.

Model	RW-0540G	RW-1040G	RW-2040G	RW-3040G
Product code	57102	57112	57122	57132
Bath volume (Litres)	5	10	20	30
Temperature	Range (°C)	-35 to 150		
	Accuracy (°C)	± 0.05		
Pump	Pressure flow rate	28 l/min		
	Suction flow rate	10 l/min		
Dimensions W x D x H (mm)	302 x 438 x 690	360 x 490 x 780	380 x 560 x 825	440 x 620 x 895
Net weight (Kg)	38	44	60	67

ACCESSORIES AND OPTIONS FOR SHAKING / HEATING BATHS



Universal Platforms



Flask Clamps



Dedicated Platforms



Test Tube Racks

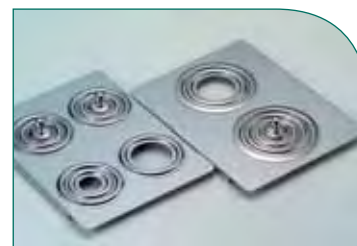
FOR BATHS AND BATH CIRCULATORS



Transparent Polypropylene
Gable Covers



Stainless Steel Flat Covers



Open-rings Covers



Spring Wire Racks



Half-shelf Adjusters Additional



Suction Pumps

FOR VISCOMETER HEATING BATHS (see page 80)



Viscometer Tube Holders



Cooling Circulators

C

CENTRIFUGES

- ▶ Microcentrifuges
- ▶ Centrifuges



The bench top centrifuge is the most common and versatile type of centrifuge. It has a variety of uses, from routine specimen preparation to research, and is referred to by some manufacturers as universal due to the extensive range of uses and rotors. Speeds and g-force vary greatly and most models are also available in a refrigerated version.

The Medline range of centrifuges brings a new level of performance and reliability to the laboratory. The low profile compact design means it's easy to reach into the centrifuge whilst still taking up minimal bench space. The range offers suitable centrifugation for all applications including tissue/cell culture, molecular biology, clinical applications as well as proteomics and genomics.

- ▶ Microprocessor control system
- ▶ Multi-mode display
- ▶ Brushless D.C. motor
- ▶ 3 mode operation
- ▶ Self test diagnostics
- ▶ Automatic rotor identification system
- ▶ Automatic imbalance detection system
- ▶ 9 programme memory
- ▶ Compact & noise-free design
- ▶ Special lid locking & safety interlock feature
- ▶ 10 levels of acceleration & deceleration



MD-15000RF

MICROCENTRIFUGES

Product code	MD-15000N	MD-15000RF
Type	Micro High-speed	Refrigerated
Max. speed (rpm)	15,000	
Max.RCF (g)	16,853	
Max. capacity	1.5ml x 24 Tubes	
Control	Microprocessor control	
Display	Back Lit LCD	
Running mode	Triple Mode/RPM,RCF & Pulse settings	
Programmability	9 memory settings	
Rotor recognition	Automatic recognition (ARIS)	
Acceleration	10 profiles	
Deceleration	10 profiles	
Timer	99 min.59sec. & Hold for long run	
Cooling device	Air cooling	Hermetically sealed compressor
Temperature range	-	-10°C to 40°C
Drive system	Brushless DC motor, direct drive	Brushless DC motor, V-type, direct drive
Safety device	Over speed protector, Door Locking, Un balance detector	Over speed protector, Door Locking, Un balance detector, Over/Under Temp. protector
Dimensions W x D x H (mm)	255 x 335 x 230	370 x 600 x 330
Net weight (Kg)	7.8	48



MC-5000

Product code	MC-5000	MC-16000	MC-16000R
Type	Low Speed	High Speed	Refrigerated
Max. speed (rpm)	5000	16000	16000
Max.RCF (g)	4390	17800	17800
Max. capacity	4 x 250ml	10 x 5ml	4 x 100ml
Timer (Min)	0-99 min	0-99 min	0-99 min
Motor	Brushless		
Noise (dB)	≤ 65		≤ 60
Temp. range	-		-20°C +40°C
Temp. accuracy	-		± 2°C
Dimensions L x W x H (mm)	440 x 550 x 330	240 x 300 x 200	620 x 500 x 350
Net weight (Kg)	40	12	70



MC-16000

Product Code	MC-12000	MC-7000	MC-16000RP
Type	Capillary	Multipurpose	Refrigerated
Max. speed (rpm)	12000	7000	16000
Max. RCF (g)	14800	6915	21110
Max. capacity	24 x capillaries	6 x 250ml	12 x 1.5ml
Timer (Min)	0 to 99		
Motor	Brushless	Inverter	Induction
Noise (dB)	≤ 65	≤ 55	≤ 58
Temp. range	-		-20°C to 40°C
Temp. accuracy	-		± 2°C
Dimensions L x W x H (mm)	330 x 390 x 320	440 x 550 x 330	545 x 340 x 275
Net weight (Kg)	26	45	40

ACCESSORIES AND OPTIONS



15ml Swing Out Rotor



1.5ml Fixed Rotor



50ml Fixed Rotor



10ml Swing Out Rotor



Conical Tubes



Microcentrifuge Tubes

C

CLEANING AND DISINFECTION REAGENTS

- ▶ Detergents for Glassware & Laboratory Equipment
- ▶ Hygienic Hand wash & Disinfectants



The RBS range provides a wide selection of cleaning and disinfecting agents for glassware and equipment covering every application within the Laboratory, Industrial and Medical fields.

Environmentally friendly and economical products for various cleaning processes.

- ▶ Manual
- ▶ Soaking
- ▶ Ultrasonic cleaning
- ▶ Labware washers
- ▶ Surface cleaning
- ▶ Glassware

Laboratories

RBS 25 Concentrate

- ▶ Multipurpose alkaline detergent for manual cleaning, soaking and ultrasonic cleaning of glassware and laboratory equipment made of stainless steel, plastic, porcelain, etc. In industry it is recommended for cleaning parts and devices made of glass, stainless steel, injection moulds, silicon or quartz wafers, production equipment, etc.. For laboratory and industrial applications

RBS 35 Concentrate

- ▶ Multipurpose alkaline detergent (hard water stable) for manual cleaning, soaking and ultrasonic cleaning of glassware and laboratory equipment made of stainless steel, plastic, porcelain, etc. In industry, it is recommended for cleaning parts made of glass, stainless steel, injection moulds, production equipment, etc. For laboratory and industrial applications

RBS 50

- ▶ Non foaming alkaline detergent for labware washers. Used for cleaning glassware and laboratory equipment made of stainless steel, plastic, porcelain, quartz and ceramic. In industry, it is recommended for cleaning parts and surfaces made of glass, stainless steel, production equipment, etc. Contains chlorine

RBS 50 pF

- ▶ Phosphate free version of RBS 50, non foaming. Contains chlorine

RBS SOLID

- ▶ Non foaming Alkaline powdered detergent for cleaning and degreasing in labware washers to clean glassware and equipment made of stainless steel, plastic, porcelain, etc. it removes distillation residues, proteins, oils, greases, etc.

RBS SOLIDPF

- ▶ Phosphates-free version of RBS SOLID, non foaming.

RBST 230 NEUTRAL

- ▶ Neutral foaming detergent for soft cleaning by immersion or ultrasonic bath of glassware and sensitive laboratory equipment, materials to bases or acids such as aluminium, zinc, etc. and their alloys having similar properties.

RBST 105 ALKALINE

- ▶ Multipurpose foaming alkaline detergent for manual cleaning, immersion and ultrasonic cleaning of glassware and laboratory equipment made of plastic, porcelain, quartz and ceramic. It allows the removal of organic and inorganic residues, greases, oils, distillation residues, proteins, cells cultures ...

RBST 115 ALKALINE PF

- ▶ Phosphate free version. Recommended for use in analytical laboratories where the presence of phosphorus derivatives are not desired.

RBST 305 DESCALER

- ▶ Strong acidic detergent for manual cleaning, degreasing and de-scaling of surfaces and laboratory equipment. Particularly efficient for the removal of lime, metal oxides, mineral salts, insoluble inorganic residues, metal oxides and scale residues on glassware, equipment and surfaces made of stainless steel, plastic, porcelain, quartz and ceramic. It is also suitable for cleaning animal cages and rooms in laboratories and veterinary institutions. Contains phosphoric acid.

RBS NA2

- ▶ Acid neutralising agent for use in labware washers for cleaning glassware and laboratory equipment in washing machines. In prewash cycle, it allows the removal of mineral salts and other hard to clean soils with an alkaline detergent. In the rinsing cycle, it neutralizes the residual alkaline traces of the main alkaline washing cycle. To combine with RBS 50

RBS A888

- ▶ Ready-to-use solution for cleaning and degreasing parts and surfaces made of glass, lenses and optical devices. It allows the removal of fatty residues, inks, fingerprints and dusts. It is particularly suitable for the removal of markers traces from laboratory glassware.

Industry

RBS 48S

- ▶ Non foaming alkaline detergent for automatic washing, cleaning in place and power spray systems, used for cleaning glassware and laboratory equipment made of stainless steel, plastic, porcelain, etc. It is also recommended in the pharmaceutical industry for cleaning in place process of tanks and production equipment made of stainless steel.

RBS IND 700

- ▶ High performance alkaline detergent for manual cleaning, soaking and ultrasonic cleaning of parts and equipment made of glass, plastic and stainless steel, including, electronic components, silicon wafers, metal parts, injection moulds, glass and optical components.

RBS IND 740

- ▶ Phosphate free alkaline detergent for manual cleaning, soaking and ultrasonic cleaning of parts and equipment made of glass, plastic and stainless steel, including optical lenses, injection moulds, production equipment, etc.

RBS IND 470

- ▶ Recommended for cleaning and decontamination of parts, containers, surfaces and equipment made of stainless steel, glass and plastic. It is suitable for use in nuclear power stations, cyclotrons and institutions handling radioactive materials.

Medical

RBS M 410

- Alkaline cleaning agent for manual cleaning of surgical and dental instruments before sterilisation and medical material made of stainless steel, chromed steel, etc. It allows efficient removal of blood residues, proteins, cells tissues, biofilms, fatty residues and ointments.

RBS M 415

- Cleaning and pre-disinfecting agent for instruments and medical equipment before sterilisation, including dental material, surgical instruments (mini-invasive, microsurgery, etc.), endoscopes, breathing apparatus, anaesthesia material, etc. Besides its efficacy against germs, it removes blood residues, various secretions, biofilms and proteins

RBS FOGLYAM MD

- Cleaning and disinfecting solution for floors, surfaces and medical devices. By its specific formulation combining the presence of aldehydes and quaternary ammonium compounds, RBS FOGLYAM MD presents a wide spectrum of bactericidal activity. It prevents the spreading of pathogenic germs and thus ensures safety in the high risk areas. It also allows effective elimination of bloods traces, proteinic and cells residues, greases, oils, etc. It is recommended for the daily disinfection and cleaning of the frequented zones in hospitals. It best suits the wiping of surfaces: benches, tiling and furniture.

RBS 200A MD

- Ready-to-use cleaning and disinfecting solution in spray form for surfaces, floors, benches and furniture. It ensures the removal of blood residues, chemical solutions, and fatty deposits



	pH at recommended concentration	Alkaline	Neutral	Acidic	Foaming	Chlorinated ingredient	Phosphates
RBS 25 Concentrate	11.9	•			•	•	•
RBS 35 Concentrate	11.5	•			•	•	•
RBS 50	10,5	•				•	•
RBS 50 pF	11,0					•	
RBS SOLID	10,6	•				•	•
RBS SOLIDPF	10,7	•				•	
RBST 230 NEUTRAL	7,3		•		•		•
RBST 105 ALKALINE	11,8	•			•	•	•
RBST 115 ALKALINE PF	11,7	•			•		
RBST 305 DESCALER	1,5			•	•		
RBS NA2	2,2			•			
RBS A888							
RBS 48S	11.0					•	•
RBS IND 700	11.8	•			•	•	•
RBS IND 740	11.7	•			•		
RBS IND 470	12.6	•			•		
RBS M 410	11.8	•			•	•	•
RBS M 415	11.6	•			•		•
RBS FOGLYAM MD	6		•		•		
RBS 200A MD	5		•		•		

Handcare

RBS HDS10

- Bactericidal liquid hand soap, effective against HIV

RBS HDS15

- Bactericidal liquid hand soap with perfume, particularly suitable for hand washing due to its lightly acid pH and moisturizing agents.
- Bactericidal activity according to EN 1040 and EN 1499.
- Authorized as biocidal product. Authorization n°: NOTIF 444

RBS HDS GEL

- Hydro-alcoholic gel. Suitable for hand disinfection in laboratories, hospitals and collectivises.
- Helps to prevent propagation of contagious germs.
- Biocidal product. Authorization n° NOTIF75.
- Conforms to EN 1040 and EN 1275.
- Hygienic hand disinfection according to EN 1500.
- Active against Influenza A H1N1 virus according to EN 14476.

RBS HDS LOTION

- Hydroalcoholic lotion for hygienic hand disinfection
- Active against bacteria and fungi.
- Biocidal Product. Authorization number: NOTIF74
- Conforms to EN 1040 and EN 1275.
- Hygienic hand disinfection according to EN 1500.



C

CONSUMABLES

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- › Test Tubes
- › Centrifuge Tubes
- › Test Tube Caps & Re-Caps
- › Autoclave Bags
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- › Serological Pipettes
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- › Plastic Pasteurs
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- › Gloves
- › Plastic Bags/ Zip-lock Bags
- › Microtitration Plates
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- › Special Bottles
- › Scoops & Weigh Boats
- › Petri Dishes

Medline offers a comprehensive range of disposable and reusable plastic products from Deltalab. The following section details the most common products which are available from our stocks in Oxfordshire.

The complete product range is covered by our separate 300 page catalogue (available upon request). This range is targeted at all laboratory disciplines, from microbiology to research applications.



Product code	Description	Material	Sterility	Case Quantity
Containers				
129202	7ml Bijou container, no label	PS	S	700
129205	7ml Bijou container, with label	PS	S	700
309202	30ml Universal, no label	PS	S	400
309201	30ml Universal, printed label	PS	S	400
309201FL	30ml Universal, with label flow seal (bags of 50)	PS	S	400
409202	30ml Universal, no label	PP	S	400
409201	30ml Universal, printed label	PP	S	400
309202.4	30ml Universal, plain label	PS	S	400
309602.E	30ml Universal with spoon, printed label	PS	S	400
409602	30ml Universal with spoon, no label	PP	S	400
409202.B	30ml Universal with boric acid	PS	S	400
409402	40ml Plastic cap, no label	PP	S	800
409802	50ml Plastic cap, no label	PP	S	1000
419802	50ml Tamper evident plastic cap, no label	PP	S	1000
409502	60ml Clear plastic cap, no label	PP	S	600
409501	60ml Clear plastic cap, with printed label	PP	S	600
409511.4	60ml Blue, screw cap, no label	PP	S	600
409511.5	60ml Blue, screw cap, plain label	PP	S	600
409511	60ml Dark blue, screw cap, plain label	PP	S	600
309502	60ml Plastic cap, no label	PS	S	600
309501	60ml Plastic cap, printed label	PS	S	600
309502.6	60ml Plastic cap, plain label	PS	S	600
409711.4	125ml Blue, screw cap, no label	PP	S	475
409711.5	125ml Blue, screw cap, plain label	PP	S	475
409702	125ml Natural, screw cap, no label	PP	S	475
409752	125ml Natural, screw cap with spoon	PP	S	475
409915	200ml Blue, screw cap, no label	PP	S	275
409905	200ml Blue, screw cap, plain label	PP	S	275
409902	200ml Natural, screw cap, no label	PP	S	275



Product code	Description	Material	Sterility	Case Quantity
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Containers Individually Wrapped

409222	30ml Container, no label	PP	S	400
409426	40ml Container, no label	PP	S	800
409826	50ml Container, no label	PP	S	900
409526	60ml Container, no label	PP	S	850
409726	125ml Container, no label	PP	S	400
309222	30ml Universal, no label	PS	S	400
409222	30ml Universal, no label	PP	S	400
309526	60ml Container, no label	PS	S	850



Histology Containers (Double seal cap)

202840	20ml Yellow screw cap container	PP/PE	NS	1000
202841	40ml Yellow screw cap container	PP/PE	NS	600
202842	60ml Yellow screw cap container	PP/PE	NS	500
202843	80ml Yellow screw cap container	PP/PE	NS	400
202848	90ml Yellow screw cap container	PP/PE	NS	300
202844	100ml Yellow screw cap container	PP/PE	NS	300
202845	250ml Yellow screw cap container	PP/PE	NS	100
202846	500ml Yellow screw cap container	PP/PE	NS	200
202847	1000ml Yellow screw cap container	PP/PE	NS	100



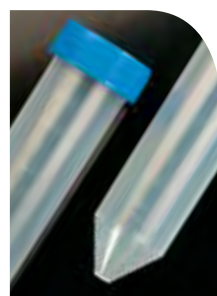
Large Containers (24 Hour urine)

407001	2 litre Graduated container, natural	PE	NS	44
407002	2.5 litre 24 Hour urine collection, labelled	PE	NS	50
407003	2 litre Graduated container, brown	PE	NS	44
407005	2.7 litre Graduated container, natural	PE	NS	34
407006	2.7 litre Graduated container, brown	PE	NS	34
407007	5 litre 24 Hour urine collection, labelled	PE	NS	25



Test Tubes

300500	55 x 11mm, Round bottom	PS	NS	2 x 2000
300300	70 x 11mm, Round bottom	PS	NS	3 x 1000
300800	75 x 12mm, Round bottom	PS	NS	4 x 1000
300700	75 x 13mm, Round bottom	PS	NS	4 x 1000
300705	100 x 16mm, Round bottom	PS	NS	5 x 500
300100	150 x 16mm, Round bottom	PS	NS	1000
400500	55 x 11mm, Round bottom	PP	NS	2 x 2000
400800	75 x 12mm, Round bottom	PP	NS	4 x 1000
400700	75 x 13mm, Round bottom	PP	NS	4 x 1000
401700	100 x 13mm, Round bottom	PP	NS	4 x 1000
400705	100 x 16mm, Round bottom	PP	NS	5 x 500



Centrifuge Tubes

409920	15ml Graduated with screw cap	PP/PE	S	500
409922	50ml Graduated with screw cap	PP/PE	S	500
429901	50ml Graduated with screw cap, skirted	PP/PE	S	500

C

CONSUMABLES



Product code	Description	Material	Sterility	Case Quantity
Test Tube Caps and Re-Caps				
305302	Cap to fit 11mm diameter tube	PP	NS	2000
305802	Cap to fit 12mm diameter tube	PP	NS	2000
307102	Plug tight cap to fit 13mm diameter tube	PP	NS	2000
6010R	Re-cap for 13mm evacuated tube	PE	NS	1000
MED131	Insert cup for 13mm tube 1-5ml	PE	NS	1000



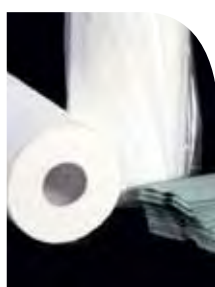
Autoclave Bags				
200310	Autoclave Bag, 300 x 600mm, High temperature	PA	NS	200
200311	Autoclave Bag, 400 x 760mm, High temperature	PA	NS	200
200312	Autoclave Bag, 610 x 780mm, High temperature	PA	NS	200
MD66201	Specimen Bag, 51/2" x 6" x 81/2"	PE	NS	1000
MD66200	Specimen Bag, printed biohazard	PE	NS	1000
V160230	Specimen Bag, 16 x 16.5cm, green	PE	NS	2000
N160230	Specimen Bag, 16 x 16.5cm, orange	PE	NS	2000



Swabs, Loops & Spreaders				
300200	Plain Swab, wooden stick, individually wrapped		S	1000
300230	Plain Swab, wooden stick, cotton tip		NS	100 x 100
300230S	Plain Swab, wooden stick, cotton tip (100's)		S	1000
300250	Plain Swab, wooden stick, cotton tip in PP tube		S	500
300261	Plain Swab, plastic stick, cotton tip in PP tube		S	500
300287	Amies transport swab in PP tube		S	100
300285	Amies transport swab (charcoal) in PP tube		S	100
304281	1ml Amies liquid swab with standard tip		S	100
304282	1ml Amies liquid swab with urethral tip		S	100
304271	1ml Media liquid swab with standard tip		S	100
304272	1ml Media liquid swab with urethral tip		S	100
304291	1ml Virus liquid swab with standard tip		S	100
304292	1ml Virus liquid swab with urethral tip		S	100
302723	1µl loop packs of 20	PS	S	1000
302724	10µl loop packs of 20	PS	S	1000
200500	L shaped Spreaders in Packs of 5	PS	S	500
MLSP25	Blue Spreaders in Packs of 25	PP	S	1000



Serological Pipettes				
900031	1ml Taper jet, bulk wrap 25	PS	S	1000
900030	1ml Taper jet, single wrap	PS	S	500
900131	1ml Open end, bulk wrap 25	PS	S	4 x 1000
900033	2ml Taper jet, bulk wrap 25	PS	S	1000
900032	2ml Taper jet, single wrap	PS	S	500
900038	5ml Taper jet, bulk wrap 25	PS	S	375
900034	5ml Taper jet, single wrap	PS	S	250
900138	5ml Open end, bulk wrap 25	PS	S	4 x 375
900037	10ml Taper jet, bulk wrap 25	PS	S	250
900036	10ml Taper jet, single wrap	PS	S	200
900137	10ml Open end, bulk wrap 25	PS	S	4 x 250
900041	25ml Taper jet, single wrap	PS	S	100



Product code	Description	Material	Sterility	Case Quantity
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Pipette Tips

200009	Yellow pipette tip 5-200µl Universal	PP	NS	1000
200009R	Yellow pipette tip 5-200µl Eppendorf racked	PP	NS	10 x 96
200012	Blue pipette tip 100-1000µl Universal	PP	NS	1000
200012R	Blue pipette tip 100-1000µl Eppendorf racked	PP	NS	10 x 96
200016	Yellow pipette tip 5-200µl Gilson	PP	NS	1000
199620	Yellow pipette tip 5-200µl Gilson racked	PP	NS	10 x 96
200080.1	Blue pipette tip 100-1000µl Gilson	PP	NS	1000
200080.1R	Blue pipette tip 100-1000µl Gilson racked	PP	NS	10 x 96
200019	White slim pipette tip 5-200µl Oxford	PP	NS	1000
200020	Blue slim-line tip 200µl-1000µl Oxford	PP	NS	1000
831-312	White macro pipette tip 5000µl	PP	NS	250
200024	White micro crystal tip 0.5-10µl Gilson	PP	NS	1000
200021	White micro crystal tip 0.5-10µl Gilson	PP	NS	1000
200075	Natural pipette tip 1000-5000ml Biohit	PP	NS	250
200028	Natural pipette tip 1000-5000ml Universal	PP	NS	250
200015	Large Gilson tipette tip 10ml	PP	NS	100
327-40	Large Orifice tip 200ul	PP	NS	1000
327-34	Natural filter tip 200ul	PP	NS	1000
200026	Long Gilson tip 200ul	PP	NS	1000

Plastic Pasteurs

200000	4.5ml Pasteur pipette	PE	NS	400
200003	1.0ml Pasteur pipette, graduated	PE	NS	500
200004	3.0ml Pasteur pipette, ind. wrapped, peel-pack	PE	S	500
200006	3.0ml Pasteur pipette, graduated	PE	NS	500
200007	3.0ml Pasteur pipette, ind. wrapped, peel-pack	PE	S	500
200032	1.0ml Pasteur pipette, graduated, pack of 20	PE	S	500
200034	1.0ml Pasteur pipette, graduated, ind. wrapped	PE	S	500
200037	3.0ml Pasteur pipette, graduated, ind. wrapped	PE	S	500
200050	5.0ml Pasteur pipette, graduated	PE	NS	250
200060	7.0ml Pasteur pipette, Jumbo	PE	NS	100
200062	3.0ml Pasteur pipette, graduated, pack of 20	PE	S	500
210002	3.0ml Fine tip, Pasteur pipette	PE	NS	500
210003	1.0ml Micro fine tip, Pasteur pipette	PE	NS	400
210004	3.0ml Micro tip, Pasteur Pipette	PE	NS	250
210006	2.5ml Pasteur pipette	PE	NS	400
210022	3.0ml Fine tip, Pasteur pipette, ind. wrapped	PE	S	500
210023	1.0ml Micro tip Pasteur pipette	PE	NS	500
210024	3.0ml Pasteur pipette, peel-pack	PE	S	500
210222	3.0ml Fine tip, Pasteur pipette, pack of 20	PE	S	500

Paper Products

120002	Absorbent benchcoat 50cm x 50 meters	P	NS	1 roll
RH5405	10 inch Hygiene rolls 2 ply, white	P	NS	18 rolls
FC9201	C Fold 1 ply, green hand tissues	P	NS	2008
FH0101	Medical wipes 2 Ply, white	P	NS	72 x 72
120001	Post lip paper/Slide blotting paper	P	NS	1000



Product code	Description	Material	Sterility	Case Quantity
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Clinical Waste and Sharp Bins

233039	Yellow clinical waste bags 30" x 39"	PE	NS	100
232025	25 litre Sharpsafe container	PP	NS	10
232802	7 litre Sharpsafe container	PP	NS	50
244000	4 litre Sharps container, round	PP	NS	45
240007	7 litre Sharps container, round	PP	NS	30
240028	25 litre Sharps container, round	PP	NS	10
240035	35 litre Waste container, round	PP	NS	1
240065	60 litre Waste container, round	PP	NS	1
870004	Sweet Jar with cap, small	PET	NS	30
870004H	Sweet Jar with cap & label, small	PET	NS	30
870036	Sweet Jar with cap, large	PET	NS	16
870036H	Sweet Jar with cap & label, large	PET	NS	16

Histo-pathology Containers

241010	250ml Snap top bucket	PP	NS	1
241011	500ml Snap top bucket	PP	NS	1
241013	1000ml Snap top bucket	PP	NS	1
222802	2500ml Snap top bucket	PP	NS	1
222804	5000ml Snap top bucket	PP	NS	1
222805	10000ml Snap top bucket	PP	NS	1
222806	20000ml Snap top bucket	PP	NS	1

Cuvettes

302000	Macro cuvette 1cm square, 4.0ml	PS	NS	500
302100	Semi-micro cuvette square, 1.5ml	PS	NS	500
303100	UV Macro cuvette 1cm square, 4.0ml	PMMA	NS	500
303101	UV Semi-micro cuvette, 2.5ml	PMMA	NS	500

Sample Cups - Auto Analyser

900023	0.25ml Centrifichem sample cup	PS	NS	1000
900024	0.5ml AA cup	PS	NS	1000
900022	1.5ml AA cup	PS	NS	1000
910022	2.0ml Centrifichem sample cup	PS	NS	1000
910023	4.0ml AA cup	PS	NS	1000
900020	Hitachi sample cup	PS	NS	1000

Gloves

100LP	Lightly powdered, small (6-7)	Latex	NS	100
100LM	Lightly powdered, medium (7-8)	Latex	NS	100
100LG	Lightly powdered, large (8-9)	Latex	NS	100
102LP	Powder free, small (6-7)	Latex	NS	100
102LM	Powder free, medium (7-8)	Latex	NS	100
102LG	Powder free, large (8-9)	Latex	NS	100
200VP	Lightly powdered, small (6-7)	Vinyl	NS	100
200VM	Lightly powdered, medium (7-8)	Vinyl	NS	100
200VG	Lightly powdered, large (8-9)	Vinyl	NS	100
202VP	Powder free, small (6-7)	Vinyl	NS	100
202VM	Powder free, medium (7-8)	Vinyl	NS	100
202VG	Powder free, large (8-9)	Vinyl	NS	100



Product code	Description	Material	Sterility	Case Quantity
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Gloves (continued)

402NP	Powder free, small (6-7)	Nitrile	NS	100
402NM	Powder free, medium (7-8)	Nitrile	NS	100
402NL	Powder free, large (8-9)	Nitrile	NS	100
406NP	Powder free, perfect fit, small (6-7)	Nitrile	NS	100
406NM	Powder free, perfect fit, medium (7-8)	Nitrile	NS	100
406NG	Powder free, perfect fit, large (8-9)	Nitrile	NS	100
500NP	Powder free, easy stretch, white, small (6-7)	Nitrile	NS	100
500NM	Powder free, easy stretch, white, medium (7-8)	Nitrile	NS	100
500NG	Powder free, easy stretch, white, large (8-9)	Nitrile	NS	100



Plastic Bags/Zip-lock Bags

M5555	55 x 55 x 0.05mm	PE	NS	2000
M6080	60 x 80 x 0.05mm	PE	NS	2000
M70100	70 x 100 x 0.05mm	PE	NS	2000
M80120	80 x 120 x 0.05mm	PE	NS	2000
M80160	80 x 160 x 0.05mm	PE	NS	2000
M100150	100 x 150 x 0.05mm	PE	NS	2000
M110110	110 x 110 x 0.05mm	PE	NS	2000
M120180	120 x 180 x 0.05mm	PE	NS	2000
M150220	150 x 220 x 0.05mm	PE	NS	2000
M180250	180 x 250 x 0.05mm	PE	NS	2000
M200300	200 x 300 x 0.05mm	PE	NS	2000
M250330	250 x 330 x 0.05mm	PE	NS	2000
M300400	300 x 400 x 0.05mm	PE	NS	2000



Microtitration Plates

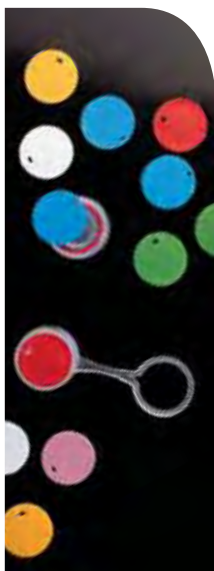
900010SP	U-Well (96 well)	PS	NS	100
900011SP	F-Well (96 well)	PS	NS	100
900012SP	V-Well (96 well)	PS	NS	100
900015SP	Microtitre Plate Lid	PS	NS	100

Sterile, Individually wrapped plates are also available.



Microcentrifuge Tubes

900007	0.4ml Microtube, Beckman	PP	NS	1000
900117	0.5ml Microtube, Vitatron	PP	NS	1000
4092.1N	0.5ml Microtube, RNase free	PP	NS	1000
200400P	1.5ml Microtube, flat top	PP	NS	500
200401	1.5ml Microtube, yellow	PP	NS	5000
200405	1.5ml Microtube, blue	PP	NS	5000
200407	1.5ml Microtube, green	PP	NS	5000
200410	1.5ml Microtube, pink	PP	NS	5000
4092.5N	1.5ml Microtube, twist lock	PP	NS	500
4092.6N	2.0ml Microtube, natural	PP	NS	500
409111/2	1.5ml Microtube, threaded, non-skirted	PP	NS	500
409112/0	Cap with integral O ring for above	PP	NS	500



Product code	Description	Material	Sterility	Case Quantity
Screw Cap Microtubes & Cryovials				
409220	2ml Skirted microtube without cap	PP	NS	500
409601	Screw cap with O ring, natural	PP	NS	500
409612	Screw cap with O ring, white	PP	NS	500
409603	Screw cap with O ring, orange	PP	NS	500
409604	Screw cap with O ring, red	PP	NS	500
409605	Screw cap with O ring, blue	PP	NS	500
409606	Screw cap with O ring, green	PP	NS	500
409607	Screw cap with O ring, yellow	PP	NS	500
409608	Screw cap with O ring, black	PP	NS	500
409105.1	1.2ml Cryovial storage to -190°C	PP	S	1000
409106.1	2.0ml Cryovial storage to -190°C	PP	S	1000
409109	5.0ml Cryovial storage to -190°C	PP	S	1000



Racks & Storage Boxes				
19564	Test tube rack for 90 x 12mm test tubes	PP	NS	1
19567	Test tube rack for 40 x 25mm tubes or universals	PP	NS	1
19568	Test tube rack for 24 x 30mm falcon tubes	PP	NS	1
G-050	Cryo-storage box for 50 x 1.5ml microtubes	PS	NS	1
G-100	Cryo-storage box for 100 x 1.5ml microtubes	PS	NS	1
M-600	Cardboard cryobox for 12mm tubes	C	NS	1
M-500	Cryobox, 50 wells	PP	NS	1
M-510	Cryobox, 100 wells	PP	NS	1



Sterilisation Indicator Tapes				
191050	Ethylene oxide gas, 19mm x 50m		NS	1
191051	Dry heat, 19mm x 50m		NS	1
191052	Autoclave, 19mm x 50m		NS	1



General Labware				
202811	30ml Wide mouth screw cap container	PE	NS	100
202810	60ml Wide mouth screw cap container	PE	NS	200
202808	90ml Wide mouth screw cap container	PE	NS	150
202807	200ml Wide mouth screw cap container	PE	NS	150
202803	500ml Wide mouth screw cap container	PE	NS	125
202818	1000ml Wide mouth screw cap container	PE	NS	50
202820	2000ml Wide mouth screw cap container	PE	NS	35

Many other sizes available



408025	25ml Graduated cylinder	PP	NS	1
408050	50ml Graduated cylinder	PP	NS	1
408100	100ml Graduated cylinder	PP	NS	1
408250	250ml Graduated cylinder	PP	NS	1
408500	500ml Graduated cylinder	PP	NS	1
481000	1000ml Graduated cylinder	PP	NS	1
482000	2000ml Graduated cylinder	PP	NS	1
409025	25ml Graduated beaker	PP	NS	1
409050	50ml Graduated beaker	PP	NS	1
409100	100ml Graduated beaker	PP	NS	1
409250	250ml Graduated beaker	PP	NS	1



Product code	Description	Material	Sterility	Case Quantity
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General Labware (continued)

409500	500ml Graduated beaker	PP	NS	1
491000	1000ml Graduated beaker	PP	NS	1
492000	2000ml Graduated beaker	PP	NS	1
191637	250ml Wash bottle	PE	NS	1
191638	500ml Wash bottle	PE	NS	1

Special Bottles

282320	500ml Sodium thiosulphate bottle	PE	S	24
282321	1000ml Sodium thiosulphate bottle	PE	S	20
282330	500ml Sample bottle, plain label	PE	S	24
282331	1000ml Sample bottle, plain label	PE	S	20
282310	500ml Sample bottle	PE	NS	123
282311	1000ml Sample bottle	PE	NS	73
282340	500ml Wide mouth container with thiosulphate	PET	S	44
282341	1000ml Wide mouth container with thiosulphate	PET	S	48
282349	380ml Wide mouth container	PET	S	50
282350	500ml Wide mouth container	PET	S	44
282351	1000ml Wide mouth container	PET	S	48
282352	1500ml Wide mouth container	PET	S	48
292818	150ml Wide mouth square sample bottle	PE	NS	300
292819	250ml Wide mouth square sample bottle	PE	NS	300
292820	500ml Wide mouth square sample bottle	PE	NS	165
292821	1000ml Wide mouth square sample bottle	PE	NS	90

Scoops and Weigh Boats

1911103	5ml White diamond, 41 x 41 x 8mm	PS	NS	1000
1911104	30ml White diamond, 89 x 89 x 25mm	PS	NS	500
1911105	100ml White diamond, 140 x 140 x 22mm	PS	NS	500
191057	10ml Measuring scoop	PP	NS	12
191058	25ml Measuring scoop	PP	NS	12
191060	100ml Measuring scoop	PP	NS	12

Many other sizes available

Petri Dishes

200200	90mm Triple vent	PS	S	500
200201	55mm Triple vent	PS	S	1200
200200.5	90X15mm Triple vent, eco type	PS	S	500
200201.5	55mm Triple vent, eco type	PS	S	1400
200208	65 x 16mm Contact plate	PS	S	500
200204	120mm x 120mm Square, vented	PS	S	240
200214	140mm Triple vent	PS	S	120

Sterility:

S = Aseptically sterile or irradiated

NS = Non sterile

Materials:

ABS = Acrylonitrile Butadiene Styrene

C = Cardboard

G = Glass

P = Paper

PE = Polyethylene

PET = Polyethylene Terephthalate

PMMA = Polymethyl Methacrylate (Acrylic)

PP = Polypropylene

PS = Polystyrene

SS = Stainless Steel

D

DESICCATORS

- Cubic Vacuum Desiccators
- Round & Cylindrical Vacuum Desiccators
- Accessories

We offer a wide selection of vacuum desiccators, including new UV-blocking models, with outstanding vacuum capability to suit your specific requirements.

CUBIC VACUUM DESICCATORS

Integrally moulded cubic box design enabling outstanding vacuum capability with virtually no leakage and exceptional durability.



Features

- Maximum vacuum of 1 Torr (1.33×10^{-4} Mpa) for 72 hours.
- Greaseless, airtight vacuum seal using high-quality silicone gasket.
- Highly transparent, shatter-proof, non-corrosive and easy-to-clean polycarbonate (PC) construction.
- Convenient three-way stopcock providing consistent and uniform vacuum draw, vacuum release or shutoff.
- Maximised utilisation of internal space using a maximum four to six shelves depending on product size.
- Stackable design allowing efficient usage of cramped lab space.
- Easy vacuum level checking, using the standard vacuum gauge attached to the front door.
- Minimised damage or discoloration of light-sensitive samples when using UV-blocking models.
- Four built-in ports allowing easy attachment of various accessories.

Model ¹⁾		VDC-11 / 11U	VDC-21 / 21U	VDC-31 / 31U	VDC-41 / 41U
Product code	Without UV Block Effect	AAAD4001	AAAD4021	AAAD4011	AAAD4031
	With UV Block Effect (U)	AAAD4101	AAAD4121	AAAD4111	AAAD4131
Internal volume (Litres)		11	23	35	45
Gauge range (Mpa)		0 to - 0.1 (Analog)			
Nozzle (mm Ø)		9.5			
Max. permissible vacuum (bodies)		1.33×10^{-4} Mpa (Analog)			
Max. load (Kg for shelf)		3	5		
Number of shelves (included / max.)		2 / 4		3 / 5	3 / 6
Material	Bodies	Polycarbonate			
	Perforated sample tray				
	Drying agent tray / Locker	Polypropylene			
	Vacuum seal	Silicone Rubber			
Dimensions W x D x H	Internal (mm)	248 x 254 x 238	346 x 365 x 246	355 x 375 x 345	355 x 374 x 445
	External (mm)	322 x 285 x 271	420 x 392 x 281	420 x 397 x 381	420 x 397 x 491
Net weight (Kg)		4.2	8.2	10.8	12.2

¹⁾ U models are translucent (amber-colored) vacuum desiccators with ultraviolet block effect.

ROUND & CYLINDRICAL VACUUM DESICCATORS

Our round design offers light weight yet high tensile strength.

A high-quality silicone O-ring and is specially designed 'Locking Clip' promote outstanding vacuum capability with virtually no leakage.



Features

- Maximum vacuum of 1 Torr (1.33×10^{-4} Mpa) for more than 72 hours.
- High-quality silicone gasket ensures a greaseless, airtight seal for a clean test environment.
- Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.
- Three-way stopcock provides great convenience for consistent and uniform vacuum draw, vacuum release or gas exchange. The barbed fitting on each side permits the secure attachment of tubing.
- A flange lock holds the top and the bottom together during non-vacuum conditions.
- Various models available with respect to capacity and UV blocking effect.
- Minimised damage or discoloration of light-sensitive samples (only for U/UG models).
- A vacuum gauge is attachable at the centre of the lid for easy vacuum level checking (only for G/UG models).
- The top and bottom of cylindrical vacuum desiccators and round vacuum desiccators are compatible with each other for diverse use.
- Newly designed cylindrical desiccators are ideal for storing tall equipment, gas substitution, general drying and preserving.

Model ¹⁾		VDR-20 / 20G VDR-20U / 20UG	VDR-25 / 25G VDR-25U / 25UG	VDR-30 / 30G VDR-30U / 30UG	VDP-25 / 25G VDP-25U / 25UG	VDP-30 / 30G VDP-30U / 30UG
Product code	Clear body	AAAD2011	AAAD2111	AAAD2211	AAAD3011	AAAD3021
	Clear body with vacuum gauge (G)	AAAD2021	AAAD2121	AAAD2221	AAAD3111	AAAD3121
	UV block effect body (U)	AAAD2031	AAAD2131	AAAD2231	AAAD3211	AAAD3221
	UV block effect body with vacuum gauge (UG)	AAAD2041	AAAD2141	AAAD2241	AAAD3311	AAAD3321
Internal volume (Litres)		6	10	20	16	25
Gauge range (Mpa)		0 to -0.1				
Nozzle (mm)		9.5				
Max. permissible vacuum (Bodies)		1.33×10^{-4} Mpa (Analog)				
Material	Lid / Bottom	Polycarbonate				
	Body / Base for VDP					
	Perforated sample tray	Polypropylene				
	Drying agent tray / Locker					
	Vacuum seal	Silicone rubber				
Dimensions w x h (mm)		Ø242 x 279	Ø308 x 325	Ø385 x 399	Ø308 x 374	Ø385 x 384
Net weight (Kg)		1.5	2.5	4.2	2.7	4.0

¹⁾ G models come with a vacuum gauge as standard. U models are translucent (amber-coloured) vacuum desiccators with ultraviolet blocking effect.

ACCESSORIES AND OPTIONS



Drying Agent Tray for VDC



Perforated Sample Tray for VDC



Drying Agent Tray for VDR



Perforated Sample Trays for VDR



Flange Locker for VDR



Vacuum Gauge for VDR

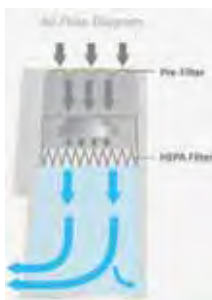


Stopcock for VDR



Vacuum Seal for VDR

- ▮ Clean Benches
- ▮ Ductless Fume Hoods
- ▮ PCR Workstations
- ▮ UV Sterilisation Cabinets
- ▮ Accessories



Air Flow
Clean Benches

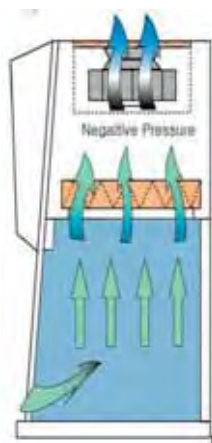
CLEAN BENCHES

Safety Features

- ▮ 2 separated over-current fuses for user safety.
- ▮ Toggle switch provided can be set to either position (UV, off, and fluorescent).
- ▮ Automated UV lamp switches off when window is opened accidentally.
- ▮ Tempered glass sliding sash window.
- ▮ Permanent magnetohelic differential pressure gauge displays across the HEPA filter to check the air changes. (optional)
- ▮ This product uses a 99.99% efficient HEPA filter.

Constructional Features

- ▮ Optimum PWM (pulse width modulation) control performance.
- ▮ As a blower of large enough capacity is adapted, sufficient intake flow rate is maintained and noise is reduced.
- ▮ Dirt-repellent surface.
- ▮ Light and blower switches are within easy reach of the user.
- ▮ Excellent chemical resistance work surface with various organic solvents. User-friendly Control Features.



Air Flow
Ductless Fume Hoods

DUCTLESS FUME HOODS

Constructional Features

- ▮ Front windows part can be seeing though made by transparent front viewing window manufactured from acrylic.
- ▮ Lower stand mounted fixable casters easy for moving & fixing. (optional)
- ▮ Control panel: consist of fluorescent lamp, Fan Start/Stop, Blower speed controller, alarm, menu and etc.
- ▮ Over-current circuit CP (Circuit Protector) for user safety.
- ▮ A built in anemometer provides input air velocity data in real time.

PCR WORKSTATIONS UV STERILISATION CABINETS

Constructional Features

- ▮ Built-in over-current circuit protector for user safety.
- ▮ Intelligent multifunctional digital controller (PW-Models).
- ▮ A fitted prefilter extends the life of the filters. (PW-Models)
- ▮ This product uses a high quality 99.99% efficient supply HEPA filter.
- ▮ Powerful, uniformly distributed, UV-C. (average 8,000 hours)
- ▮ Excellent chemical resistance work surface.
- ▮ Automated UV lamp switch off.



Air Flow
PCR Workstations

Description	Model	Filter	Work Surface
Clean benches	BC-01E	HEPA filter	Stainless steel #304
	BC-11E		
	BC-21E		
Ductless fume hoods	DLH-01G	Six optional filters	Six optional work surfaces
	DLH-11G		
PCR workstations	PW-01	HEPA filter	Acrylic 10 mm (clear type)
	PW-11		
	PW-21		
UV sterilisation cabinets	UVC-01	-	Stainless steel #304
	UVC-11		
	UVC-11		



Pictured with stand (optional)

CLEAN BENCHES

Vertical type laminar flow clean bench

ISO 14644-1 Class 4 air. (formerly Class 10 per Federal Standard 209E) High efficiency HEPA filter, for particles from 0.3 microns. Nominal downflow velocity of 0.3m/s. (60fpm).

Ergonomic 5 degree slope at front for maximum user comfort.

Model		BC-01E	BC-11E	BC-21E
Product code		AAHA4012K	AAHA4022K	AAHA4032K
Air flow type		Vertical		
Air volume (Minimum / Maximum)		274 to 914 cmh / 119 to 399 cfm		
Laminar airflow velocity (m/s)		0.3		
Air cleanliness within working area		ISO 14644-1 Class 4, US Federal Standard 209E Class 10		
Filters	HEPA filter	Typical efficiency of 99.99% at 0.3µm US MIL - STD -282; Micro glass fibre Media, Particle board, AL separator, Neoprene gaskets		
	Pre filter	Polyester fibres with an efficiency of 85% (A-F-I TEST); AL frame, Polyester fibre media		
Noise level		Typically < 67dBA (at initial blower speed)		
Materials	Main body	Stainless steel (grade 304) & Steel powder coating		
	Work surface	Stainless steel (grade 304)		
	Windows (Front / Side)	Colourless and transparent UV absorbing 5mm tempered glass		
Illumination	Intensity (lux)	>1000		
	FL lamp (W)	30W x 2ea electronically ballasted FL Lamp		
	UV lamp (W)	30W electronically ballasted UV Lamp		
Dimensions W X D X H	Internal (mm)	970 x 540 x 570	1270 x 540 x 570	1870 x 540 x 570
	External (mm)	1040 x 630 x 1060	1340 x 630 x 1060	1940 x 630 x 1060
Net weight (Kg)		110	127	163

Class 2 Biological safety cabinets available soon



Pictured with stand (optional)

DUCTLESS FUME HOODS

Ductless Fume Hoods are manufactured and have gone through rigorous international standard safety and QC tests.

Model		DLH-01G	DLH-11G
Product code		AAHB2002K	AAHB2012K
Fume hood type		Ductless	
Permissible environmental condition		Temperature 5° to 40° Maximum relative humidity 80% Altitude up to 2,000m	
Controller		Microprocessor control	
Face velocity		Initial set point: 0.4m/s, 80fpm	
Air flow meter		Swing vane type	
Main filter		Chemical Filter (optional 6 different filters)	
Pre filter		Washable high efficiency nylon filter	
Materials	Main body	2.0mm steel (epoxy powder-coated)	
	Work surface	Optional 6 different work surfaces	
	Window (Front / Side)	Acrylic 8mm / Acrylic 6mm	
Fluorescent light intensity		> 600lux	
Sound emission		55dB (at normal operation)	
Dimensions W X D X H	Internal (mm)	880 x 640 x 800	1180 x 640 x 800
	External (mm)	900 x 660 x 1250	1200 x 660 x 1250
Net weight (Kg)		100	118



PCR WORKSTATIONS

Using a HEPA filter provides an effective particulate-free working space under ambient environment conditions.

Model		PW-01	PW-11	PW-21	
Product code		AAHB3002K	AAHB3012K	AAHB3022K	
Air flow type		Vertical			
Max. air volume (cmh)		557	697	929	
Min. air volume (cmh)		167	209	279	
Laminar airflow velocity (m/s)		0.3			
Filter	Air cleanliness	ISO 14644-1 Class 4			
	HEPA Filter	Typical efficiency of 99.99% at 0.3 μm US MIL -STD -282; Micro glass fibre Media, Particle board, AL separator, Neoprene gaskets			
	Pre filter	Polyester fibres with an efficiency of 85% (A.F.I. TEST); AL frame, Polyester fibre media			
Noise level (dBA)		Typically < 60 dBA at initial blower speed			
Material	Work surface	Acrylic 10mm (clear)			
	Window (Front, Side / Back)	Acrylic 8mm / 10mm (clear)			
Illumination	Intensity	FL lamp (lux)	>1000		
		165 UV Density ($\mu\text{W}/\text{cm}^2$)	165	185	330
	Capacity	FL Lamp	15W x 1	20W x 1	30W x 1
		UV Lamp	15W x 1	20W x 1	30W x 1
Dimensions W x D x H		Internal (mm)	700 x 585 x 602	880 x 585 x 602	1180 x 585 x 602
		External (mm)	720 x 605 x 964	900 x 605 x 964	1200 x 605 x 964
Net weight (Kg)		56.2	64.2	77.8	

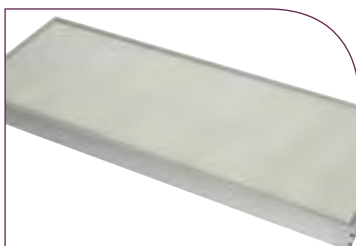


UV STERILISATION CABINETS

A high quality UV lamp with a timer control feature is ideal for sterilising instruments before carrying out sensitive or PCR experiments.

Model			UVC-01	UVC-11	UVC-21
Product code			AAHB4002K	AAHB4012K	AAHB4022K
Illumination	Intensity	FI Lamp (Lux)	>800	>900	>1000
		UV Density (μW / cm²)	150	385	450
	Capacity	FI Lamp	8W x 1	15W x 1	20W x 1
		UV Lamp	8W x 1	15W x 1	20W x 1
Material		Work surface	Stainless steel (grade 304)		
		Window (Front, Back / Side)	Acrylic 5 mm (clear)		
Dimensions W x D x H		Internal (mm)	433 x 500 x 468	583 x 500 x 468	880 x 500 x 468
		External (mm)	450 x 509 x 610	600 x 509 x 610	900 x 509 x 610
Net weight (Kg)			15	17.5	20

ACCESSORIES AND OPTIONS FOR CLEAN BENCHES



HEPA Filter (1 included)



Electric Sockets



Pre Filter (1 included)



Service Fixtures



Basic Stand



Stand with Castors

FOR DUCTLESS FUME HOODS



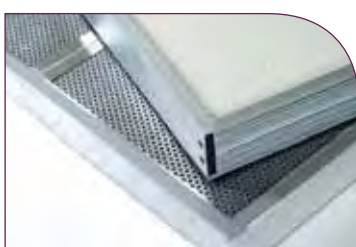
Differential Pressure Gauge



Pre Filter



Gas Detector and Tubes



Filters



Work Surface



Stand with Castors

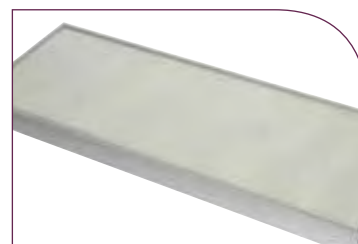
FOR PCR WORKSTATIONS AND UV STERILISATION CABINETS



Fluorescent Lamp



UV Lamp



HEPA Filter (1 included)

HEATING APPARATUS

- ▶ Heating Blocks
- ▶ Mantles
- ▶ Hotplates
- ▶ Becelec Burner
- ▶ Microincinerators
- ▶ Furnaces

Dry block heating systems combine superb temperature control and uniformity with high quality design and great versatility. A premium product range at an affordable price.

- ▶ Accurate, reproducible, rapid and safe dry bath heating of your samples - by virtue of advanced temperature control combined with high quality, precision-engineered blocks which maintain excellent thermal contact

- ▶ Choice of models with interchangeable blocks or with fixed microtube blocks
- ▶ Versatile range of interchangeable heating blocks to fit any sample tube or plate from our standard range of blocks, or custom-made to suit your application

HEATING BLOCKS

The PID controller has a built-in temperature limit setting feature and precise settings for complete accuracy. There is an automatic power cutoff. Our heating blocks offer two types of timer modes:

- ▶ Timer 1: Timer activation starts only after reaching the set temperature.
- ▶ Timer 2: Timer activation starts right after the timer setting.

The bodies are manufactured from highly chemical resistant polypropylene making them also very easy to clean and maintain. Optimal heat transfer is enabled via the tight coupling design of the main body and the corrosion resistant blocks. A transparent lid allows for easy sample monitoring coupled with even heat distribution.



Product code		CHB-350S	CHB-350T
Product code		AAHJ1015K	AAHJ1115K
Control system		Feedback control PID	
Display		VFD(0.1(°C) resolution)	
Temperature	Range (°C)	Ambient +5 to 130	
	Fluctuation at 80°C (±°C)	0.1	
	Variation at 80°C (±°C)	0.2	
Dimensions W x D x H	Internal (mm)	154 x 99 x 37	
	External (mm)	276 x 334 x 120	276 x 334 x 250
Net weight (Kg)		5.1	5.5



Product code	MD 110210	MD 110310	MD 110220
Temperature range (°C)	Amb. +5 to 100		-10 to 100
Time for temp. increasing	≤25 min.(20°C-100°C)		
Time for temp. decreasing			≤25 min. (20°C-100°C)
Temperature accuracy (°C)	≤±0.5		
Mixing speed (RPM)	-	200 to 1500	-
Mixing orbit (mm)	-	2	-
Display resolution	0.1°C		
Uniformity of the block temperature	≤±0.5°C		≤±0.3°C
Temperature-segment	—		2
Dimensions W x D x H (mm)	300 x 220 x 170		
Net weight (Kg)	2.5	7	3



CONTROLLED MANTLES

E-SERIES

The E-series are energy-regulated, all purpose heating mantles. The time proportional double pole system allows stable control of the heating element, reducing the risk of overheating liquids. The dial controller allows accurate temperature settings.

Product code	E-1005	E-101	E-102	E-103	E-104
Volume (ml)	50	100	250	500	1000

Product code	E-105	E-106	E-107	E-108	E-109
Volume (ml)	2000	3000	5000	10,000	20,000



STIRRER MANTLES

ES-SERIES

The ES-series rotamantles feature an integral magnetic stirrer, which is independently regulated. The stirrer speed may be varied from 100 to 1000rpm and the temperature is controlled by an infinity bimetallic thermostat.

Product code	ES 301	ES 302	ES 303	ES 304	ES 305
Volume (ml)	100	250	500	1000	2000

Product code	ES 306	ES 307	ES 308	ES 309
Volume (ml)	3000	5000	10,000	20,000



DIGITAL MANTLES

DM-SERIES

The DM-series features an integral digital temperature controller linked to a sensor probe, which is inserted directly into the flask. The temperature is shown clearly on an LED display and the desired temperature is controlled by a simple push button potentiometer.

Product code	DM-6005	DM-601	DM-602	DM-603	DM-604
Volume (ml)	50	100	250	500	1000

Product code	DM-605	DM-606	DM-607	DM-608	DM-609
Volume (ml)	2000	3000	5000	10000	20000



EXTRACTION MANTLES

EAM-SERIES

Designed for use in distillation, extraction. Each of the three and six place mantles has individual temperature regulation. The support rods and scaffolding are included. The body is made of steel with a chemical resistant coating and the cover with high grade stainless steel.

Product code	EAM-9201-03	EAM-9202-03	EAM-9203-03	EAM-9204-03	EAM-9205-03
Volume (ml)	100ml	250ml	500ml	1000ml	2000ml
Positions	3 places				

Product code	EAM-9201-06	EAM-9202-06	EAM-9203-06	EAM-9204-06	EAM-9205-06
Volume (ml)	100ml	250ml	500ml	1000ml	2000ml
Positions	6 places				



ELECTRIC BURNERS BECELEC

The new Becelec – Electric Burner offers a unique replacement option to conventional gas Bunsen burners. The high power heater combined with a reflective internal stainless steel bowl produces a concentrated stream of heat comparable with that of existing gas-powered Bunsen burners. Supplied with reflective internal stainless steel bowl, wire safety guard, retort stand and clamps.

Product code	BEC2UKSET	BEC2EXSET
Temp range (°C)	37 to 920	
Diameter of heating area (mm)	Ø130	
Power	500 Watt	
Safety indicator	LED	
Plug type	3 pin UK	2 pin EU
Dimensions W x D x H (cm)	31 x 20 x 11cm	
Net weight (Kg)	1.7	



BACTI-CINERATOR STERILISER

The Bacti-cinerator sterilises needles, loops and culture tubes in five to seven seconds at the optimum sterilising temperature of 815.6°C (1500°F).

Ceramic funnel tube enclosed in a stainless-steel (perforated) guard and a stainless-steel support stand.

Product code	BACTI-100
Sterilising temperature (°C)	815.6
Length (mm)	100
Max diameter of sample (mm)	14
Dimensions W x D x H (mm)	130 x 102 x 180
Net weight (Kg)	1.3



MEDLINE MICROINCINERATOR

New safety regulations have meant that Microincinerators are increasingly replacing the traditional Bunsen burners that have long been fundamental to microbiology laboratories. Accordingly, CDC and WHO, recommend these in laboratories instead of Bunsen burners.

When using in biosafety cabinets, contrary to bunsen burners, the filter system is not damaged and the cabinet air flow is not affected.

During operation the exterior surface temperature of the device does not exceed 30°C, allowing handling without heat protective gloves.

- ▶ Suitable for slide fixation, sterilisation of loops and culture tubes.
- ▶ Energy and environmentally-friendly design ensures minimum power consumption
- ▶ Operational angle adjustment of chamber - 270°

Product code	BACTIPRO-500
Energy consumption	0.150 kw/h
Quartz glass tube dimensions	Ø 18 mm, length: 100 mm
Sterilisation temperature	850°C to 1100°C
Time to reach sterilisation temperature	7-9 minutes
Sterilisation duration	2-4 seconds
Dimensions W x D x H (mm)	200 x 300 x 265
Net weight (Kg)	4.2

CHAMBER FURNACES

Our furnaces can be used in quality control tests, ashing, heat treatment, preheating, melting, metallurgical research and sample production. Our products have been produced for heavy duty conditions.

Features:

- ▶ Chamber walls made up of insulating fire bricks against mechanical abrasion and thermal aging and deformation.
- ▶ Half buried heaters in two sides and on top (housed in quartz tubes).
- ▶ Tight door closing mechanism.
- ▶ Modular inner body, replacement and fully renewing the furnace in 30 minutes.
- ▶ Homogeneous temperature gradient in the chamber thanks to similar heat loss in every direction.
- ▶ Optimal insulation thickness to reduce the temperature of the outer surface.
- ▶ Contactless outer shell for low surface temperature.
- ▶ Ergonomic PID control unit placement.
- ▶ Standard chimney with fan.
- ▶ Adjustable foot screw.
- ▶ Optional 1100°C models also available.



Product code	MD1305	MD1307	MD1310	MD1315	MD1320
Volume (Litres)	5.2	7.4	10.4	15	20
Continuous working temperature (°C)	1250				
Temperature Max. (°C)	1300				
Chamber dimensions (mm)	150 x 150 x 230	200 x 160 x 230	250 x 180 x 230	250 x 200 x 300	250 x 200 x 400
Power (W)	2200		3600	4000	4200
I max. (A)	10		16,4	18,2	19,1
Dimensions W x D x H (mm)	480 x 640 x 640	580 x 650 x 650	580 x 650 x 660	580 x 720 x 750	580 x 720 x 800
Net weight (Kg)	60	72	74	109	113

ACCESSORIES AND OPTIONS

HEATING BLOCKS



96 Well Tube Block



50ml Centifuge Tube Block



Centifuge Tube Block

FOR BECELEC BURNER



Flame Gel / SS Plate



Wire Safety Guard



Retort Rod and Clamp Holder

INCUBATORS

- ▮ Heating Incubators
- ▮ Low Temperature Incubators
- ▮ Incubator Shakers
- ▮ CO₂ Incubators
- ▮ Accessories

Safety Features

- ▮ Open door alert:
 - Audible and visible alarms.
 - Automatic power cut off from the heater and the fan if the door is open for more than 5 minutes to minimize heat loss and also to protect the operator.
- ▮ Protection against overheating by automatic power cut off from the heater controller before shutting down the unit.
- ▮ Two separate fuses to protect against over current.

Optimum Control Features

- ▮ Microprocessor PID control.
- ▮ Simple calibration and auto-tuning functions.
- ▮ Built-in digital timer with Delayed ON/OFF function.
- ▮ Timer range: 1 min ~ 99 hr 59 min.
- ▮ Operation mode selection after power interruption: either Automatic Run or Manual Run.
- ▮ Convenient preset function for 3 most commonly used temperature settings.

- ▮ Easy conversion between Celsius and Fahrenheit.
- ▮ Self-diagnostic function identifying errors.
- ▮ Intuitive control panel design based on HMI (Human Machine Interface) system:
 - Bright LED displays as well as splashproof and easy-to-clean keypads.
 - Quick-lock button prevents accidental parameter changes. (for IB, IL, and ILP Models only)
 - Separate power switches for shaker and lamp mechanisms for independent incubation. (IS-971RF Models only)

Constructional Features

- ▮ High-quality 304 grade stainless steel internal chamber and dirt-repellent external surface with powder coating.
- ▮ Perfectly sealed door gasket minimizing heat loss and fully insulated chambers.
- ▮ Adjustable and electropolished stainless steel wire shelves allowing efficient air-flow and easy cleaning. (except for SI and IS Models)

Models	IB	IL	ILP	SI & SIF	IS
General applications	General, Low Temp. & Low Temp. Personal Incubators			Incubated & Refrigerated & Illuminated Shakers	
Antibody testing	•	•	•		
Bacterial research	•		•		
Bacterial suspensions				•	•
Chemical storage	•	•			
Chick embryo studies	•		•		
Clinical science	•	•	•		
Cultivating low temperature microbes and plant cells		•			
Crystallization studies	•	•			
Cultivating thermophilic bacteria	•				
Drying and staining procedures	•	•			
Denaturalizing tests for food	•	•			
Environmental technology (waste water and soil analysis)				•	•
Enzyme digestion studies	•	•			
Extraction procedures				•	•
Fermentation (pharmacy and biotech -dna and enzymes)				•	•
General mixing				•	•
Hematological testing	•	•	•		
Histochemical procedures	•	•			
Measuring cod/ bod		•			
Medical researches. (Diagnostic tests)				•	•
Microbiological determinations	•	•	•		
Microorganism	•	•	•		
Molecular biology				•	•
Organism germs for life science	•	•	•		
Organism pharmacy	•	•	•		
Paraffin embedding	•	•			
Pharmaceutical stability testing		•			
Plasmid purification				•	•
Protein expression in bacteria				•	•
Solubility				•	•
Staining and destaining				•	•
Tissue culturing	•	•	•		



ECONOMY MODELS

Affordable yet exceptionally reliable incubators featuring film type heaters.

Thanks to the film type heaters attached to the inner chamber's external walls, IB-E series incubators are free from noise, vibration, and mechanical troubles.

- ▶ Microprocessor PID controller
- ▶ Digital timer (1 min - 99hrs 59 mins)
- ▶ Intuitive control panel with LED display

Model	IB-01E	IB-11E	IB-21E
Product code	26015	26025	26035
Chamber volume (Litres)	65	150	205
Temperature	Range (°C)	Amb. +3 to 60	
	Fluctuation ¹⁾ at 37°C (±°C)	0.2	0.3
	Variation ¹⁾ at 37°C (±°C)	0.6	0.8
Dimensions W x D x H	Internal (mm)	423 x 355 x 445	500 x 515 x 585
	External (mm)	533 x 475 x 725	595 x 630 x 865
Net weight (Kg)	33	47	57



GENERAL MODELS

Versatile air-jacketed natural convection incubators.

Specially designed for uniform temperature distribution and minimal sample contamination caused by external air intrusion.

- ▶ Microprocessor PID controller
- ▶ Calibration and auto-tuning functions
- ▶ Digital timer (1 min - 99hrs 59 mins)
- ▶ RS-232 interface and Lab Tracer software

Model	IB-05G	IB-15G	IB-25G
Product code	21162	21172	21182
Chamber volume (Litres)	60	102	151
Temperature	Range (°C)	Amb. +5 to 70	
	Fluctuation ¹⁾ at 37°C (±°C)	0.1	0.1
	Variation ¹⁾ at 37°C (±°C)	0.6	0.2
Dimensions W x D x H	Internal (mm)	400 x 360 x 420	480 x 410 x 520
	External (mm)	595 x 555 x 745	675 x 605 x 855
Net weight (Kg)	45	55	62



LOW TEMP. INCUBATORS FORCED CONVECTION MODELS

Superb low temperature incubation performance using a noiseless HBP compressor cooling system which reduces water evaporation within the chambers.

- ▶ Microprocessor PID controller
- ▶ Adjustable 3-step fan speed with defrosting time and period control
- ▶ Digital timer (1min - 99hrs 59mins)
- ▶ RS-232 interface and Lab Tracer software

Model	IL-11	IL-21
Product code	22042	22052
Chamber volume (Litres)	150	244
Refrigerator (Hp)	1/8 HBP	1/6 HBP
Temperature	Range (°C)	0 to 60
	Fluctuation ¹⁾ at 25°C (±°C)	0.1
	Variation ¹⁾ at 25°C (±°C)	0.5
Dimensions W x D x H	Internal (mm)	600 x 500 x 500
	External (mm)	735 x 742 x 1010
Net weight (Kg)	100	135

¹⁾ Technical data according to DIN 12880.

INCUBATORS



LOW TEMP. INCUBATORS

PERSONAL MODELS

Compact, stackable, energy-efficient and exceptionally reliable low temperature incubators using Peltier technology.

- RS-232 interface and Lab Tracer software

Model		ILP-02	ILP-12
Product code		24032	24042
Chamber volume (Litres)		14	48
Temperature	Range (°C)	10 to 40	
	Fluctuation ¹⁾ at 25°C (±°C)	0.1	
	Variation ¹⁾ at 25°C (±°C)	0.5	0.4
Dimensions W x D x H	Internal (mm)	315 x 200 x 230	334 x 334 x 430
	External (mm)	430 x 495 x 400	430 x 665 x 620
Net weight (Kg)		27.5	49



LOW TEMP. INCUBATORS

AIR-JACKETED MODELS

Specially designed for optimal temperature control as well as minimal sample contamination caused by external air intrusion.

- RS-232 interface and Lab Tracer software

Model		IL-11A	IL-21A
Product code		22062	22072
Chamber volume (Litres)		162	254
Refrigerator (Hp)		1/6 HBP	1/4 HBP
Temperature	Range (°C)	+4 to 60	
	Fluctuation ¹⁾ at 25°C (±°C)	0.2	
	Variation ¹⁾ at 25°C (±°C)	0.5	
Dimensions W x D x H	Internal (mm)	600 x 540 x 500	500 x 540 x 940
	External (mm)	770 x 772 x 1060	670 x 760 x 1680
Net weight (Kg)		108	145



LOW TEMP. INCUBATORS

4-CHAMBER MODELS

Featuring four incubation chambers in a single unit, this Low Temperature Incubator is designed to offer an ideal and cost-effective solution for laboratories with limited space and budget.

- RS-232 interface and Lab Tracer software

Model		IL-11-2C	IL-11-4C
Product code		28112	28012
Chamber volume (Litres)		300 (2 Chambers)	600 (4 Chambers)
Refrigerator (Hp)		1/8 HBP	
Temperature	Range (°C)	0 to 60	
	Fluctuation ¹⁾ at 25°C (±°C)	0.1	
	Variation ¹⁾ at 25°C (±°C)	0.5	
Dimensions W x D x H	Internal (mm)	600 x 500 x 500 Per chamber	600 x 500 x 500 Per chamber
	External (mm)	760 x 760 x 1690	1500 x 760 x 1690
Net weight (Kg)		180	350

¹⁾ Technical data according to DIN 12880.



INCUBATED SHAKERS BENCHTOP MODELS

Digital incubating/ refrigerating benchtop shakers.

Combining a benchtop incubator/refrigerator with a dual-action shaking mechanism. The SI series of shaking incubators offer versatility for a variety of biological and biotech applications.

- RS-232 interface and Lab Tracer software

Model		SI-300	SI-300R	SI-600	SI-600R
Product code		23102	23112	23202	23212
Chamber volume (Litres)		53		83	
Temperature	Range (°C)	Amb. +5 to 60	+15 to 60	Amb. +5 to 60	+15 to 60
	Fluctuation ¹⁾ at 37°C (±°C)	0.3	0.6	0.1	0.2
	Variation ¹⁾ at 37°C (±°C)	1.6	1.5	0.7	0.3
	Refrigerator (Hp)	-	1/8 HBP	-	1/8 HBP
Shaking system	Motion type	Orbital or Reciprocating (motion selectable)			
	Speed range (RPM)	10 to 300			
	Timer	Run time: 10 sec to 999 hr 59 min 59 sec Forward & Backward, Pause: 10 sec to 59 min 59 sec			
	Amplitude size (mm, dia.)	20, 30, 40 Available - Standard 30			
	Recip stroke length (mm)				
Dimensions	Platform W x D (mm)	350 x 350		450 x 450	
	Internal W x D x H (mm)	410 x 410 x 320		510 x 510 x 320	
	External W x D x H (mm)	442 x 740 x 622		542 x 850 x 622	
Net weight (Kg)		74	85	91	102



INCUBATED SHAKERS FLOOR STANDING MODELS

Large capacity and heavy workload shaking with rapid heating and cooling performance.

Exclusive drive mechanism delivering years of trouble-free service.

- RS-232 interface and Lab Tracer software

Model		IS-971	IS-971R	IS-971RF
Product code		23306	23322	23352
Chamber volume (Litres)		270		
Temperature	Range (°C)	Amb. +5 to 60	+4 to 60	Amb. -15 to 60
	Fluctuation ¹⁾ at 37°C (±°C)	0.2		
	Variation ¹⁾ at 37°C (±°C)	-	0.8	
	Refrigerator	-	1/6 HBP	1/4 HBP
Shaking system	Motion type	Orbital or Reciprocating (motion selectable)		
	Speed range (RPM)	10 to 300		
	Timer	Run time: 10 sec to 999 hr 59 min 59 sec Forward & Backward, Pause: 10 sec to 59 min 59 sec		
	Amplitude size (mm, dia.)	30, 40, 50, 60, 70 Available - Standard 30		
	Recip stroke length (mm)			
Dimensions	Platform W x D (mm)	755 x 481		
	Internal W x D x H (mm)	894 x 634 x 480		
	External W x D x H (mm)	1132 x 810 x 1045		1132 x 810 x 1075
Net weight (Kg)		180	195	210

1) Technical data according to DIN 12880.

INCUBATORS

INCUBATED SHAKERS CHAMBER MODELS

Specially designed to be double-stacked on the floor or located on/ under the lab benches for space saving.

Multi-purpose incubated shakers featuring a wide range of temperature control and large chamber volume.

- RS-232 interface and Lab Tracer software



Model		SIF-5000	SIF-5000R	SIF-6000	SIF-6000R
Product code		27022	27122	27012	27112
Chamber volume (Litres)		80		150	
Temperature ¹⁾	Range (°C)	Amb.+5 to 80	Amb.-20 to 80	Amb.+5 to 80	Amb.-20 to 80
	Fluctuation ¹⁾ at 37°C (±°C)	0.1			
	Variation ¹⁾ at 37°C (±°C)	1			
	Refrigerator (Hp)	-	1/8Hp, HBP	-	1/6Hp, HBP
Shaking system	Motion type	Orbital or Reciprocating motion (Default: Orbital motion)			
	Speed range (RPM)	10 to 300 (Stackable Top: 10 to 250)			
	Timer	Run time (10sec to 999hr 59min 59sec) Pause, Forward, Backward (10sec to 59min 59sec)			
	Amplitude size (mm, dia.) Recip stroke length (mm)	19, 25 Available - Standard 19		25, 38 Available - Standard 25	
Shelves (Standard / Max)		2 / 8		2 / 11	
Dimensions	Platform W x D (mm)	350 x 350		450 x 450	
	Internal W x D x H (mm)	440 x 440 x 418		540 x 540 x 518	
	External W x D x H (mm)	570 x 815 x 900		670 x 895 x 980	
Net weight (Kg)		120	130	140	150

¹⁾ Technical data according to DIN 12880.



CO₂ INCUBATORS

Polished stainless steel chamber, semicircular arced at corners for easy cleaning, and the space between the shelves in the chamber is adjustable. Door temperature controller effectively prevents condensation on the glass door.

Product code		MD080	MD150	MD240
Chamber volume (Litres)		80	155	240
Heating method		Air-jacketed, PID Control		
Temp. range (°C)		Amb. +5 to 55		
Amb. temperature (°C)		Amb. +5 to 30		
Temp. stability (°C)		±0.1		
CO ₂ Range		0 to 20%		
CO ₂ Control resolution		±0.1% (IR sensor)		
CO ₂ Recovery		Door open 30s, recovery to 5% ≤3min		
Temp.recovery		Door open 30s, recovery to 37°C ≤8min		
Power consumption (W)		500	750	950
Humidity method		Natural evaporation >95%		
Shelves		2 pcs	3 pcs	3 pcs
Dimensions	Internal W x D x H (mm)	400 x 450 x 500	480 x 530 x 610	600 x 630 x 670
	External W x D x H (mm)	590 x 687 x 790	670 x 767 x 880	788 x 837 x 940
Net weight (Kg)		65	80	105

ACCESSORIES AND OPTIONS FOR INCUBATORS



Wire Shelves

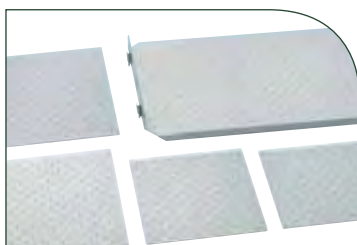


Perforated Shelves



Stacking Kits

FOR INCUBATED SHAKERS



Universal Platforms



Universal Attachments



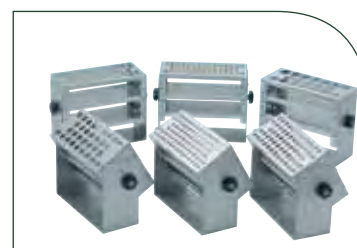
Spring Wire Racks



Microplate Holders



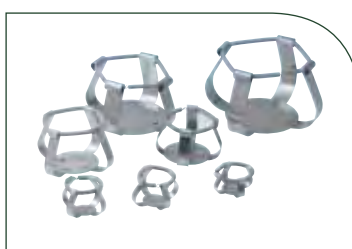
Lab Sticker



Test Tube Racks



Funnel Clamps



Flask Clamps



Plastic Clamps

FOR CO₂ INCUBATORS



CO₂ Pressure Valve



Stainless Steel Shelves



Humidity Display Interface

These instruments are designed for fast and accurate measurement of melting points. A membrane key pad allows easy setting of the desired start temperature and heating ramp rates. The user friendly LCD display advises both the temperature and the specific stage of operation.

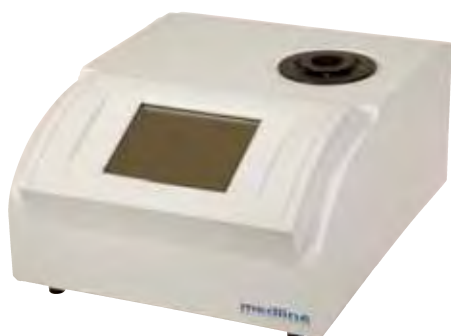
When measurements of melt are being made, the temperatures may be stored in the instrument's memory, by simply pressing the storage buttons. Once the heating cycle is completed, an integral air pump quickly cools the heating block so that the next series of tests can be commenced promptly.



MD300C

- Photoelectric test
- LCD display
- RS-232
- Real time melting curve

Product code	MD 300C
Measurement range: room temperature (°C)	Amb to +300
Minimum digital display (°C)	0.1
Size of the capillary (mm)	Ø1.4 (outside) Ø1.0 (inside) Length: 80
Loading height of the sample (mm)	3
Linear heating-up rate	5°C/min
Accuracy	<200°C: ±0.5°C 200-300°C: ±0.8°C
Dimensions W x D x H (mm)	510 x 380 x 360
Net weight (Kg)	11



MD400C

- Use PID & PWM to control the temperature
- Automatically records the melting curve
- 3 samples can be measured at the same time and calculate the average value of initial and final melting points automatically
- Touch screen
- USB and RS232

Product code	MD 400C
Measurement range: room temperature (°C)	Amb to +400
Minimum digital display (°C)	0.1
Size of the capillary (mm)	Ø1.4 (outside) Ø1.0 (inside) Length: 80
Loading height of the sample (mm)	3
Linear heating-up rate	0.1°C to 20°C/min
Accuracy	<200°C: ±0.5°C >200°C: ±0.8°C
Dimensions W x D x H (mm)	440 x 490 x 320
Net weight (Kg)	11.5

MICROSCOPES

- ▶ Educational Microscopes
- ▶ Compound Microscopes
- ▶ Stereo Microscopes
- ▶ Inverted Microscopes
- ▶ Industrial Microscopes
- ▶ Image Capture & Analysis Solutions
- ▶ Accessories

M



The CETI Microscope range offers an extensive choice of affordable microscopes to suit all budgets. From basic educational needs to the more specialised

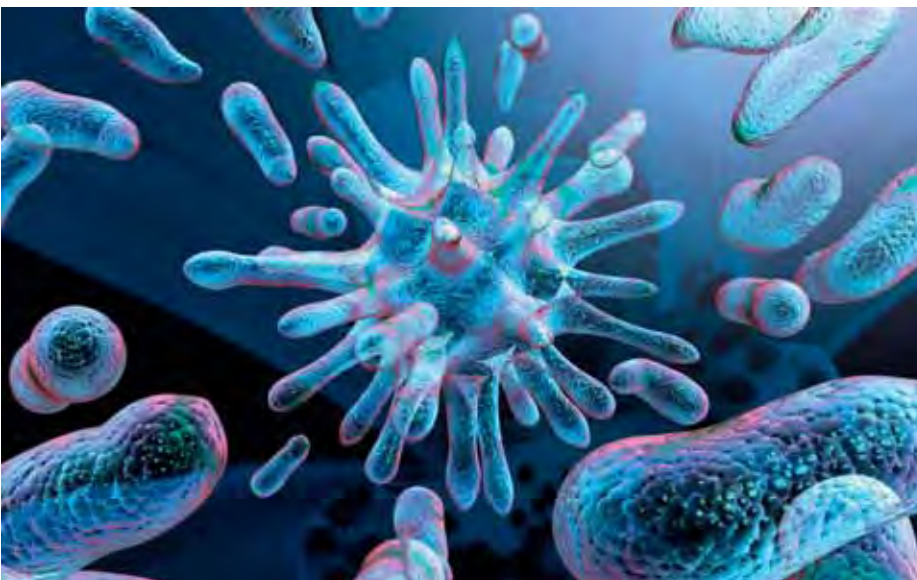
requirements of the research and clinical scientist, we have the perfect solution.

Our range includes monocular, binocular or trinocular configurations to suit most typical applications and requirements. These use brightfield, phase contrast, darkfield, polarisation, DIC or fluorescent light techniques and are supplied with optics ranging from Achromatic to infinity corrected Planachromatic objectives, depending on the model.

All CETI microscopes are manufactured to the highest specification demanded by the relevant application.

Each microscope has its own unique product code, with 10x eyepieces, objectives, a dust cover and power lead as standard and an extensive range of accessories available to complement each model. This ensures that the ordering process is simplified and a complete working unit is delivered, easily unpacked and rapidly set up for operation upon arrival. The units are shipped in robust Styrofoam packaging in a sturdy cardboard outer case.

All the units are supplied with DIN* (*Deutsche Industrie Normen – an internationally recognised industry standard for microscope objectives) antifungal optics. They are manufactured to ISO 9002 standards and are fully CE compliant. The objectives range from basic Achromatic on the entry level microscopes up to Planachromatic infinity corrected on the most advanced models. The mid range models have the option of a choice of objective quality.





FOCUS II

A modern school and college student microscope with a built-in carrying handle.

Product code	1100.4000	1100.4400	1100.4440
Optical head	Monocular		
Nosepiece	Triple		Quadruple
Eyepiece	10x/18mm wide-field with pointer, mounted student proof		
Objectives	4x, 10x, 40x Achromatic		4x, 10x, 40x, 100x Achromatic
Condenser	Brightfield Abbe – NA 1.25		
Stage	Size 120 x 120mm with built-in condenser (N.A. 0.65)		
Focusing	Coaxial coarse and fine		
Illumination (Variable)	Halogen 20W	LED	Halogen 20W



DIGI FOCUS II

Educational compound microscope with integrated digital camera.

Product code	1100.4600
Optical head	Monocular
Eyepiece	10x/18mm wide-field with pointer, mounted student proof
Objectives	4x, 10x, 40x Achromatic
Condenser	Brightfield Abbe – NA 1.25
Stage	Size 120 x 120mm with built-in condenser (N.A. 0.65)
Focusing	Coaxial coarse and fine
Illumination (Variable)	Halogen 20W
Camera	Integral 1.3 Mpx



COLT

These models are available in monocular, binocular or trinocular configuration with a quadruple nose piece. This is an excellent and robust microscope, ideal for teaching purposes, and also extensively used in remote, field-based laboratories.

Product code	1100.5160	1100.5111	1100.5162	1100.5101	1100.5103
Optical head	Monocular		Binocular		Trinocular
Eyepiece	10x/18mm wide-field				
Objectives	4x, 10x, 40x, 60x Achromatic	4x, 10x, 40x, 100x Achromatic	4x, 10x, 40x, 60x Achromatic	4x, 10x, 40x, 100x Achromatic	
Condenser	Abbe condenser with iris diaphragm				
Stage	Size 110 x 120mm with built-in mechanical stage				
Focusing	Coaxial coarse and fine				
Illumination (Variable)	Halogen 15W				



AKROPOL

The Akropol is designed to introduce polarisation techniques, whilst allowing for the measurement of the degree of rotation that the sample induces.

Product code	1111.2441	1111.2442	1111.2443	1111.2444	1111.2445
Optical head	Monocular		Binocular		Trinocular
Eyepiece	High eye point 10x/16mm wide-field				
Objectives	4x, 10x, 40x, 60x Achromatic	4x, 10x, 40x, 100x Achromatic		4x, 10x, 40x, 60x Achromatic	4x, 10x, 40x, 100x Achromatic
Condenser	Brightfield Abbe – NA 1.25				
Stage	Round centrable and rotating stage 360°				
Focusing	Coaxial coarse and fine				
Illumination (Variable)	Halogen 20W				



MAX II MONOCULAR

Max II microscopes are a cost-effective option and are perfect for pre and post-graduate teaching laboratories. Ideally suited to routine, bench-top microscopy work for general purpose slide examinations where prolonged usage is not the norm. They are designed and manufactured to the latest demanding specifications and provide a thoughtfully-designed ergonomic solution, with a quadruple nose piece and a 360° rotatable head, whilst being compact enough to allow for storage and handling between different locations within a teaching environment.

Product code	1201.4000	1201.4060
Optical head	Monocular, inclined at 45°	
Eyepiece	10x/18mm wide-field	
Objectives	4x, 10x, 40x, 100x Achromatic	4x, 10x, 40x, 60x Achromatic
Condenser	Brightfield Abbe – NA 1.25 - precentred	
Stage	Size 140 x 140mm, built-in mechanical stage	
Focusing	Coaxial course and fine	
Illumination (Variable)	Halogen 20W	



MAX II BINOCULAR

The binocular version of the Max series with a choice of objectives types and LED illumination if preferred, optical heads 360° rotatable.

Product code	1202.4030	1202.4000	1202.4060	1202.3000	1202.3500	1202.3700
Optical head	Binocular, inclined at 30°	Binocular, inclined at 45°				
Eyepiece	10x/18mm wide-field					
Objectives	4x, 10x, 40x, 100x		4x, 10x, 40x, 60x	4x, 10x, 40x, 100x		
	Achromatic				Planachromatic	Plan. ∞
Condenser	Brightfield Abbe – NA 1.25 - precentred					
Stage	Size 140 x 140mm, built-in mechanical stage					
Focusing	Coaxial course and fine					
Illumination (Variable)	Halogen 20W			LED	Halogen 20W	



MAX II TRINOCULAR

The trinocular variant of the Max II microscope that allows for the attachment of a digital camera for recording and capturing images, connected via a C mount fitting.

Product code	1202.5000	1202.5500
Optical head	Trinocular, inclined at 30°	
Eyepiece	10x/18mm wide-field	
Objectives	4x, 10x, 40x, 100x Achromatic	4x, 10x, 40x, 100x Planachromatic
Condenser	Brightfield Abbe – NA 1.25 - precentred	
Stage	Size 140 x 140mm, built-in mechanical stage	
Focusing	Coaxial course and fine	
Illumination (Variable)	Halogen 20W	

DIGI MAX II

A dedicated digital-camera microscope using a digital USB camera and advanced software to allow for image capture and analysis.

Product code	1202.8000	1202.7000	1202.9000	1202.6000
Optical head	Trinocular, inclined at 30°		Binocular, inclined at 30°	
Eyepiece	10x/18mm wide-field			
Objectives	4x, 10x, 40x, 100x Achromatic			
Condenser	Brightfield Abbe – NA 1.25 - precentred			
Stage	Size 140 x 140mm, built-in mechanical stage			
Focusing	Coaxial course and fine			
Illumination (Variable)	Halogen 20W			
Camera	Si-3000	Integral 1.3 Mpx	Integral 3 Mpx with LCD screen	Integral 2 Mpx with LCD touch screen



MAGNUM BINOCULAR

The entry level Magnum has Semi Planachromatic objectives with a quintuple nose piece. Ideal for routine use in general QC conditions and for routine examinations of slide mounted samples.



Product code	2621.0000	2622.0000	2638.0000	2653.0000
Optical head	Binocular, inclined at 30°			
Eyepiece	10x / 20mm wide field			
Objectives	4x, 10x, 40x, 100x Semi Planachromatic	4x, 10x, 40x, 100x Planachromatic	10x, 20x, 40x, 100x Phase contrast	4x, 10x, 40x, 60x Polarisation
Condenser	Brightfield Abbe – NA 0.90 – NA1.25 oil		Phase contrast 5 position turret	Brightfield Abbe – NA 0.90 – NA1.25 oil
Stage	Size 210 x 140mm with built-in mechanical stage and slide clip			180mm circular rotatable 360°
Focusing	Coaxial coarse and fine			
Illumination (Variable)	Halogen 30W			

MAGNUM TRINOCULAR

This model is supplied complete with a dedicated phase contrast turret based system which has 4 phase rings and a brightfield viewing position. The objective turret is a sextuple unit with two free spaces to allow for the inclusion of additional objectives.



Product code	2721.0000	2722.0000	2738.0000	2753.0000
Optical head	Trinocular, inclined at 30°			
Eyepiece	10x / 20mm wide field			
Objectives	4x, 10x, 40x, 100x Semi Planachromatic	4x, 10x, 40x, 100x Planachromatic	10x, 20x, 40x, 100x Phase contrast	4x, 10x, 40x, 60x Polarisation
Condenser	Brightfield Abbe – NA 0.90 – NA1.25 oil		Phase contrast 5 position turret	Brightfield Abbe – NA 0.90 – NA1.25 oil
Stage	Size 210 x 140mm with built-in mechanical stage and slide clip			180mm circular rotatable 360°
Focusing	Coaxial coarse and fine			
Illumination (Variable)	Halogen 30W			

MAGNUM B LED

The Magnum LED is a rechargeable microscope that utilises an LED light source equivalent to a 20W halogen bulb. The unit is ideal where power supplies are intermittent or where a portable field microscope is required. The battery life is approximately 6 hours.



Product code	2621.7000
Optical head	Binocular, inclined at 30°
Eyepiece	10x / 20mm wide field
Objectives	4x, 10x, 40x, 100x Semi Planachromatic
Condenser	Brightfield Abbe – NA 0.90 – NA1.25 oil
Stage	Size 210 x 140mm with built-in mechanical stage and slide clip
Focusing	Coaxial coarse and fine
Illumination (Variable)	LED

MAGNUM INFINITY

The ultimate Magnum microscope for brightfield viewing with infinity corrected optics to allow for the switching of objectives without the need to re-focus each time a different objective is selected.



Product code	2629.0000	2729.0000
Optical head	Binocular, inclined at 30°	Trinocular, inclined at 30°
Eyepiece	10x / 20mm wide field	
Objectives	4x, 10x, 40x, 100x Planachromatic Infinity Corrected	
Condenser	Brightfield Abbe – NA 0.90 – NA1.25 oil	
Stage	Size 210 x 140mm with built-in mechanical stage and slide clip	
Focusing	Coaxial coarse and fine	
Illumination (Variable)	Halogen 30W	



MAGNUM FLUORESCENCE

Designed for both brightfield viewing and the fluorescent examination of samples. The unit comes with a turret based fluorescence system with four built in filter blocks as standard and a 5th brightfield viewing position. The fluorescent light source is from a 100W Mercury bulb.

Product code		2747.2000	2777.0000
Optical head		Trinocular, inclined at 30°	
Eyepiece		10x / 20mm wide field	
Objectives		4x, 10x, 40x, 100x Planachromatic Infinity Corrected	
Condenser		Brightfield Abbe – NA 0.90 – NA1.25 oil	
Stage		Size 210 x 140mm with built-in mechanical stage and slide clip	
Focusing		Coaxial coarse and fine	
Illumination (Variable)	Transmitted	Halogen 30W	
	Reflected	HBO 100W	LED
Fluorescent filters		Blue / Green / Ultraviolet / Violet	

TRITON II

The Triton II series represents the pinnacle of compound microscopy in the CETI range and is ideal for clinical applications with its variety of lighting options.



Product code	3100.5000	3100.5050	3100.5150
Optical head	Trinocular, fixed at 30°	Trinocular, variable 0-45°	
Eyepiece	10x/22mm wide-field (pair)		
Objectives	4x, 10x, 40x, 100x E-plan Planachromatic Infinity Corrected		
Condenser	Swing-out condensing lens – Brightfield NA 1.25		
Stage	Size 185 x 142mm with built-in mechanical stage and slide clip		
Focusing	Coaxial coarse and fine		
Köhler Illumination (Variable)	Halogen 50W		Halogen 100W

TRITON II FLUORESCENCE

A dedicated fluorescent module enables identification of both Brightfield and Fluorescent applications. The camera port is now mounted on the left hand side to accommodate the HBO light source.



Product code		3100.7000	3100.8000
Optical head		Trinocular, variable 0-45°	
Eyepiece		10x/22mm wide-field (pair)	
Objectives		20x, 40x, 100x E-plan Planachromatic Infinity Corrected	
Condenser		Swing-out condensing lens – Brightfield NA 1.25	
Stage		Size 185 x 142mm with built-in mechanical stage and slide clip	
Focusing		Coaxial coarse and fine	
Köhler Illumination (Variable)	Transmitted	Halogen 100W	
	Reflected	HBO 100W	LED
Fluorescent filters		Blue / Green	

TRITON II MULTI-OBSERVATION

Supplied with 100W illumination as standard to ensure that there is a bright field of view in each viewing head. The master head is ergonomic and includes a laser pointer, allowing for the selection of designated samples for viewing within the teaching heads.



Product code		3100.9050	3100.9100	3100.9200	3100.9500
Optical head		Trinocular Ergonomic 0-45°			
Additional number of optical heads*		1	2	3	4
Eyepiece		10x/22mm wide-field (pair)			
Objectives		4x, 10x, 40x, 100x E-plan Planachromatic Infinity Corrected			
Condenser		Swing-out condensing lens – Brightfield NA 1.25			
Stage		Size 185 x 142mm with built-in mechanical stage and slide clip			
Focusing		Coaxial coarse and fine			
Köhler Illumination (Variable)		Halogen 100W			

* Fixed at 30°



STAR

The Star is a stereo microscope which is designed for both educational and professional use. It is particularly well suited to viewing specimens at low magnifications and introduces the benefits of LED lighting into the stereo range of microscopes. The diamond shaped base with sloping sides provides an ergonomic hand rest during sample manipulation to ensure maximum control.

Product code	1800.1000
Optical head	Binocular, inclined at 45°
Eyepieces	10x/20mm wide-field
Magnification	20x and 40x
Focusing	Fixed. Rack and pinion system with safety stop
Stage	Frosted and black / white contrast plates. 2 stage clips
Illumination (Variable)	Episcopic: 3W LED Diascopic: 3W LED



STEDDY

The Steddy stereoscopic zoom microscope features dual LED illumination, a single, sturdy column focusing unit and a choice of base shapes. The diamond shaped base allows the hands to be rested on the base of the unit providing the necessary support for delicate operation or manipulation of the sample during examination. The alternative, broad based unit offers a greater surface area for examination of larger samples.

Product code	7500.0000	7500.9000	7600.0000
Optical head	Trinocular, Inclined at 45° with photo port		Binocular, with integrated 3Mpx digital USB camera
Eyepieces	10x/22mm super wide-field		
Magnification*	6.5x to 45x		
Focusing	Zoom system. Rack and pinion system with safety stop		
Stage	Diamond shaped	Broad base design	Diamond shaped
	Supplied with frosted and black/white contrast plates, 2 stage clips		
Illumination (Variable)	Episcopic: 2W LED with directional condensing lens Diascopic: 5W LED		

*Additional eyepieces and condensing lenses available to increase or decrease the total magnification range



VARIZOOM

The Varizoom is a stereoscopic zoom microscope with parallel infinity optics and an optical zoom system. Three zoom ranges are available with a binocular configuration as standard and an optional trinocular beam splitter module to allow for camera attachments.

Product code	7700.0006	7700.0008	7700.0000	7700.1008
Optical head	Binocular, inclined at 20°			Trinocular, inclined at 20° with integrated 2Mpx digital camera and 8.4" TFT touch screen monitor.
Eyepieces	10x/22mm super wide-field			
Magnification	8x to 48x	8x to 64x	8x to 80x	8x to 64x
Focusing	Zoom system. Rack and pinion system with safety stop			
Stage	Broad base design, supplied with frosted and black/white contrast plates, 2 stage clips			
Illumination (Variable)	Episcopic: 5W LED with directional condensing lens Diascopic: 5W LED			

VARIZOOM LED FLUORESCENCE

Fluorescent stereo microscope achieves fluorescence observation of living cells and is widely used in biology, industrial inspection, forensics, etc. It is also an essential tool for fluorescence inspection of security printing and an ideal instrument for mineral research.



Product code	7700.8000
Optical head	Binocular head 20° inclined
Eyepiece	10x/22mm super wide-field
Magnification	8x to 64x
Focusing	Zoom system. Rack and pinion system with safety stop
Stage	Broad base design, supplied with frosted and black/white contrast plates, 2 stage clips
Illumination (Variable)	Episcopic: 5W LED with directional condensing lens Diascopic: 5W LED
Fluorescence	100W Ultra high voltage spherical mercury lamp
Fluorescent filters	GFP and GFP-L



EXPLORER 50

This is a small hand held portable Inverted biological microscope, designed for environmental field studies of water born micro-organisms, factory effluent or pollen and spores. Simple performance with definition optics.

Product code	1300.5000
Optical head	Monocular, inclined at 45°
Eyepieces	10x / 18mm wide-field
Objectives	4x, 10x, 40x Achromatic
Condenser	Brightfield Abbe / Phase
Focusing	Height adjustable system (2.6mm)
Stage	Size 57 x 44mm with two stage clips
Illumination (Variable)	LED (powered by 2x AA batteries)



INVERSO TC

An inverted microscope for both routine and research level work, complete with a trinocular head, quadruple position nosepiece and a beam splitting prism for optimizing the halogen illumination. The long working distance objectives and selection of eyepieces provide a magnification range from 40x up to 800x.

The stage features a removable microplate holder with XY movement and the swing-out condenser allows tissue culture flasks up to 70mm thick to be viewed with ease.

Product code	3650.0000
Optical head	Trinocular, inclined at 30° (Siedentopf)
Eyepieces	10x / 18mm wide-field
Objectives	10x, 25x, 40x Planachromatic LWD / 10x, 25x, 40x, Phase contrast
Condenser	Swing Out – LWD N.A. 0.40
Focusing	Coaxial course and fine
Stage	Size 220 x 220mm, built-in mechanical stage (2 interchangeable stage plates)
Illumination (Variable)	Halogen 30W



INVERSO TC-FLUORESCENCE

Based on the Inverso, this microscope has a 30W halogen illumination and external fluorescent light (HBO 100W).

It is supplied complete with two sliding filter holders, one containing the blue and green filter blocks, the other the violet and UV filter blocks. Objectives consist of 10x, 25x, and 40x for both brightfield and fluorescent viewing, plus 10x, 25x, and 40x for phase contrast with the corresponding annular rings.

Product code		3700.0000
Optical head		Trinocular, inclined at 45° (Siedentopf)
Eyepieces		10x / 22mm wide-field
Objectives		10x, 25x, 40x Planachromatic LWD / 10x, 25x, 40x, Phase contrast
Condenser		Swing Out – LWD N.A. 0.40
Stage		Size 220 x 220mm, built-in mechanical stage (2 interchangeable stage plates)
Focusing		Coaxial course and fine
Illumination (Variable)	Transmitted	Halogen 30W
	Reflected	Mercury - HBO 100W
Fluorescent filters		Blue / Green / Ultraviolet / Violet



INVERSO TC-100

The Inverso TC100 is ideal for the typical working laboratory and is built to a high quality specification. It is robust enough to withstand the rigours of constant daily use and is ideal for multiple usage as there is no manual adjustment required. With a quintuple position nosepiece fitted as standard it is ideally suited for multiple observation techniques and / or magnifications.

Product code	3660.5000
Optical head	Trinocular, inclined at 45° (Siedentopf)
Eyepieces	10x / 22mm wide-field
Objectives	4x, 40x Planachromatic LWD / 10x, 20x, 40x, Phase contrast
Condenser	N.A.0.3 (removable) - working distance: 72mm
Stage	Size 160x250mm with additional mechanical stage (2 interchangeable stage plates) Stage extending board
Focusing	Coaxial course and fine
Illumination (Variable)	Halogen 30W



INVERSO TC-100 FLUORESCENCE

With an additional external fluorescent light source and power supply (HBO 100W). This microscope is supplied complete with two sliding filter holders, one containing the blue and green filter blocks.

Product code		3660.8000
Optical head		Trinocular, inclined at 45° (Siedentopf)
Eyepieces		10x / 22mm wide-field
Objectives		4x, 40x Planachromatic LWD / 10x, 20x, 40x, Phase contrast
Condenser		N.A.0.3 (removable) - working distance: 72mm
Stage		Size 160 x 250mm with additional mechanical stage (2 interchangeable stage plates) Stage extending board
Focusing		Coaxial course and fine
Illumination (Variable)	Transmitted	Halogen 30W
	Reflected	Mercury - HBO 100W
Fluorescent filters		Blue / Green

METEX

High performance infinity corrected optical system with exceptional stability and intense illumination, this inverted microscope with DIC observation ensures full detailed examinations .



Product code	3660.6000
Optical head	Binocular, inclined at 30° (Siedentopf)
Eyepieces	10x / 22mm wide-field and 10x / 20mm (with cross hair scale)
Objectives	5x, 10x, 20x, 50x, 100x Planachromatic LWD (BF / DF)
Condenser	N/A
Stage	Size 226x178mm double layer mechanical stage (3 interchangeable stage plates)
Focusing	Coaxial course and fine
Illumination (Variable)	Halogen 50W (Köhler) / Polarizer & analyser / DIC

FEROX

A reflected light microscope which is ideal for geological and engineering applications. The rear facing external lamp housing protects both subject and user from adverse heating effects.



Product code	6322.0000
Optical head	Trinocular, inclined at 30° (Siedentopf)
Eyepieces	10x/18mm wide-field
Objectives	4x, 10x, 40x, 100x Planachromatic
Stage	Size 150 x 180 mm with built-in mechanical stage (2 interchangeable stage plates)
Focusing	Coaxial coarse and fine
Illumination (Variable)	Halogen 20W (external housing with condensing lens)

MAGTEX

Using both transmitted and reflected light illumination enables the examination of both translucent and opaque materials. It is ideal for biological, geological and engineering applications.



Product code	2763.0000	2783.0000
Optical head	Trinocular, inclined at 30° (Siedentopf)	
Eyepieces	10x/18mm wide-field.	
Objectives	5x, 10x, 20x, 50x Planachromatic (CCS Optics)	4x, 10x 40x, 60x Planachromatic tension free and parcentered.
Condenser	Brightfield Abbe - NA 1.25	
Stage	Size 210x140mm with built-in mechanical stage	180mm round polarisation stage. Centrable and rotating 360°
Focusing	Coaxial coarse and fine	
Illumination (Variable)	Transmitted	Halogen 30W
	Reflected	Halogen 30W

TRITEX

The Tritex II is fully equipped to allow for the evaluation of samples in materials science. The microscope is supplied with both transmitted and reflected light sources and has in addition darkfield objectives which allow for the examination of highly reflective samples.



Product code	3100.6000	3100.9000
Optical head	Trinocular, inclined at 30° (Siedentopf)	
Eyepieces	10x/22mm wide-field pair	
Objectives	5x, 40x, 50x, 100x Infinity Corrected 10x, 20x, Infinite Planachromatic (BF/DF)	40x, 100x Infinity Corrected 5x, 10x, 20x, 50x, 100x Planachromatic (BF/DF) 20x, 100x DIC
Condenser	Aspherical (Incident light)	
	Swing-out condensing lens – NA 0.90 / NA 1.25 with aspherical condenser	
Stage	Size 186x138mm with built-in graduated non-porous double layer mechanical stage	
Focusing	Coaxial coarse and fine	
Illumination (Variable)	Transmitted	Köhler - Halogen 100W
	Reflected	Halogen 100W

MEDLINE IMAGING SYSTEMS

There are a wide range of camera systems available which complement our extensive microscope range. Images can either be simply captured or additional detailed analysis can be performed, depending on the operation required.

In addition, the cameras range from simple, low megapixel units to more sophisticated options. The cameras use either standard USB connection or, for the more sophisticated units, firewire connection with peltier cooling.

PORTABLE MICROSCOPE CAMERAS / MAGNIFIERS

Designed to provide the very highest versatility and adaptability, combined with Canon camera technology and over 10 megapixel features, the fast image capturing meets the requirements of professional with outstanding illumination technology.

- ▶ Three in one device ideal forensic analysis
- ▶ Adaptability and portability
- ▶ High precision illumination with customized lenses also available
- ▶ Blue and UV illumination systems also available

Model	A500	C101	G20
Product code	9555.6000	9555.7000	9555.8000
Pixels	10+ Mpx		
Magnification	60x, 100x to 150x	30x, 80x to 160x	60x, 150x to 300x
Illumination	White light LED (8)		White light LED (16)
Field of view	60x : 16 x 12mm	—	60x : 8 x 10.5mm
	100x : 9 x 6.5mm	80x : 12.9 x 9.6mm	150x : 4 x 3mm
	150x : 5.7 x 4.5mm	160x : 4.5 x 3.5mm	300x : 2 x 1.5mm



DIGITAL USB CAMERAS

These are supplied with eyepiece adaptors' to fit into an eyepiece tube once they are removed. The adaptors can be used with different diameter eyepieces. Simple software then allows for image capture.

Product code	9554.1200	9554.1300	9554.3000	9554.5000	9554.9000
Sensor size	1/3"	1/2"	1/2.2"	1/2.5"	1/2.3"
Pixel size	8 µm x 8 µm	3.2 µm x 3.2 µm	2.2 µm x 2.2 µm	1.75 µm x 1.75 µm	1.75 µm x 1.75 µm
Sensitivity (v/lux -sec)	1.8	1.5	1.2	1.3	1.4
Max resolution (Hardware)	1280 x 1024 1.3M pixels	2048 x 1536 3M pixels	2592 x 1944 5M pixels	3264 x 2448 8M pixels	3488 x 2616 9M pixels
Exposure	ERS (Electronic Rolling Snap)				
White balance	Automatic / Advanced Manual				
Auto-exposure	Automatic / Advanced Manual				
Image output	USB 2.0				
Programmable control	Image size, exposure time, brightness, gain, gamma correction, colour, contrast, saturation				
Accessories included	2 adaptors (23.2 to 30, 23.2 to 30.50, one each) TS-M1 stage micrometer available at extra cost				
Output data	RGB24, Direct Show and Twain interface				
Software	Driver: support Direct Show and Twain Image software: MiniSee				





HIGH PERFORMANCE CMOS CAMERAS

Digital Clarity™ sensor technology ensures delivery of high quality, crystal clear images at all times.

This breakthrough in CMOS imaging technology can achieve CCD performance based on signal to noise ratio and low light sensitivity.

The Si 3000 digital camera, uses the latest 1/2" sensor technology and provides a frame rate up to 12 fps @ 2048 x 1536 pixels and 25 fps @ 1024 x 767. This ensures a smooth image at all times.

This has major advantages when scanning slides under a compound microscope, as it allows the user to view the image more clearly whilst moving the slide, thus reducing errors and improving productivity.

- High performance 3 Mpx camera developed for microscopy
- 1/2" 2048 x 1536 (QXGA) image array and on-chip converter

- Up to 27 frames per second
- Full resolution and 40fpsat XGA (1024 x 768) resolution
- Sensitivity 1.0 V/Lux-sec
- Complete with USB cable and image analysis software
- Tripod fixing thread
- Optical black level calibration
- Progressive scan



Model	Si-3000
Product code	9556.3000
Pixels	3 Mpx
Frame rate (max)	27 Fps
Sensitivity (v/lux -sec)	1.0
Image input	USB 2.0



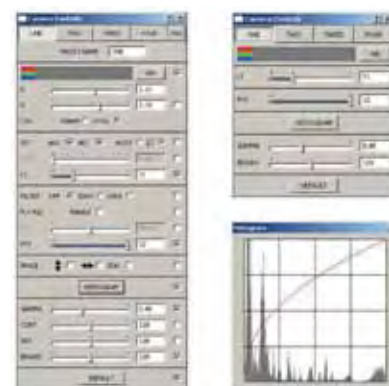
The all new Si-5000 Extended dynamic range 5 Megapixel USB2.0 colour camera has been designed to meet the demanding needs of professionals in the field of scientific imaging and microscopy.

The digital image is processed in 10 bit to expand the dynamic range and increase the signal to noise performance. Compression takes place within the PC to output the data into the standard format RGB24.

The advanced camera control panel offers simplicity and the benefit of storing 4 separate program parameters or user modes.

- Colour Image sensor 1/2 inch, 3.2 um x 3.2 um pixels
- Active Sensor Window 6.55 x 4.92mm - 8.19mm diagonal
- Colour Filter Array RGB Bayer pattern
- IR Filter Reflective
- Sensitivity at 550nm 1.0V/Lux sec, 1024 x 768 2V/Lux sec
- SNR 43dB
- Dynamic range 61dB
- ADC 10Bit
- White Balance One touch/ manual
- Progressive Scan, rolling shutter

- AEC Auto/ Manual 0.53 - 500m/secs
- AGC Auto/ Manual x1 - x64
- Banding filter 50 - 60 Hz
- FF Flat field correction
- Gamma 0.10 - 1.0 auto compensation
- Image mono/ colour
- Histogram real time/ gamma
- Image control mirror and/ flip
- Frame buffer off/ history by frame
- Image control mirror and/ flip
- Default optimised factory settings



Model	Si-5000
Product code	9556.5000
Pixels	5 Mpx
Frame rate (max)	34 Fps
Sensitivity (v/lux -sec)	1.0
Image input	USB 2.0



ADVANCED DIGITAL CCD CAMERAS

These high-quality CCD cameras are suitable for all contrast methods in light microscopy and can be easily integrated via C-Mount and USB 2.0/ Firewire interfaces. The cameras are designed to provide rapid frame rates with low level power consumption.

True colour reproduction and a fine detail display, match that seen through the microscope due to

the high resolution of the digital cameras.

This ensures outstanding applicability for image analysis and reliable image documentation. The high frame rates provide fast, live images, thus offering easy workflow and convenient usage.

The colour or monochrome scientific cameras have the option of being cooled, have been optimized for tasks in scientific areas and meet the high requirements of low-light level camera applications, such as fluorescence.

Product Code	Description
9557.6140	1.4 Mpx Medline SI 1400 Digital USB Camera, complete with analysis software. (Recommended for Fluorescence)
9557.5777	5 Mpx Medline SI 5000 Digital Firewall Camera, Peltier cooled complete with Professional analysis software
9557.7000	7 Mpx Medline SI 7000 Digital Firewall Camera, complete with Professional analysis software
9557.5712	12 Mpx Medline SI 12000 Digital Firewall Camera, complete with Professional analysis software

IMAGE ANALYSIS SOFTWARE

To allow for more complex image processing, additional software packages are available which complement the standard software provided with the camera system.

All packages feature (as standard).

Live Measurement and Overlay Settings / Calibration (automatic & manual) / Extended Focus Imaging (EFI) / 3D Visualisation / Image Stitching / Live Image Comparisons / Time Lapse Capture and Movie File Production / Combine Image Planes (Fluorescence Imaging) / Import data into Excel / Large selection of Measuring and Analysis Functions (including annotation).

i-Solution Lite:

Manual measurements, including moderate image processing functions.

i-Solution:

Advanced image processing and enhancement, including both manual and automated image analysis.

Additional features include:

Auto & Manual Thresholding for Count and Size / Objects Editing (Enhanced measurement accuracy) / 43 Selectable Measurement Parameters / Densitometry / Perfect Focus Enhancement / Macro-Enabled Recording /

Data Collector / Reflected Light Subtraction / Automatic count for Live and Stained Cells / Particle Analysis

i-Solution DT:

Premium software package incorporating all elements of image analysis found in i-Solution and i-Solution Lite, including motorized stage control and 3D analysis. Customized modules can also be added by request.

Additional features include:

Large size Object Measurement / Auto Edge Detector / Phase Analysis & Advanced Threshold / Thickness Measurement (Layer Depth Measurement) / Stereometry for Biovolume / 67 Selectable Measurement Parameters / Motorized Stage Control Image Stitching / 3D Reconstruction / Grain Size Measurement / Ferrite in Cast Iron / Graphite Analysis in Nodular Cast Iron / Non-metallic Inclusion Rating / Chart Navigator / Yarn Filament Analysis / Automatic Fruit Size

Product Code	Description
9600.1010	I Solution lite
9600.1012	I Solution
9600.1013	I Solution DT
9600.0011	Image Pro Express
9600.0012	Image Pro Plus

C MOUNT FITTINGS

These connect the camera to the microscope ensuring that par focality is retained by placing the camera chip in the same focal plan as the eyepieces so that no re focussing is required when switching between manual or on screen viewing. Each C mount is specific to the relevant microscope series.

Product Code	Description
1202.4888	For Max II
2757.2050	For Magnum and Reflex
3157.2050	For Triton II and Inverso TC
3657.2050	For Inverso / Ferox
6757.2050	For Vertex
7357.1111	For New Steddy
7700.2345	For Varizoom
2757.4500	Trinocular eyepiece adapter





Glass Slides



Glass Coverslips



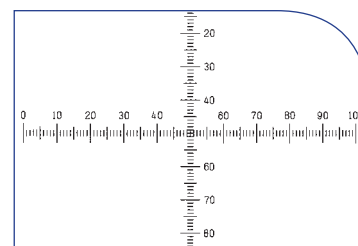
Slide Mailers



Slide Storage



Microscope Cleaning Kit



Eyepiece Graticules



Storage Cases



Mirror Attachment



Polarisation Kits



Phase Contrast Kits



Additional Eyepieces



Additional Objectives



Slide Micrometer



Heated Stages



Motorised Stage Controller



Motorised Stage



Cold Light Sources



Led Ring Lights

OVENS

- ▮ Forced Convection Ovens
- ▮ Natural Convection Ovens
- ▮ Vacuum Ovens
- ▮ Hybridization Oven
- ▮ Accessories

Safety Features

- ▮ Self-protecting cut-off function and visual signals:
- ▮ Over temperature safety function: shuts off the power that is being supplied to the heater and then the controller sequentially.
- ▮ 2 separate over-current fuses.
- ▮ Timer mode useful for delaying the start of a test or for stopping a test that has been running for a certain time.
- ▮ Integrated time setting: Delay ON/OFF. (from 1 min 99hr 59 min)
- ▮ Power interruption setting: After a power interruption select automatic run or manual run.
- ▮ Door-open warning alarm (excludes OV Models).
- ▮ Intermittent audible tone and visual LED warning alarms.
- ▮ After 5 minutes of the door being open the heater and fan will stop.

Optimum Control Features

- ▮ Professional electronic and program control:
- ▮ Microprocessor PID temperature control with simple calibration and autotuning feature.

- ▮ Conveniently preset settings for the 3 most commonly used temperatures.
- ▮ Switch from Celsius to Fahrenheit. (C°or °F)
- ▮ HMI (Human Machine Interface) control display network system.
- ▮ Similar key arrangements to the temp. & humid. chambers, baths, circulators, and shakers.
- ▮ User-friendly controls, splash proof / easy to clean keypad and clear LED display.
- ▮ Quick keypad lock key prevents accidental resetting of testing parameters.

Constructional Features

- ▮ High quality #304 grade stainless steel inner chamber and dirt repellent powder coated exterior surface. (except for OV Models)
- ▮ Gasket minimizes heat loss and tightly seals the chamber door.
- ▮ Fully insulated oven chamber prevents heat from escaping to the exterior surface.
- ▮ Adjustable electropolished stainless steel shelving provides uniform air flow around samples.

Models	OF	ON	OV
General applications	Forced convection	Natural convection	Vacuum
General aging and curing	•		
Agricultural genetic	•		•
Annealing	•	•	
Asphalt testing	•	•	
Conditioning	•	•	
Contamination-free storage of semiconductors and other sensitive electronic components			•
Desiccating			•
Digestion of proteins and starches	•		
Drying of plant tissue		•	
Drug metabolism	•	•	
Electronic burn-in	•	•	
Epoxy and plastic curing	•	•	
Fine chemical precipitation		•	
General baking	•	•	
General heating	•	•	
Glassware drying	•	•	
Ideal for general drying			•
Life and exposure studies	•	•	
Ordinance material testing	•	•	
Out-gassing solids and liquids			•
Paper drying	•	•	
Plating			•
Precise moisture determination	•		•
Preheating	•	•	
Rubber drying	•	•	
Serum protein analysis	•	•	
Silicon wafer drying			•
Stability and qc/ batch testing	•	•	
Sterilisation	•	•	
Suspended solids evaluation	•	•	
Textile drying	•	•	
Vacuum embedding			•
Volatile resins and polymers testing			•
Vulcanization studies	•	•	



NATURAL CONVECTION ECONOMY MODELS

Economical multi-function ovens with gentle air-flow circulation.

Model	ON-01E	ON-11E	ON-21E
Product code	15015	15025	15035
Chamber volume (Litres)	52	100	150
Temperature	Range (°C)		
	Amb. +15 to 220		
	Fluctuation at 100°C (±°C)		
Dimensions W x D x H	0.3	0.4	0.5
	Variation at 100°C (±°C)	6.5	4.1
Dimensions W x D x H	7.3	375 x 370 x 370	455 x 430 x 510
	Internal (mm)	530 x 535 x 737	610 x 595 x 877
Net weight (Kg)	34	46	59

NATURAL CONVECTION GENERAL MODELS

Ovens for all sterilisation and drying tasks that do not require high drying rates or special time requirements, ideal for drying applications requiring a gentle airflow.

- ▶ RS-232 interface and Lab Tracer software

Model	ON-02G	ON-12G	ON-22G
Product code	11135	11145	11155
Chamber volume (Litres)	52	91	135
Temperature	Range (°C)		
	Amb. +15 to 250		
	Fluctuation at 100°C (±°C)		
Dimensions W x D x H	0.3	5.9	7.5
	Variation at 100°C (±°C)	6.9	400 x 360 x 365
Dimensions W x D x H	480 x 410 x 465	610 x 460 x 485	577 x 542 x 760
	Internal (mm)	657 x 592 x 870	785 x 642 x 897
Net weight (Kg)	49	59	68



FORCED CONVECTION ECONOMY MODELS

Fast drying ovens with vertical air-flow circulation.

Model	OF-01E	OF-11E	OF-21E
Product code	14012	14022	14032
Chamber volume (Litres)	52	100	150
Temperature	Range (°C)		
	Amb. +10 to 220		
	Fluctuation at 100°C (±°C)		
Dimensions W x D x H	0.4	3.3	3.3
	Variation at 100°C (±°C)	2.3	375 x 370 x 370
Dimensions W x D x H	455 x 430 x 510	585 x 460 x 555	530 x 535 x 737
	Internal (mm)	610 x 595 x 877	740 x 625 x 922
Net weight (Kg)	36	47	59



FORCED CONVECTION GENERAL MODELS

Silent operating ovens with a strong air-flow for high air exchange rates and short rise time that guarantees intensive drying performances.

- ▶ RS-232 interface and Lab Tracer software

Model	OF-02G	OF-12G	OF-22G
Product code	12155	12165	12175
Chamber volume (Litres)	60	102	151
Temperature	Range (°C)		
	Amb. +10 to 250		
	Fluctuation at 100°C (±°C)		
Dimensions W x D x H	0.5	0.6	0.8
	Variation at 100°C (±°C)	1	1.3
Dimensions W x D x H	1.7	400 x 360 x 420	480 x 410 x 520
	Internal (mm)	577 x 642 x 760	657 x 692 x 870
Net weight (Kg)	53	63	72.5





VACUUM

Optimal vacuum oven with a wide temperature range for various test applications.

► RS-232 interface and Lab Tracer software

Model		OV-11	OV-12
Product code		13115	13125
Chamber volume (Litres)		28	65
Vacuum range (MPa)		0 to 0.1	
Temperature	Range (°C)	Amb. +5 to 250	
	Fluctuation ¹⁾ at 100°C (±°C)	0.1	0.3
	Variation ¹⁾ at 100°C (±°C)	3.7	
Dimensions W x D x H	Internal (mm)	302 x 305 x 302	402 x 405 x 402
	External (mm)	680 x 453 x 495	780 x 557 x 595
Net weight (Kg)		63	103



HYBRIDIZATION OVEN

Equipped with a precise rocker, this unit offers ideal reproducibility for various molecular biology applications such as nucleic acid hybridization, Western, immunoblotting, immunoprecipitation, etc.

Model		HO-10
Product code		AAH1B012K
Temperature	Range (°C)	Amb. +5 to 65
	Fluctuation at 50°C, 9RPM (±°C)	0.5
	Variation at 50°C, 9RPM (±°C)	0.5
Shaking System	Motion type	Rocking Motion
	Speed range (RPM)	5 to 50
	Tilt angle	8.5°±1
	Max. load (Kg)	1
Dimensions	Volume (Litres)	10
	Sliding shelf W x D (mm)	256 x 198
	Internal W x D x H (mm)	278 x 262 x 160
	External W x D x H (mm)	400 x 410 x 264
Net weight (Kg)		14

¹⁾ Technical data according to DIN 12880.

ACCESSORIES AND OPTIONS



Wire Shelves



Perforated Shelves



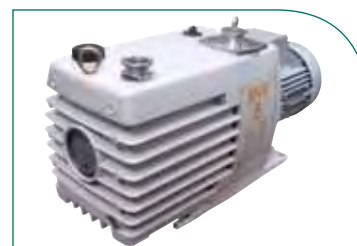
Tempered Viewing Windows



Fan Speed Adjuster



Safety Covers (OV-models)



Vacuum Pumps (OV-models)

High Performance Pipette PIPETTORS

- Variable volume
- Fixed volume
- Racks

P

Comfortable and Low Effort Pipetting reduces the risk of repetitive strain injuries. Setting the volume is easy and absolute precise using the push button. Two step plunger operation allows the use of the "reverse pipetting technique".

This also facilitates last drop dispensing by soft plunger movements. Each pipette is individually tested and twice calibrated conforming to EN ISO 8655 and DIN 12650 standards. Micropipettes can be autoclaved.

DIGITAL SC VARIABLE VOLUME

Product code	Vol. range μ l	Increments μ l	Test Volume μ l	Compatible Tips
MD810009	0.1 - 2.5	0.05	0.25 / 1.25 / 2.5	MD100081
MD810109	0.5 - 10	0.1	1 / 5 / 10	301-01 / 301-11 / 200024
MD810209	2 - 20	0.5	2 / 10 / 20	MD105081
MD810409	10 - 100	1	10 / 50 / 100	200010 / 200078 / 200016
MD810509	20 - 200	1	20 / 100 / 200	200009
MD8105019	50 - 200	1	50 / 100 / 200	200009
MD810609	100 - 1000	5	100 / 500 / 1000	200012 / 200080.1
MD8106209	200 - 1000	5	200 / 500 / 1000	200012 / 200080.1
MD8106109	500 - 5000	50	500 / 2500 / 5000	200075



DIGITAL SC FIXED VOLUME

Product code	Vol. range
MD8001009	5
MD8002009	10
MD8003009	20
MD8004009	25
MD8007009	50
MD8008009	100
MD8009009	200
MD8010009	250
MD8010009	500
MD8012009	1000
MD8013009	2000
MD8014009	2500
MD8015009	5000
MD8016009	10000



RACKS

Product code	Description	Unit
MD8130009	Rack for 4 micropipettes	1
MD8131009	Rack for 6 micropipettes	1



To further compliment this unique range of pipettors we have available a dedicated range of filter tips, Micro-tubes, PCR-tubes and storage boxes.

POLARIMETERS

- ▶ Analogue
- ▶ Digital

Medline offer a high quality range of Ceti polarimeters from analogue to digital. With manual / analogue systems, you rotate the vernier scale by hand and observe the angle with the greatest brightness. Semi-automatic models have push-button control of the rotation angle for greater precision and ease-of-use. Automatic ones measure with just the touch of a button, and give the highest accuracy and resolution. For applications within the medical, chemical, educational, pharmaceutical or cosmetic industries, a manual polarimeter might be ideal. The food industry often needs fast and efficient results to which a fully-automated system is more suited.



POLARIS ANALOGUE

The Polaris is a high quality, low cost instrument capable of measuring the rotation of optically active samples and matches the performance of many digital instruments in the market today. The variable half waveplate effect is used to obtain a balance between the two halves of a circle when viewed through the eyepiece. The reading is then taken from the scale.

The Polaris accepts sample tubes of lengths up to 220mm and is used for measuring concentrations and optical rotations in the food, sugar, flavouring, fragrance, pharmaceutical and chemical industries.

Product code	9100.0000
Measuring range	360° with 180°left/right rotation
Light source	Monochromatic light source of 589nm
Accuracy	Double vernier scale: accuracy 0.05
Light source	LED
Dimensions W x D x H (mm)	600 x 200 x 400
Net weight (Kg)	8



POLARIS DIGITAL

The digital and automatic polarimeters include a self test for rotating the angle and sugar degree as one complete operation based upon the mean average. All results are clearly displayed on the unique LCD display.

Automatic models have a peltier controlled chamber to control the temperature of the sample and can measure dark coloured samples. Supplied with USB and RS232 interfaces.

Product code	9100.5000	9100.6000	9100.7000
Type	Digital	Automatic	Automatic
Measuring range	-45° to +45° -120° to +120°	-45° to +45° -120° to +120°	-89° to +89°
Measuring time	1° /s		
Minimum reading	0.001° / -120°	0.001°	0.001°
Accuracy	±0.01° (+ Test Value x 0.05%)	±0.01° (+measuring value x 0.03%)	±0.01° (-15°< optical rotation >+15°)
Repeatability	≤0.002° / ≤0.02°	>1% ≤0.002°	1%° 0.002°
Resolution	0.005° / 0.001°		
Minimum sample transmittance	1 %	1 %	1%
Light source	Sodium lamp 589 nm	LED (2.4V, 1W, 5000hours)	LED
Dimensions W x D x H (mm)	600 x 320 x 220	850 x 470 x 380	850 x 470 x 380
Net weight (Kg)	30	32	37

REFRACTOMETERS

R

- ▶ Hand held
- ▶ Digital
- ▶ Benchtop

Ceti Refractometers offer precision, versatility and excellent value. Our range begins with the analogue pocket models, expanding to digital and benchtops systems, incorporating fully automated measuring and processing models.

HAND HELD ANALOGUE

The **Digit series** comprises **25 lightweight hand-held refractometers** for measuring the **Brix or refractive index value of specific products**. **8145 models** feature **automatic temperature compensation (ATC)**.

Suitable for general applications to industry specific: examples include the control of sugar or alcohol levels in food and beverages and spot testing of petrochemicals.



Model	DIGIT-012 Clinical		DIGIT-050 Battery		DIGIT-090 Sugar	
Product code	8100.0120	Precision	8100.0500	Precision	8100.0900	Precision
Scale	Refractive index 1.3330 to 1.3600	0.0005	Ethylene glycol from -50°C to 0°C	5°C	0-42% Brix	0.2%
	Protein 0 to 12 g/dl	0.2	Specific gravity 1.15 to 1.30 sg	0.01	42-71% Brix	0.2%
	Specific gravity 1.000 to 1.050	0.002	Battery fluid from -50°C to 0°C	5°C	71-90% Brix	0.2%

Model	DIGIT-5890 Honey		DIGIT-5890 ATC Honey		DIGIT-015 Sugar/oil	
Product code	8100.5890	Precision	8145.5890	Precision	8100.0150	Precision
Scale	58-90% Brix	0.5%	58-90% Brix	0.5%	0-15% Brix	0.2%
	12-27% Water	1%	12-27% Water	1%	Refractive index 1.3330 to 1.3560	0.0005 nD
	38-43% Baumé	0.5%	38-43% Baumé	0.5%		

Model	DIGIT-30~140 Oechsle scale		DIGIT-100 ATC Salinity		DIGIT-025 ATC Alcohol	
Product code	8100.3014	Precision	8145.0100	Precision	8145.0250	Precision
Scale	0-32% Brix	0.20%	0-100‰ Salinity	1‰	0-25% Alcohol/Volume	0.2%
	30-140 Oechsle	0.10%	Gravity 1.000 to 1.070 sg	0.001		

Model	DIGIT-025 Alcohol		DIGIT-032 Sugar		DIGIT-080 Sugar	
Product code	8100.0250	Precision	8100.0320	Precision	8100.0800	Precision
Scale	0-25% Alcohol (Volume)	0.2%	0-32% Brix	0.2%	0-80% Brix	0.5%

Model	DIGIT-2862 Sugar		DIGIT-010 ATC Sugar		DIGIT-032 ATC Sugar	
Product code	8100.2862	Precision	8145.0001	Precision	8145.0320	Precision
Scale	28-62% Brix	0.2%	0-10% Brix	0.1%	0-32% Brix	0.2%

HAND HELD DIGITAL

The **SR-95 digital refractometer** has a **triple range scale coupled with an RS232 interface**.

Other additions include automatic temperature compensation, Centigrade and Fahrenheit measurements, a stainless steel sample plate and instantaneous digital results.

Product code	8950.0000			
	Type	Range	Resolution	Accuracy
Scale	Brix	0-95%	0.1%	+/- 0.1%
	Refractive Index	1.3330-1.5318	0.0001	+/- 0.00015
	Salinity	0-30%	0.1%	+/- 0.1%





BENCHTOP ANALOGUE

The Convex is highly versatile, allowing measurements of a wide range of substances to be taken. Both upper and lower prisms have their own light entry ports, which can be closed, thereby making it possible to take readings from both reflected and transmitted light.

Model	Convex
Product code	8200.0000
Scale	Refractive index nD: 1.3000-1.7200 Sugar 0-95% Brix
Precision	0,0005 nD 0,25% Brix
Eyepiece	30x telescope, focusable
Temperature range (°C)	0-200 (Digital thermometer)
Dimensions W x D x H (mm)	280 x 190 x 380
Net weight (Kg)	4,5



The Prisma refractometer is equipped with an integral LED illuminator for its external scale unit, allowing readings to be easily taken whilst taking notes.

A user friendly colour compensation knob eliminates any colour shift. In addition to transparent solutions, the PRISMA is equipped to measure the RI of solids, powders, pastes and plastic films. Both the upper and lower prisms are of the highest quality and include connecting nozzles for a thermostatic water bath.

Model	Prisma
Product code	8300.0000
Scale	Refractive index nD: 1.3000-1.7200 Sugar 0-95% Brix
Precision	0,0005 nD 0,25% Brix
Eyepiece	22x telescope, focusable
Temperature range (°C)	0-200 (Digital thermometer)
Dimensions W x D x H (mm)	360 x 240 x 400
Net weight (Kg)	7



BENCHTOP DIGITAL

The Quartz is a semi-automated Abbe refractometer. Its fast, digital read-out offers a speedier throughput, which is particularly useful in manufacturing centres and on production lines.

Presentation of a sample produces an almost instantaneous, accurate readout of the RI, %Brix value and %Brix temperature on the LCD display. An RS232 PC/Printer interface is supplied.

Model	Quartz
Product code	8400.0000
Scale	1.3000 to 1.7000 0 to 95% Brix (Bx) 0 to 90% Brix temp. compensated (BxTC)
Precision	0.0001 nD / 0.00020 nD 0.1% Brix/0.1% Brix
Eyepiece	Focusable
Temperature range (°C)	15 to 50
Dimensions W x D x H (mm)	470 x 370 x 240
Net weight (Kg)	12

The Difrax is a fully automated digital Abbe refractometer. The touch sensitive screen has functions of temperature display, automatic correction and saving of date.

An RS232 PC/Printer interface is supplied as standard.



Model	Difrax
Product code	8500.0000
Scale	Refractive index nD: 1.3000-1.7000 Brix(BX-TC): 0-100% Brix(Bx): 0-95%
Measuring accuracy	Refractive index nD: ± 0.0002 Dissolved solids Brix: $\pm 0.1\%$
Measuring resolution	Refractive index nD: 0.00001 Dissolved solids Brix: 0.01%
Temperature range (°C)	0 to 50
Dimensions W x D x H (mm)	329 x 214 x 150
Net weight (Kg)	3.7

REFRIGERATORS AND FREEZERS

R

- ▶ Laboratory Refrigerators
- ▶ Pharmacy Refrigerators
- ▶ Laboratory Freezers
- ▶ Accessories



Safety Features

- ▶ Visual and audible temperature alarms.
- ▶ Open door alert.
- ▶ Automatic shutdown of fan when the door is opened.
- ▶ Two separate fuses.
- ▶ Integrated door lock.
- ▶ Eco-friendly refrigerant: non-ozone.

Optimum Control Features

- ▶ Intuitive and easy-to-operate control panel with vivid and colorful vacuum fluorescent display (VFD), touch-sensitive buttons, and a jog dial.
- ▶ CPU logic control system offering precise temperature control as well as high energy efficiency.
- ▶ Optimizing temperature control system
 - All 150, 300, 650 Models with Automatic defrost system minimize temperature change.
 - All 850, 1400 Models with highly efficient Dual refrigeration system minimize temperature change itself. (no defrost system needed)
 - Additional manual defrost system also allows for immediate control. (only for freezer Models)
- ▶ Keypad lock button preventing inadvertent parameter changes.
- ▶ Easy temperature unit conversion between °C and °F
- ▶ Three types of recorders to choose from. (optional)
- ▶ Dot matrix recorder / Chart recorder / Thermal line recorder.

Constructional Features

- ▶ High-quality 304 grade stainless steel chamber interior and dirt-repellent external surface with powder coating.
- ▶ Double-pane tempered glass door with built-in wire heater providing clear inside view of the chambers. (for the models with glass doors only)
- ▶ Door seal packing
 - Refrigerators:** magnetic door seal for absorbing impact from opening and closing the door.
 - Freezers:** air-tight silicone door seal with vice lock door closing mechanism for safe storage of samples.
- ▶ Fully insulated chamber ensuring minimal chamber temperature fluctuation.
- ▶ Built-in 50mm diameter cable port for external probes or wires. (except for CLG -150, all Freezer Models)
- ▶ High thermal efficiency evaporation system made of low corrosion material.
- ▶ Built-in casters for easy transport. (except for all 150 Models)
- ▶ Dedicated stand with casters and stacking kit for all 150 Models for use in labs with limited space. (optional)
- ▶ Various accessories.

General Applications	Laboratory Refrigerators & Freezers	
	CLG / CLP	FHG / FMG / FCG
BOD Protocols	•	
Chemical Storage	•	
Chromatography Apparatus and Instrumentation	•	
Clinical	•	•
Culture	•	
Enzymes		•
General Storage	•	•
Life Science	•	
Medication	•	•
Pharmaceutical	•	
Pre-Freezing		•
Reagents	•	
Test Samples	•	•
Temperature Sensitive Materials		•

* Above listed applications are for general and storage purpose use.

LABORATORY REFRIGERATORS

GENERAL PURPOSE

With advanced safety features, the cold storage system provides a stable refrigerated environment for life science, pharmaceutical, biotechnology, clinical, and industrial laboratories.

- Built in fluorescent lighting (except CLG-150)
- Magnetic door seal
- High thermal efficiency evaporation system



Model		CLG-150	CLG-300	CLG-650	CLG-850	CLG-1400
Product code	Solid Door	AAHE1002K	AAHE1012K	AAHE1022K	AAHE1032K	AAHE1042K
	Glass Door	AAHE1102K	AAHE1112K	AAHE1122K	AAHE1132K	AAHE1142K
Chamber volume (Litres)		156	319	636	843	1395
Display		VFD and touch-screen				
Temperature range (°C)		2 to 10				
Refrigerator (Hp)		1/8	1/6	1/4	1/6 x 2ea	1/4 x 2ea
Door type		Heated glass or Solid				
Lighting		-	18W Fluorescent lamp	32W Fluorescent lamp		
Material	Internal	Stainless steel #304				
	External	Steel, 1 mm, powder coating				
	Insulation	60mm, Polyurethane foam				
Dimensions W X D X H (mm)	Internal	550 x 580 x 490	550 x 580 x 1000	650 x 675 x 1450	750 x 775 x 1450	1425 x 675 x 1450
	External	683 x 791 x 870	670 x 719 x 1515	770 x 815 x 1965	870 x 915 x 1965	1545 x 815 x 1965
Net weight (Kg)		100	130	210	260	350

PHARMACY REFRIGERATORS

- Fully insulated chamber enabling minimum temperature fluctuation
- Double-pane tempered glass door with integrated wire heater
- Mounted on casters for easy transportation



Model		CLP-650	CLP-850	CLP-1400
Product code	Solid Door	AAHE3022K	AAHE3032K	AAHE3042K
	Glass Door	AAHE3122K	AAHE3132K	AAHE3142K
Chamber volume (Litres)		636	843	1395
Display		VFD and touch-screen		
Temperature range (°C)		2 to 10		
Refrigerator (Hp)		1 / 4	1 / 6 x 2ea	1 / 4 x 2ea
Door type		Heated glass or Solid		
Lighting		32W Fluorescent lamp		
Material	Internal	Stainless steel #304		
	External	Steel, 1 mm, powder coating		
	Insulation	60mm, Polyurethane foam		
Dimensions W x D x H (mm)	Internal	650 x 675 x 1450	750 x 775 x 1450	1425 x 675 x 1450
	External	770 x 815 x 1965	870 x 915 x 1965	1545 x 815 x 1965
Net weight (Kg)		210	260	350

LABORATORY FREEZERS GENERAL PURPOSE

Protect laboratory materials, choose among from three different freezer lines that fit your experimental needs. Additionally equipped with a manual defrost function for storage of sensitive sample and specimens.

- ▶ CPU logic control system
- ▶ Air-tight silicone door seal with vice locking door mechanism
- ▶ Dual defrost systems

Model		FHG-150	FHG-300	FHG-650
Product code	Solid Door	AAHE2102K	AAHE2112K	AAHE2122K
Chamber Volume (Litres)		156	319	636
Display		VFD and touch-screen		
Temperature Range (°C)		-15 to 0		
Refrigerator (Hp)		1	3	1
Door Type		Solid		
Material	Internal	Stainless steel #304		
	External	Steel, 1 mm, powder coating		
	Insulation	70mm, Polyurethane foam		
Dimension W x D x H (mm)	Internal	550 x 580 x 490	550 x 580 x 1000	650 x 675 x 1450
	External	723 x 811 x 885	710 x 739 x 1530	810 x 835 x 1980
Net Weight (Kg)		110	140	225

Model		FCG-150	FCG-300	FCG-650
Product code	Solid Door	AAHE2302K	AAHE2312K	AAHE2322K
Chamber Volume (Litres)		156	319	636
Display		VFD and touch-screen		
Temperature Range (°C)		-35 to -25		
Refrigerator (Hp)		1	3	1
Door Type		Solid		
Material	Internal	Stainless steel #304		
	External	Steel, 1 mm, powder coating		
	Insulation	70mm, Polyurethane foam		
Dimension W x D x H (mm)	Internal	550 x 580 x 490	550 x 580 x 1000	650 x 675 x 1450
	External	723 x 811 x 885	710 x 739 x 1530	810 x 835 x 1980
Net Weight (Kg)		110	140	225

ACCESSORIES AND OPTIONS



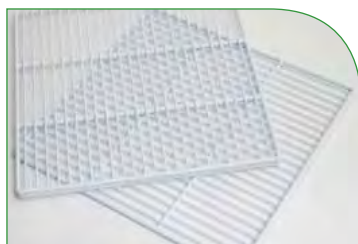
Dot Type Recorder



Chart Type Recorder



Thermal Line Type Recorder



Wire Shelves



Wire Shelves (slide type)



Drawer (slide type)

SHAKERS

- ▶ Economy Shakers
- ▶ Dual-action Shakers
- ▶ Advanced Orbital Shakers
- ▶ Mini Shakers
- ▶ Microplate Shakers
- ▶ Rocking & Waving Shakers
- ▶ Accessories

Safety Features

- ▶ Self-protecting cut-off function.
- ▶ Over-current fuses for user safety.
- ▶ User setting functions: Select automatic run or manual run after power has been interrupted.
- ▶ Acceleration / deceleration circuit. (Excludes RS, CMS, CPS and CWS / CRS Models)
- ▶ The shaker units stops and starts at the same position every time.
- ▶ To prevent spillage from flasks and tubes the shaker gently starts up and gently stops.
- ▶ If the load sensor detects any type of imbalance it will reduce the shaking motion. (SKC Models)

Optimum Control Features

- ▶ Easy to use, comes in a wide range of rpm setting which covers most applications.
- ▶ Professional electronic and program control.
- ▶ Microprocessor PID controls.
- ▶ Self-diagnostic function identifies any errors and advises the user how to correct the errors.
- ▶ Multi-function shaking system. (Forward & backward, timer and pause)

Model	SK	SKF	SKC
Wait ON	-	•	•
Wait OFF	•	•	•
Program Mode	-	-	•

- ▶ Similar key arrangements to the temp. humid. chamber, bath, circulator, and shaker.
- ▶ User-friendly controls, splash proof / easy to clean keypad and clear LED display. (SK and SKF Models only)
- ▶ Colorful and bright VFD display with interactive touch keys. (SKC, CMS CPS and CWS / CRS Models)
- ▶ End of shaking session stops with an audible alarm sound. (RS Models only)

Constructional Features

- ▶ Dual shaking action- select from orbital or recip-roating shaking motion. (SK Models only)
- ▶ Slim and low-profile design, reduces the vibration and sliding caused by the high speed shaking motion.
- ▶ Brushless DC motor creates a smooth and quiet uniformed shaking motion.
- ▶ Innovative triple-cam shaking system. (SKC Models)
- ▶ DD (Direct drive) motor allows the shaker to hold heavy loads, is quiet, high rpm, and durable. (SKC Models)
- ▶ Dirt repellent powder coated external surface.
- ▶ Wide range of accessories.

Model	SKC	SK / SKF	RS	CMS / CPS	CBS	CRS / CWS
General applications	Open-air and Separatory Funnel Shakers					
Bacterial suspensions	•	•		•	•	•
Cell culture	•	•		•	•	•
Diagnostic tests		•		•	•	•
Drug analysis	•	•	•	•	•	•
Elisa	•	•		•	•	•
Environmental technology (waste water and soil analysis)	•	•	•		•	
Enzyme immunoassays	•	•		•	•	•
Extraction procedures	•	•		•	•	•
General mixing	•	•	•	•	•	•
Hemolyzing blood separation		•	•	•	•	•
Hybridization	•	•		•	•	•
Inorganic solvent extraction			•			
Soil compound extraction			•			
Solubility studies	•	•	•		•	
Solvent extraction for water quality analysis			•			
Staining and destaining	•	•		•		•
Preparation for metal analysis			•			
Pharmaceutical profiling	•	•	•	•	•	•
Protein synthesis	•	•		•	•	•

* Above listed applications are for general purpose use.



ECONOMY

The distinctive and economical SKF models offer the most suitable shaking motion.

Two types of shaking motions (orbital or reciprocating), with four separate amplitude settings. The compact and interchangeable platform design accommodates various types and sizes of vessels and suitable for use in chambers.

Model		SKF-2025	SKF-2075	SKF-2025R	SKF-2075R
Product code		AAH3A105K	AAH3A125K	AAH3A205K	AAH3A225K
Shaking system	Motion type	Orbital	Orbital	Reciprocating	Reciprocating
	Speed range (RPM)	10 to 500	10 to 300	10 to 450	10 to 250
	Accuracy at 100 RPM	± 2			
	Timer	Delay On / Off Time : 1min to 999hr 59min Forward & Backward, Pause : 10sec to 59min 59 sec			
	Amplitude size (mm)	7	19	7	19
Dimensions	Platform W x D (mm)	320 x 260			
	External W x D x H (mm)	355 x 375 x 140			
Net weight (Kg)		20			

Model		SKF-3050	SKF-3100	SKF-3050R	SKF-3100R
Product code		AAH3A305K	AAH3A325K	AAH3A405K	AAH3A425K
Shaking system	Motion type	Orbital	Orbital	Reciprocating	Reciprocating
	Speed range (RPM)	10 to 400	10 to 300	10 to 350	10 to 250
	Accuracy at 100 RPM	± 2			
	Timer	Delay On / Off Time : 1min to 999hr 59min Forward & Backward, Pause : 10sec to 59min 59 sec			
	Amplitude size (mm)	13	25	13	25
Dimensions	Platform W x D (mm)	350 x 350			
	External W x D x H (mm)	410 x 490 x 140			
Net weight (Kg)		30			



DUAL-ACTION

Benchtop platform shakers with advanced dual-shaking features, for flasks up to maximum 6L.

Two types of shaking motions (orbital or reciprocating), with four separate amplitude settings. The compact and interchangeable platform design accommodates various types and sizes of vessels and suitable for use in chambers.

Model		SK-300	SK-600	SK-71
Product code		31105	31205	31305
Shaking system	Motion type	Orbital or Reciprocating		
	Speed range (RPM)	10 to 300		
	Timer	Run time: 10 sec to 999 hr 59 min 59 sec Forward & Backward, Pause : 10 sec to 59 min 59 sec		
	Amplitude size (mm. dia)	20, 30, 40 Available (Standard 30)		30, 40, 50, 60, 70 Available (Standard 30)
	Recip stroke length (mm)			
Dimensions	Platform W x D (mm)	350 x 350	450 x 450	755 x 481
	External W x D x H (mm)	410 x 490 x 150	510 x 595 x 150	820 x 610 x 166
Net weight (Kg)		24	29	50



ADVANCED ORBITAL

Innovative triple-cam shaking system with compact design and superior fabrications.

Exclusive SKC shaker series can carry out low maintenance applications that demand heavy duty, continuous operation, and high reliability testing.

Model			SKC-6100		SKC-6200		SKC-7100		SKC-7200	
Product code			AAH30115K		AAH30125K		AAH30215K		AAH30225K	
Display			VFD							
Shaking system	Motion type		Orbital							
	Speed range (RPM)		30 to 500							
	Accuracy at 100 (RPM)		± 1							
	Amplitude size (mm)		25		50		25		50	
Dimensions	Platform W x D (mm)	Small	320 x 260				755 x 520			
		Large	660 x 520				885 x 520			
	External W x D x H (mm)		582.8 x 618 x 122.2				754.8 x 662 x 122.2			
Net weight (Kg)			65				75			



MINI SHAKER

Compact and lightweight design for easy mobility and for use in areas with limited space.

The real-time RPM controlling is responsive with the speed control knob. Ideal for hybridization, immunocytochemistry, gel staining/destaining, and other bioscience applications.

Model		CMS-350
Product code		AAH3B1115K
Display		VFD
Shaking system	Motion type	Orbital
	Speed range (RPM)	50 to 300
	Accuracy at 100 (RPM)	± 5
	Timer	1min. to 99hrs. 59min.
	Max. Load (Kg)	4
Dimensions	Platform W x D (mm)	250 x 250
	External W x D x H (mm)	276 x 334 x 130
Net weight (Kg)		8



MICROPLATE SHAKER

Fitted with 4 microplates and wider speed range to accommodate various sample testing.

Optimally designed to shake four microplates simultaneously, this Microplate Shaker is ideal for applications that demand precise and repeatable mixing such as immunoassays.

Model		CPS-350
Product code		AAH3C1115K
Display		VFD
Shaking system	Motion type	Orbital
	Speed range (RPM)	150 to 1,200
	Accuracy at 500 (RPM)	± 15
	Timer	1min. to 99hrs. 59min.
	Max. Load (Kg)	4
Dimensions	Tray W x D (mm)	267 x 185
	External W x D x H (mm)	249 x 329 x 127
Net weight (Kg)		7.7



CRS-350



CWS-350



ROCKING AND WAVING

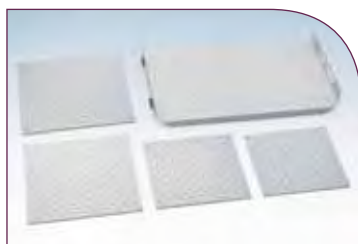
Adjustable tilt angle and variable digital speed controller provides any possible movement for outstanding rocking or waving results.

Removable tray and digital timer can be applied to variety purposes

- Ideal for ELISA, enzyme immunoassays, protein synthesis, hybridization staining or destaining gels, pharmaceutical profiling, and among other laboratory applications.

Model		CRS-350	CWS-350
Product code		AAH391115K	AAH381115K
Display		VFD	
Shaking System	Motion type	Rocking type	Waving Type
	Speed range (RPM)	5 to 100	8 to 100
	Accuracy at 100 RPM	± 5	
	Tilt angle	25	50
	Max. load (Kg)	5	
Dimensions	Tray w x d (mm)	276 x 276	
	External w x d x h (mm)	276 x 320 x 150	
Net weight (Kg)		3.7	

ACCESSORIES AND OPTIONS



Universal Platforms



Test Tube Racks



Spring Wire Racks



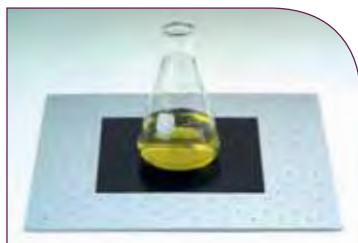
Flask Clamps



Microplate Holder



Universal Attachment



Lab Sticker



Funnel Clamps



Dual Stacking Tray



Plastic Flask Clamps



Dual Universal Platforms



Universal Harness

SPECTROPHOTOMETERS

- ▶ Single beam
- ▶ Double beam

VISIBLE AND UV SPECTROPHOTOMETERS

All units come complete with microprocessor control offering fully automated functions including auto self test. RS232 analogue output and optional software are available. The instruments feature 4nm spectral bandwidth and soft keyboard operation. They also include a large sample compartment that will accept from 5mm to 100mm path length rectangular cuvettes. These units are ideal for the many tests performed in environmental protection, water, biochemistry, clinical, food, beverage and industrial laboratories. All units have modes for Absorbance, %T and Concentration measurements. Calibration is performed against a 'blank' (Abs and %T) and a standard or factor for concentration. Wavelength selection is made electronically via a finely geared stepper motor.

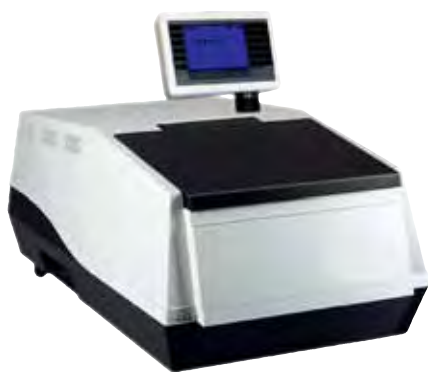
- ▶ High performance scanning
- ▶ Single and multi-wavelength operation
- ▶ Kinetics, transmittance and absorbance analysis
- ▶ Clear easy to read display
- ▶ Advanced optical system ensures very low stray light
- ▶ Superior quality optical components ensure accurate and reliable analytical data
- ▶ Deuterium and tungsten lamps are used as the light sources

SINGLE BEAM



MD-1105

Model	MD-1105	MD-2100	MD-2000UV	MD-2100UV
	Visible		UV-Visible	
Optical performance	Single beam			
Grating system (l/mm)	1200			
Spectral width (nm)	6	4	5	4
Wavelength (nm)	340-1000	320-1000	200-1000	190-1000
Accuracy (nm)	± 2	± 1	± 2	± 1
Repeatability (nm)	≤ 1	≤ 0.5	≤ 1	≤ 0.5
Mode	Transmittance, absorbance, concentration			
Display	3.5 LCD	2 line 20 character LCD		
Sample compartment L x w (mm)	100 x 50			



MD -1920

DOUBLE BEAM

Model	MD-1900	MD-1901	MD-1920
	UV-Visible		
Optical performance	Double beam		
Grating system (l/mm)	1800		
Spectral width (nm)	0.5, 1, 2, 4	1	0.5, 1, 2, 4
Wavelength (nm)	190-1100		
Accuracy (nm)	± 0.5		
Repeatability (nm)	≤ 0.1		
Mode	Transmittance, absorbance, concentration		
Display	USB connection, display on PC screen		6.4" touchscreen
Sample compartment L x W (mm)	225 x 114		

HOTPLATES AND STIRRERS

S

- Heating
- Magnetic
- Overhead
- Accessories

Hotplates & Hotplate Stirrers

- Fast and precise stirring speed even at high temperatures. (only for Hotplate Stirrers)
- High heat transfer rate.
- Hot top warning indicator and multiple overheat prevention features.
- Temperature limit setting. (up to 350°)
- Smooth start and quick stop.
- Bright digital display panel. Separate heater ON/OFF button. (except for Basic Hotplate Stirrers)

Magnetic Stirrers

- Easy to use.
- Microprocessor PID controls. (MS-G/M Models only)
- Equipped with a durable and silent BLDC motor.
- Wide speed range. (up to 2,500 rpm)
- Accurate speed control regardless of the sample weight.
- Safe control even at low speed.
- Quick real-time start of the stirring action. (MS-B/T Models only)

Overhead Stirrers

- Powerful torque capable of handling high viscosity tasks.
- Maintenance of constant motor speed by PID feedback control system even under conditions of changing viscosity. (MSM and MSP Models only)
- Wide speed range.
- Bright FND digital display panel. (MSM and MSP Models only)
- Compact and slim head design.
- Sturdy aluminum main body efficiently absorbing and emitting the heat generated by the motor.



HOTPLATES AND STIRRERS

Model			TM-14SB	TM-14RB	TM-17SB	TM-17RB
Product code			AAH34215K	AAH34315K	AAH34225K	AAH34325K
Technical Data	Heating	Temperature range (°C)	Amb. to 350			
		Control	Scale			
		Heating power (W)	600		800	
	Stirring	Speed range (RPM)	50 to 2,000			
		Capacity (Litres, H ² O)	20 / 0.71			
		Magnetic bar, max. (Ø x L, mm)	8 x 40			
	Safety	Hot top indicator (°C)	Warning lamp (50)			
		Over temp.	Top plate, Main body, PCB			
		Over current	Current limit protection			
	Motor		BLDC			
Load, Max (Kg)		25				
General Data	Top plate	Material	Ceramic coated aluminum			
		Dimension (Ø, mm)	140		170	
	Body	Material	Cast aluminum			
		Dimensions W x D x H (mm)	161 x 290 x 100	210 x 294 x 99	191 x 330 x 101	240 x 324 x 100
	Net weight (Kg)		2.8	3	3.5	3.6



Medline hot plate stirrers offer a large heating area of 180 x 180mm with safe controlled heating up to 400°C.

Product code	MS-100	MS-200	MS-300
Description	Hot plate	Stirrer	Hot plate/ Stirrer
Case construction	Ceramic coated steel (chemical resistant)		
Stage area (mm)	180 x 180		
Temperature range (°C)	Amb. to 400	–	Amb. to 400
Speed range (RPM)	–	100 to 1500	100 to 1500



MAGNETIC ANALOGUE

- Ergonomic design with low profile, lightweight body and non slip rubber feet
- Non-slip silicone plate covers
- Built in thermal shutdown and current limiter protector
- Spark less, silent and durable BLDC motor

Model		MS-12B	MS-17B	MS-22B
Product code		AAH34215	AAH34315	AAH34325
Technical data	Speed control	Electronic speed control		
	Stirring capacity (Litre, H ₂ O)	2	4	5
	Speed (RPM)	150 to 2,500		
	Speed display	—		
	Load, max (Kg)	15	20	25
Top plate	Material	Polypropylene with non-slip silicone cover		
	Dimension (mm Ø)	120	170	220
General data	Body material	Polypropylene (blue)		
	Dimensions W x D x H (mm)	130 x 130 x 65	185 x 185 x 65	230 x 230 x 65
	Net weight (Kg)	0.6	0.9	1.1

MAGNETIC DIGITAL

- Bright and vivid VFD touch responsive control buttons
- Gradual start up mechanism to prevent accidental spillages
- M12 threaded hole to hold a support rod

Model		MS-17G	MS-22G
Product code		AAH331215	AAH331315
Technical data	Speed control	Feedback control with PID	
	Stirring capacity (Litre, H ₂ O)	4	5
	Speed (RPM)	30 to 2,000	
	Speed display	VFD	
	Load, max (Kg)	20	25
Top plate	Material	Polypropylene with non-slip silicone cover	
	Dimensions (mm Ø)	170	220
General data	Body material	Polypropylene (blue)	
	Dimensions W x D x H (mm)	210 x 280 x 72	260 x 360 x 72
	Net weight (Kg)	1.35	1.75

MAGNETIC MULTI-POSITION

- Chemical resistant stainless steel top plate (transparent non-slip silicone mat optional)
- Multiple operation and time setting modes to allow unique system / user demands
- Vivid LED position indicating lamps

Model			MS-23M	MS-32M	MS-33M	MS-51M	MS-52M	MS-53M
Product code			AAH332115	AAH332215	AAH332315	AAH332415	AAH332515	AAH332615
Technical data	Speed control		Feedback control with PID					
	Stirring	Positions	6	6	9	5	10	15
		Speed (RPM)	30 to 2,000					
	Timer		1 min. to 99 hours 59 min.					
	Load, max (Kg)		30					
General data	Dimensions W x D x H (mm)		377 x 434 x 81	254 x 434 x 81	377 x 434 x 81	130 x 591 x 75	251 x 591 x 75	378 x 591 x 75
	Net weight (Kg)		6	5	7	4	8	11

Dynamic stirring, simple operation, and sustainable economic benefits - for tasks of up to 50 liters. (H₂O) Sturdy aluminum main body efficiently absorbing and emitting the heat generated by the motor.



OVERHEAD ECONOMY

Features

- ▶ Compact and slim head design.
- ▶ Powerful torque capable of handling high viscosity tasks.
- ▶ Safety features against overload and overheating.
- ▶ Sequential auto-stop safety visible warning audible warning auto-stop.
- ▶ High speed, vibration-free, and silent operation.
- ▶ Speed adjustment dial knob.
- ▶ A wide range of accessories available.
- ▶ Well illuminated digital display panel with sensitive touch buttons.
- ▶ Convenient emergency stop feature.
- ▶ Displayed modes: rpm, power ratio. (%)

Model		MSM-1	MSM-2	MSM-3
Product code		AAH370115K	AAH370215K	AAH370315K
Technical Data	Speed control	Analog		
	Speed range (RPM)	50 to 1,400	50 to 1,200	50 to 900
	Display	Digital		
	Stirring capacity (L, H ₂ O)	20	30	50
	Torque, max. (Nácm)	15	27	53
	Power max. (W/A)	15	20.4	31.2
General Data	Body material	Aluminum + Polypropylene		
	Dimensions W x D x H (mm)	65 x 135 x 190	70 x 150 x 200	70 x 150 x 215
	Net weight (Kg)	2	2.5	3



OVERHEAD ADVANCED (DIGITAL)

Features

- ▶ Compact and slim head design.
- ▶ Microprocessor controlled smooth start and stop function.
- ▶ Maintenance of constant motor speed by PID feedback control system even under conditions of changing viscosity.
- ▶ Powerful torque capable of handling high viscosity tasks.
- ▶ Bright digital display panel with touch sensitive buttons.
- ▶ Selectable display modes: rpm, power ratio (%), motor temp, and run time.
- ▶ Convenient emergency stop feature.
- ▶ Safety features against overload and overheating.
- ▶ High speed, vibration-free, and silent operation.
- ▶ Speed adjustment dial knob.
- ▶ Built-in USB port for external control and data collection. (Lab Companion software required)

Model		MSP-1	MSP-2	MSP-3
Product code		AAH371115K	AAH371215K	AAH371315K
Technical Data	Speed control	PID feedback control		
	Speed range (RPM)	50 to 1,400	50 to 1,200	50 to 900
	Display	Digital		
	Stirring capacity (L, H ₂ O)	20	30	50
	Torque, max. (Nácm)	15	27	53
	Power max. (W/A)	15	20.4	31.2
General Data	Body material	Aluminum + Polypropylene		
	Dimensions W x D x H (mm)	65 x 135 x 190	70 x 150 x 200	70 x 150 x 215
	Net weight (Kg)	2	2.5	3

ACCESSORIES AND OPTIONS

HOT PLATES / MAGNETIC STIRRERS



Heating Bath



Transparent Safety Shield



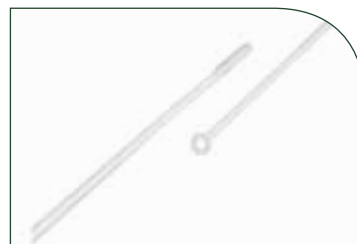
Support Rods



Clamp Holders (C-10, C-7, C-5)

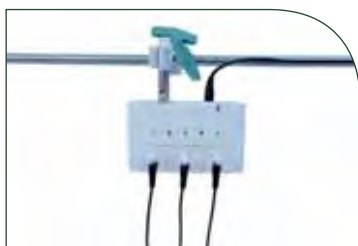


Magnetic Stirring Bars



Plastic Retrievers (PP)

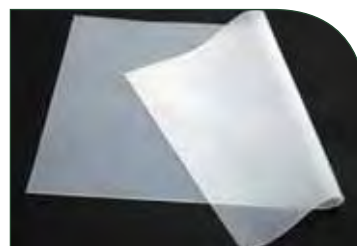
MAGNETIC STIRRERS



Power Divider (5 channels*)



Plate Covers (Black & White)

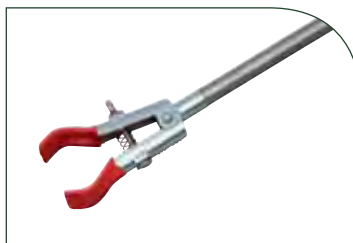


Silicone Pad

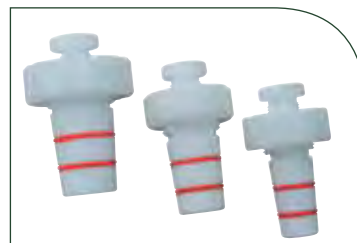
OVERHEAD STIRRERS



Stands



Prong Clamps



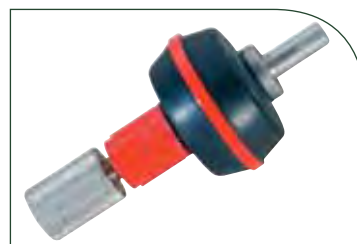
Stirring Seals



Stainless Steel Impellers



PTFE Impellers



Flexible Coupling

TEMPERATURE CHAMBERS

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- ▮ Tabletop Models
- ▮ Floor-standing Models
- ▮ Accessories

Safety Features

- ▮ Self-protecting cut-off function.
- ▮ Over temperature, electrical leakage or over voltage automatically cuts the power from the unit, in an orderly fashion, starting with the heating element then the controller unit.
- ▮ Time setting function for automated RUN / OFF:
- ▮ Enable automatic start and shut off of a unit at any specific time.
- ▮ A timer can be set for a month and data can be recorded in time, day, or weekly intervals.
- ▮ Door-open warning alarm.
- ▮ Intermittent toned alarm audible alarm and visual alarms.
- ▮ Heating element, fan, and platform automatically stops when the door is opened to minimize heat loss and to ensure user safety.

Optimum Control Features

- ▮ Microprocess PID control / Auto-tuning / Calibration.
- ▮ CPU logic control system.
- ▮ Optimum control of temperature with economical controls that reduces power consumption.
- ▮ Touch screen type display.
- ▮ 5.7-inch Color LCD display with interactive input system. (Floor Standing Models only)

- ▮ Temperature / timer settings, and operation condition.
- ▮ Temperature and other operating parameters can be recorded using a chart recorder. (Optional)
- ▮ Easily visible set value: set point (SP) / pre-set value (PV) are also added on the colorful LCD controller.

Protect the Global Environment

- ▮ Use of HFC refrigerant prevents damage to the ozone layer.
- ▮ Complies with the Montreal Protocol on Substances That Deplete the Ozone Layer control measures.
- ▮ Testing for electric and electronic component, sensors.
- ▮ Testing of semiconductors, PCB's, LCD's & LED's.
- ▮ Pharmaceutical tests.
- ▮ Mechanical / Military / Aircraft engineering.
- ▮ Automobile, Transport / automobile supply industries.
- ▮ Chemical / Petrochemical industries.
- ▮ Construction materials / Plastic / Textile industries.
- ▮ Testing moulds, liquor, cigars, paintings.
- ▮ Testing metals related to industries such as plating.



TABLETOP

Model		TC-ME-025	TC-ME-065	TC-ME-100
Product code		AAH86012K	AAH86022K	AAH86032K
Chamber volume (Litres)		25	65	100
Temperature	Range (°C)	Program controller (LCD type)		
	Program control (°C)	-15 to 120		
	Fluctuation at 100°C (±°C)	0.4	0.3	0.3
	Variation at 100°C (±°C)	2	1.9	1.8
Time	Heating (Min.)	55 From -15°C to 120°C		
	Cooling (Min.)	60 From 20°C to -15°C on single point control		
Refrigeration	System	Mechanical single stage refrigerator system (air-cooled condenser)		
	Refrigerant	R-404A		
	Capacity (W)	250	250	375
Air flow system		Sirocco fan (60W)		
Dimensions W x D x H (mm)	Internal (mm)	350 x 220 x 350	400 x 330 x 495	500 x 380 x 530
	External (mm)	500 x 760 x 850	550 x 890 x 1000	650 x 1000 x 1030
Net weight (Kg)		85	115	135



Constructional Features

- ▶ High quality #304 stainless steel exterior and interior.
- ▶ Casters for easy mobility when installing or moving.
- ▶ Convenient maintenance-available to view total operating time.
- ▶ Spacious chamber volume maximum capacity of 1500L.
- ▶ Unique door lock & trim.
- ▶ Vice lock type door and foam silicone packing to ensure a perfect seal.
- ▶ Door open warning alarm.
- ▶ Inner door.
- ▶ Optional inner glass door comes with four holes to handle samples inside the chamber. (excludes chambers with volume capacities of 800L or 1500L)
- ▶ Ventilation vent is located at the upper right side of the unit.
- ▶ Chart recorder. (optional)
- ▶ 6-point dot type recorder with a digital display.
- ▶ Viewing window for observation.
- ▶ Tempered glass window provides a clear view of samples in the chamber, beneficial during testing.
- ▶ Fluorescent lighting source included.
- ▶ Cable port for external probes or wires.
- ▶ 50mm diameter cable port comes standard on the left side of the unit. Additional 50mm or 80mm diameter cable ports can be custom ordered. (optional)
- ▶ Easy cleaning of condenser air-filter. To prevent deterioration of refrigeration system and keep filter dust free by periodically cleaning the filter.

FLOOR STANDING

Model		TC-G-180	TC-G-300	TC-G-408	TC-G-800	TC-G-1000	TC-G-1500
Product code		AAH81412K	AAH81422K	AAH81432K	AAH81442K	AAH81452K	AAH81462K
Chamber volume (Litres)		180	300	408	800	1000	1500
Temperature	Range (°C)	-35 to 150					
	Fluctuation at 100°C (±°C)	0.2			0.1		
	Variation at 100°C (±°C)	0.9	1	0.8	0.4	0.5	0.5
Time	Heating (Min.)	50 (-35 to 120°C)			60 (-35 to 120°C)		
	Cooling (Min.)	60 (20 to -35°C)					85 (20 to -35°C)
Refrigeration	System	Mechanical single stage refrigerator system (air-cooled condenser)			Mechanical dual stage refrigerator system (air-cooled condenser)		
	Refrigerant	R-404A			R-404A (1st step), R-23 (2nd step)		
	Capacity (W)	1500			4250	6000	
Air flow system		Tangent blower (90W)			4x sirocco fans (4 x 90W)		
Cable port		One hole provided / Ø 55mm (Maximum of two holes available)					
Dimensions W x D x H (mm)	Internal	500 x 630 x 600	600 x 630 x 800	600 x 850 x 800	1000 x 800 x 1000	1000 x 1000 x 1000	1000 x 1000 x 1500
	External	1025 x 1035 x 1530	1120 x 1070 x 1730	1120 x 1240 x 1730	1570 x 1245 x 2060	1570 x 1445 x 2060	1570 x 2045 x 2560
	Viewing windows	200 x 330			270 x 330		
Net weight (Kg)		320	385	410	620	680	760

ACCESSORIES AND OPTIONS



Viewing Window



Recorder



Cable Port

TEMPERATURE AND HUMIDITY CHAMBERS

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- ▶ Tabletop Models
- ▶ Floor-standing Models
- ▶ Plant Growth Chambers
- ▶ Accessories

Safety Features

- ▶ Self-protecting cut-off function.
- ▶ Time setting function for automated RUN / OFF.
- ▶ Low fluid level protection water leakage alarm.
- ▶ Intermittent toned alarm audible alarm and visual alarms.
- ▶ Door-open warning alarm.



Temperature & Humidity Chambers

Test for reliability, durability, climatic, freezing resistance, quality assurance, thermal endurance etc.

- ▶ Testing of electric and electronic components and sensors.
- ▶ Testing for semiconductors, PCB's, LCD's & LED's.
- ▶ Pharmaceutical tests.
- ▶ Mechanical / Military / Aircraft engineering.
- ▶ Automobile, Transport / automobile supply industries.
- ▶ Chemical / Petrochemical industries.
- ▶ Construction materials / Plastic / Textile industries.
- ▶ Testing moulds, liquor, cigars, paintings.
- ▶ Testing metals related to industries such as plating.

Optimum Control Features

- ▶ Microprocessor PID control / Auto-tuning / Calibration.
- ▶ Optimized CPU logic control system.
- ▶ Touch screen LCD display.
- ▶ 5.7-inch Color LCD display with interactive input system. (Floor Standing Models only)

Protect the Global Environment

- ▶ Use of HFC refrigerant prevents damage to the ozone layer.
- ▶ Complies with the Montreal Protocol on Substances That Deplete the Ozone Layer control measures.

Plant Growth Chambers

- ▶ Agriculture experiment with growth of plants.
- ▶ Growth experiment of animals and insects.
- ▶ Food preservation experiments.
- ▶ Genetic of life science researches.
- ▶ Genetic researches and pathology of plants.
- ▶ Retardation researches of seeds.
- ▶ Tissue culture of plants and germinating researches of seeds.

TABLETOP

Model	TH-ME-025	TH-ME-065	TH-ME-100	TH-PE-025	TH-PE-065	TH-PE-100
Product code	AAH82112K	AAH82122K	AAH82132K	AAH82212K	AAH82222K	AAH82232K
Chamber volume (Litres)	25	65	100	25	65	100
Temperature	Range (°C)	-20 to 120 (without humidity)			0 to 120 (without humidity)	
	Fluctuation at 100°C (±°C)	0.2	0.3	0.2	0.2	0.3
	Variation at 100°C (±°C)	0.3	0.3	0.3	0.3	0.3
Humidity	Range (%RH)	Full range: 20 to 95 45 to 75 at 15°C 40 to 95 at 20°C 20 to 95 at 40 to 80°C 20 to 90 at 90°C			Full range: 30 to 95 45 to 95 at 20°C 30 to 95 at 30 to 80°C 30 to 90 at 85°C	
	Air flow system (sirocco fan)	60W x 1		60W x 2	60W x 1	
Water supply	Capacity (Litres)	5	6	9	5	6
	Water quality	pH6.2 to 7.2 / Electrical conductivity 20µs/cm to below				
Dimensions W x D x H (mm)	Internal	350 x 220 x 350	400 x 330 x 495	500 x 380 x 530	350 x 220 x 350	400 x 330 x 495
	External	500 x 760 x 850	550 x 890 x 1000	650 x 1000 x 1030	500 x 760 x 850	550 x 890 x 1000
Net weight (Kg)	85	115	135	85	115	135



Constructional Features

- ▶ Standard environmental test chambers.
- ▶ High quality #304 stainless steel exterior and interior.
- ▶ Casters for easy mobility when installing or moving temp. and Humid. test chamber.
- ▶ Convenient maintenance-available to view total operating time.
- ▶ Spacious chamber volume maximum capacity of 1500L.
- ▶ Unique door lock & trim.
- ▶ Ventilation.
- ▶ Chart recorder. (optional)
- ▶ Container type tank for easy adding and changing of water.
- ▶ Viewing window for observation.
- ▶ Cable port for external probes or wires.
- ▶ Easy cleaning of condenser air-filter.

Operating Features

- ▶ Microprocess PID control / Auto-tuning / Calibration.
- ▶ Chamber supports three different languages:
- ▶ Optimize CPU logic control system.
- ▶ Touch screen type display.
- ▶ Programming operation.
- ▶ Computer interface.
- ▶ RS-485 communication port offers connection of a maximum of 9 temperature chamber units to one PC. (optional)

Safety Features

- ▶ Leakage breaker for power supply.
- ▶ Over current protection.
- ▶ Overheat / overcool protection.
- ▶ Switch-off after alarm for over heating.
- ▶ Water empty alarm.
- ▶ Door open alarm.
- ▶ Vice lock door type locking mechanism.

FLOOR STANDING STANDARD TYPE

Model		TH-TG-180	TH-TG-300	TH-TG-408	TH-TG-800	TH-TG-1000	TH-TG-1500						
Product code		AAHC2002	AAHC2012	AAHC2022	AAHC2032	AAHC2042	AAHC2052						
Chamber volume (Litres)		180	300	408	800	1000	1500						
Temperature	Range without humidity (°C)	-35 to 150											
	Range with humidity (°C)	15 to 90			20 to 90								
	Fluctuation (°C)	0.1	0.2		0.3								
Humidity	Range (%RH)	40 to 85 at 15°C 25 to 98 at (25 to 80°C) 25 to 80 at ≥ 90°C			50 to 90 at 20°C 45 to 95 at (25 to 80°C) 40 to 80 at ≥ 90°C								
	Fluctuation (±%RH)	0.3	0.4	0.3	0.5	0.6	1						
Time	Heating (Mins)	50 (-35°C → 120°C)			60 (-35°C → 120°C)								
	Cooling (Mins)	60 (120°C → -35°C)					85 (120°C → -35°C)						
Refrigeration capacity (W)		1500			4250		6000						
Airflow system		Tangent blower (90W)			4 x Sirocco fans (4 x 90W)								
Material	Internal	Stainless Steel #304											
	External												
	Insulation							Polyurethane foam (100mm)					
	Door							Glass wool					
Water supply	Capacity (Litres)	15 (Cartridge type)			Direct water supply system								
	Water quality	pH6.2 to 7.2 / Electrical conductivity 20µs /cm to below											
Cable port		One hole provided / Ø 55mm (Maximum of two holes available)											
Dimensions W x D x H	Internal (mm)	500 x 630 x 600	600 x 630 x 800	600 x 850 x 800	1000 x 800 x 1000	1000 x 1000 x 1000	1000 x 1000 x 1500						
	External (mm)	1025 x 1035 x 1530	1120 x 1070 x 1730	1120 x 1240 x 1730	1570 x 1245 x 2060	1570 x 1445 x 2060	1570 x 2045 x 2060						
	Viewing window (mm)	200 x 300			270 x 300								
Net weight (Kg)		320	385	410	620	680	760						



Constructional Features

- High quality #304 stainless steel exterior and interior.
- Casters for easy mobility when installing or moving.
- Convenient maintenance-available to view total operating time.
- Spacious chamber volume maximum capacity of 1500L.
- Unique door lock & trim.
- Vice lock type door and foam silicone packing to ensure a perfect seal.
- Door open warning alarm.
- Inner door.
- Optional inner glass door comes with four holes to handle samples inside the chamber. (excludes chambers with volume capacities of 800L or 1500L)
- Ventilation vent is located at the upper right side of the unit.
- Chart recorder. (optional)
- 6-point dot type recorder with a digital display.
- Viewing window for observation.
- Tempered glass window provides a clear view of samples in the chamber, beneficial during testing.
- Fluorescent lighting source included.
- Cable port for external probes or wires.
- 50mm diameter cable port comes standard on the left side of the unit. Additional 50mm or 80mm diameter cable ports can be custom ordered. (optional)
- Easy cleaning of condenser air-filter. To prevent deterioration of refrigeration system and keep filter dust free by periodically cleaning the filter.

FLOOR STANDING ADVANCED TYPE

Model		TH-TG-180	TH-TG-300	TH-TG-408	TH-TG-800	TH-TG-1000	TH-TG-1500
Product code		AAHC2002K	AAHC2012K	AAHC2022K	AAHC2032K	AAHC2042K	AAHC2052K
Chamber volume (Litres)		190	300	410	760	960	1500
Temperature range with humidity (°C)		+10 to 90					+15 to 85
Temperature range without humidity (°C)		-5 to 100					
Fluctuation (°C)		0.3					0.5
Humidity	Range (%RH)	Full range: 10 to 95 40 to 90 at 10°C 30 to 95 at 20°C 10 to 95 at (50°C to 80°C) 10 to 80 at 90°C					Full range: 20 to 95 40 to 90 at 15°C 30 to 95 at 30°C 20 to 95 at (50°C to 80°C) 20 to 85 at 85°C
Time	Heating	50min (-5°C → 100°C)			55min (-5°C → 100°C)		
	Cooling	120min (100°C → -5°C)			145min (100°C → -5°C)		
Refrigeration	Capacity (W)	150	250	250	470	470	470 x 2
Air flow system		2x sirocco fans (2 x 60 W) : Vertical type					4x sirocco fans (4 x 60W) : Vertical type
Material	Internal	SUS #304 (2B polish)					
	External	SUS #304 (Hairline finish) & Steel, 2t, Double painted & baked					
	Insulation (mm)	Polyurethane (70mm / 2.76")					
	Door	Glasswool					
Water supply	Capacity (Litres)	15					30
	Water quality	pH6.2 to 7.2, Electrical conductivity 20µs/ cm to below					
Cable port		One hole provided / Ø 55mm (Maximum of two holes available)					
Viewing window (mm)		230 x 340 (option)					
Dimensions W x D x H (mm)	Internal	500 x 650 x 600	750 x 650 x 650	750 x 850 x 650	750 x 880 x 1160	750 x 1110 x 1160	1000 x 1000 x 1500
	External	880 x 945 x 1465	1130 x 945 x 1520	1130 x 1045 x 1520	1220 x 1175 x 1965	1220 x 1415 x 1965	1450 x 1900 x 2065
Net weight (Kg)		230	260	290	370	420	490



Additional TH-ICH 300/800 Features

- ▶ In the event of a validation the apparatus correctly controls each light and then transfers accurate data and is equipped with light sensors.
- ▶ Samples that have to be exposed to the light in which it is completely near the UV energy of less than 200W-hr/m² is provided to compare directly with the results from overall intensity of less than 1.20 million lux-hr, drug substances and reagent.
- ▶ Total fluorescent lamp and UV lamp indicator and operating time indicator.

Safety Features

- ▶ Leakage breaker for power supply.
- ▶ Over current protection.
- ▶ Overheat protection.
- ▶ Switch-off after alarm for over heating.
- ▶ Door open alarm.
- ▶ Water empty.
- ▶ Vice type door locking mechanism. (optional)
- ▶ Alarm for completed Photostability Test. (only TH-ICH Models)

FLOOR STANDING ICH TYPE

Model		TH-ICH-300	TH-ICH-800
Product code		AAHC1002K	AAHC1012K
Chamber Volume (Litres)		300	760
Temperature	Range	-5 to 85 (without Light) 0 to 85 (with Light)	
	Without humidity (°C)		
	With humidity (°C)	+15 to 85 (with Light)	
Fluctuation (°C)		0.3	
Humidity	Range (%RH)	FULL RANGE: 20 to 85 40 to 80 at 15°C 30 to 85 at 30°C 20 to 85 at 50°C to 85°C	
	Fluctuation (%RH)	0.3	
Light source (ICH Q1B OPTION)	Cool White	6,000 lux	6,500 lux
	Ultraviolet-A	4.5 W/m ²	5 W/m ²
Typical time required to reach ICH		≡ 200Hr	≡ 184Hr
Typical time required to reach ICH		≡ 50Hr	≡ 40Hr
Time	Heating	25min (20°C → 85°C)	30min (20°C → 85°C)
	Cooling	120min (100°C → -5°C)	35min (20°C → -5°C)
Refrigeration	Capacity (W)	150	250
Air flow system		2 set of sirocco fan (2 x 60 W) : Vertical type	
Material	Internal	SUS #304 (2B polish)	
	External	SUS #304 (Hairline finish) & Steel, 2t, Double painted	
	Insulation	Polyurethane (70mm)	
	Door	EPDM Sheet	
Water supply	Capacity (Litres)	15	
	Water quality	pH6.2 to 7.2, Electrical conductivity 20µs/cm to below	
Cable port		One hole provided / Ø 55mm (Maximum of two holes available)	
Dimensions W x D x H (mm)	Internal	750 x 650 x 650	750 x 880 x 1160
	External	1130 x 985 x 1520	1220 x 1215 x 1965
Net weight (Kg)		290	410

ACCESSORIES AND OPTIONS



Viewing Window



Recorder



Cable Port



Operating Features

- Microprocessor PID control / Auto-tuning / Calibration.
- Digital timer: 1 min to 99 hr 59 min.
- Over-temperature limit / Door open alarm.
- 10 step programmable temperature, humidity, and illumination profiles and repeat the steps up to 999 cycles. (self-testing)
- 300 to 5,000ppm CO₂ control system. (optional)

Safety Features

- Leakage breaker for power supply.
- Over current protection.
- Over heat protection with alarm.
- Door opening alarm.
- Low and empty water level alarm. (TLH Models only)

Constructional Features

- High quality #304 grade stainless steel interior and dirt repellent powder coated exterior surface.
- User-friendly door system.
- Wide inner tempered glass door provides a full view of the samples.
- Powerful air circulator for smooth airflow.
- High frequency electronic ballast lamps.
- Easy cleaning of condenser air-filter.
- Casters for easy mobility when installing or moving environmental testing chamber.
- Electronic humidity sensor is fast acting and easy to calibrate.
- Dual type water level sensor.
- Adjustable water tank positions. (only for GC-300TLH)
- Removable shelving and rounded inner chamber corners for easy cleaning.

PLANT GROWTH CHAMBERS

Enough capacity, maximum 1000L to satisfy the user's plant growth needs.

User-friendly programmable logic microprocessor, streamlined design, with optimized air flow and temperature flexibility.

Model		GC-300TL		GC-300TLH	GC-1000TLH
Product code		AAHA1012K		AAHA1022K	AAHA1032K
Chamber volume (Litres)		300			1000
Temperature	Range (°C)	5 to 50 (Lamp off)			
		10 to 50 (Lamp on)			
		20 to 50 (with humidity)			
	Fluctuation at 25°C (±°C)		0.1 (without humidity)		
	Variation at 25°C (±°C)		0.8 (without humidity)		
Illumination	Range (Lux)	-	0 to 20,000		0 to 35,000
	Control (steps)	10			11
	Lamp	FI lamp (32W x 18)			FL lamp (32W x 16) Metal lamp (400W x 3)
Humidity	Range (RH %)	-	40 to 80 at (20 to 35°C)		50 to 90 at (20 to 35°C)
		-	60 to 90 at (36 to 50°C)		70 to 90 at (36 to 50°C)
	Fluctuation at 60% RH (±RH)		-	3	
CO ₂ (optional)	Range (ppm)	300 to 5,000			
	Sensor	NDIR CO ₂ sensor			
Refrigerant (HP)		1/2			3/4
Temperature heater power (W)		750 x 2			1,500 x 2
Humid. heater power (W)		-	1300		1500
Dimensions W x D x H (mm)	Internal (mm)	510 x 540 x 1100			1200 x 800 x 1080
	External (mm)	700 x 805 x 1900			1410 x 1070 x 2150
Net weight (Kg)		250			550

TUBING AND MEDICAL GAS HOSE

- ▶ Rubber Tubing
- ▶ Bunsen Tubes
- ▶ Silicone Tubing
- ▶ Medical Gas Hose



RUBBER TUBING

Product Code	Description	Coil length (m)
211502	Red Rubber Tube 5.00 x 1.50mm	20
211503	Red Rubber Tube 6.50 x 1.50mm	
211504	Red Rubber Tube 8.00 x 2.00mm	
212502	Neoprene Tube 5.00 x 1.50mm	
212503	Neoprene Tube 6.50 x 1.50mm	
212504	Neoprene Tube 8.00 x 2.00mm	

REINFORCED BUNSEN TUBES

Product Code	Description	Coil length (m)
215450	Bunsen Tube (R/E) Neo. 450mm	0.45
215600	Bunsen Tube (R/E) Neo. 600mm	0.60
215900	Bunsen Tube (R/E) Neo. 900mm	0.90



SILICONE TUBING

Product Code	Description	Coil length (m)
21300515	Silicone Tube 3.0 x 1.0mm	15
21301015	Silicone Tube 5.0 x 1.5mm	
21301215	Silicone Tube 6.0 x 2.0mm	
21301715	Silicone Tube 8.0 x 2.0mm	
21303415	Silicone Tube 8.0 x 2.5mm	

Additional sizes and coil lengths available on request. Please contact Medline Scientific for further details



MEDICAL PURE HOSE (PHTHALATE FREE)

Product Code	Description	Coil length (m)
108601PF	ESD PU gas hose (O ₂) / White / 6.7 x 12.7mm	30
108602PF	ESD PU hose (Air) / Black / 6.7 x 12.7mm	
108603PF	ESD PU hose (Vacuum) / Yellow / 6.7 x 12.7mm	
108604PF	ESD PU hose (N ₂ O) / Blue / 6.7 x 12.7mm	
108605PF	ESD PU hose (O ₂ / N ₂ O) / Blue+White / 6.7 x 12.7mm	
108606PF	ESD PU hose (CO ₂) / Grey / 6.7 x 12.7mm	

PVC Gas hose still available in both 30m rolls and 150m drums

We also supply a full range of medical gas fittings and hose assemblies.



VORTEX MIXERS



Features

- Well-balanced design and optimized safety features.
- Low-profile with small footprint ideal for use on lab benches and within fume hoods or clean benches.
- Real-time mixing for thanks to highly touch sensitive switch.
- Selective mixing modes with Variable speed control knob.
- Built-in LED lamps in case of VM-96B for easy recognition of mixing mode selected.
- Sparkless BLDC motor adopted for safety, quick acceleration, and low maintenance.
- Built-in safety features against overload and over current.
- Chemically resistant PP (polypropylene) molded exterior.
- A wide range of accessories available. (rubber platform comes standard)

Product code	AAH-360115
Shaking motion	Orbital
Orbital diameter (mm)	4
Speed range (RPM)	0 to 3000rpm
Operating mode	Touch, continuous and high continuous
Dimensions W X D X H (mm)	155 x 210 x 83
Net weight (Kg)	3.1



Ideally sized for personal use, the Medline VM-3000 vortex mixer is compact, with a low profile and small footprint, to sit in almost any location, yet there is no compromise on performance. The strong, reliable and silent motor produces regulated and reproducible agitation throughout the speed range utilizing either touch activation or continuous modes. Suction cups on the base minimize any vibration and movement.

Supplied with tube adapter and flask accessories (additional accessories also available)

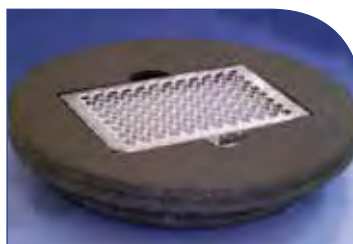
Product code	VM-3000MD
Shaking motion	Orbital
Orbital diameter (mm)	4
Speed range (RPM)	20 to 3000rpm
Operating mode	Touch, continuous
Dimensions W X D X H (mm)	130 x 155 x 155
Net weight (Kg)	4



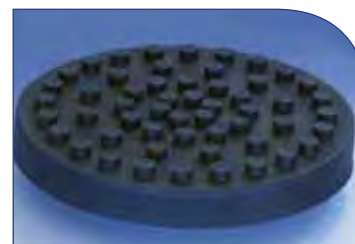
ACCESSORIES & OPTIONS



Microtube Accessory



Microtitre Plate Accessory



Flask Accessory

OTHER PRODUCTS

- ▶ Autoclaves
- ▶ Electric Aspirator
- ▶ Flask Supports
- ▶ Ice Pans
- ▶ Recirculating Coolers
- ▶ Tube Racks
- ▶ Ultrasonic Cleaners
- ▶ Viscosity Baths



AUTOCLAVES

Table top autoclaves for the modern laboratory, the pharmaceutical and food industry as well as for special applications. Innovations for safe, accurate, reproducible and validation for sterilisation in research and industry within the dental, medical, cosmetic, laboratory, veterinary and tattoo fields.

Our autoclaves are produced under the most rigorous system of quality control certifications in accordance to ISO13485 and TUV CE0197.

All models are fully automatic with LCD display, independent steam generator, temperature and pressure monitoring systems. Every unit comes equipped with a unique high precision control system and automatic alarm for water level, door locking and cycle errors.

Product code	MDB8C	MDB18C	MDB23C
Volume (Litres)	8	18	23
Chamber size (mm)	170 x 320	247 x 350	247 x 450
Power (W)	1500	2200	
Printer (external)	Optional		
Double door locking	Yes		
No. of trays (max)	2	4	
Dimensions (mm) W x D x H	370 x 565 x 345	480 x 700 x 455	480 x 700 x 455
Net weight (Kg)	34.50	51	58



ELECTRIC ASPIRATOR

By creating a vacuum by means of the 'Venturi' effect, the VE-11 aspirator pump are suitable for rotary vacuum evaporation, decompression distillation, vacuum drying, and vacuum filtering.

A Built-in circulating pump and water tank make the unit portable. The circulating pump continuously pumps water quietly across a set of aspirators, and is therefore clean and efficient and the built-in check valve prevents backflow of water into the aspirator pump.

Manufactured from Corrosion-resistant construction of all wetted parts with 304 stainless steel, polypropylene, silicone, or nickel-coated brass.

Model	VE-11	
Product code	71015	
Bath volume (Litres)	9.5	
Maximum Vacuum (Mpa)	0.0998	
Free air capacity (L p/m)	18 (x2)	
Material	Bath	Polypropylene
	Aspirator	Nickel-coated Brass (2 pcs)
Dimensions	Internal (W x L, D)	298 x 210, 227
	External (W x L x D)	330 x 265 x 390
Net weight (Kg)	5.7	



FLASK SUPPORTS

Manufactured from chemically resistant polypropylene, these unique flask supports are resistant to various organic solvents and heat resistant to -30°C to +121°C, thus allowing them to also hold ice. Convenient grip for ease of transport and each support has a clear name tag for identification.

Model	AAA23706	AAA23701	AAA23707	AAA23702
Capacity	100ml		250ml	
Hole diameter (mm)	70		98	98
Number of positions	3	12	2	6
Dimensions (mm) W x D x H	310 x 100 x 100	384 x 265 x 98	280 x 125 x 130	389 x 239 x 130

Model	AAA23703	AAA23704	AAA23705
Capacity	500ml	1000ml	2000ml
Hole diameter (mm)	121	148	183
Number of positions	2		
Dimensions (mm) W x D x H	360 x 146 x 135	415 x 192 x 165	503 x 223 x 199



ICE PAN

The rigid single mould urethane foam construction provides high durability and excellent insulating properties together with being totally waterproof, leak proof and unbreakable with normal use. The rim enables safe handling and transport.

The ice pans can be used with the 'On-Ice' racks (optional) that are manufactured from scratch proof, high heat transfer aluminium.

Product code	AAA23801
Model	IBS-310
Volume	4
Dimensions W x D x H (mm)	347 x 257 x 132
Net weight (Kg)	1.4

RECIRCULATING COOLERS

Powerful recirculating coolers, the HL Models provide a wide range of cooling capacities with temperature reliability.

Innovative control system, with a dynamic pumping capacity, and ideal for external temp. applications. Broad range of models to choose from based on working temperature range.



Model		HL-10	HL-20	HL-20H	HL-35H
Product code		AAH65012	AAH65022	AAH65132	AAH65152
Volume (Filling capacity)		7.5	13.5		25
Temperature	Range (°C)	-20 to 40			
	Stability (°C)	1			
Cooling capacity	at 20°C	0.70	1.80	1.80	3.30
	at 10°C	0.60	1.50	1.50	2.30
	at 0°C	0.42	1.15	1.15	1.70
	at -10°C	0.32	0.85	0.85	1.00
	at -20°C	0.14	0.40	0.40	0.55
Pump	Max Flow rate (L / min)	50		40	
	Max Pressure (bar)	1		2.8	
Dimensions	Max. Tubing Diameter (mm)	20			
	Overall W X L X H	405 x 620 x 710	515 x 715 x 835		550 x 900 x 1140
Net weight (Kg)		65	88	93	147

OTHER PRODUCTS



TUBE RACKS

Manufactured from chemically resistant polypropylene, these unique flask supports are resistant to various organic solvents and heat resistant to -30°C to +121°C, thus allowing them to also hold ice. Convenient grip for ease of transport and each support has a clear name tag for identification.

Model	1.5 / 2.0ml Micro-tube rack 0.2 / 0.5ml Micro-tube rack
Product code	AAAJ2311
Material	PC (Polycarbonate)
Max. number of mountable tubes	80 (5 x 16)
Dimensions (mm) W x D x H	269 x 90 x 50 (including lid)

Model	30ml Centrifuge tube rack
Product code	AAAJ2111
Material	PC (Polycarbonate)
Max. number of mountable tubes	6
Dimensions (mm) W x D x H	263 x 55 x 55

Model	15ml Conical tube rack		50 Conical tube rack
Product code	CPS0011	CPS0012	AAAJ2211
Material	ABS (Acrylonitrile-butadienestyrene)		PC (Polycarbonate)
Max. number of mountable tubes	30 (3 x 10)	12 (2 x 6)	6 (1 x 6)
Dimensions (mm) W x D x H	269 x 85 x 72		263 x 55 x 55



ULTRASONIC CLEANERS

Industrial B.L.T type ultrasonic transducer (Bolt Clamped Langevin Type Transducer) generates high-frequency sound waves that provide maximum cleaning power, the output can be set to high, medium or low in 3 easy stages.

Manufactured from Durable leakproof ABS / PBT housing and cover with 304 stainless steel tanks which are fully waterproof and corrosion-resistant.

- Stainless steel basket supplied as standard.

Model		UC-02	UC-10(10P)	UC-20(20P)
Product code		BDH53015	BDH53045 (BDH53055)	BDH53065 (BDH53075)
Bath volume (Litres)		2	10	20
Temperature range (°C)		Amb. to 50	Amb. to 70	
Ultrasonic power (W)		70	200 (300)	400 (500)
Dimensions	Internal (w x L, D)	142 x 135, 104	300 x 240, 150	495 x 292, 150
	External (w x L x D)	290 x 210 x 200	490 x 368 x 297	721 x 451 x 297
Net weight (Kg)		2	11	17

VISCOSITY BATHS

High precision heating baths for kinematic viscosity measurement with microprocessor PID controls and digital LED display.

All units supplied with double tempered safety glass windows, baffle plate screen and stainless steel cooling coil.

- RS-232 interface and Lab Tracer software



Model	VB-25G	VB-40G
Product code	43302	43402
Chamber volume (Litres)	25	40
Temperature range	Amb. +5°C to 150°C	
Bath opening / Depth W x L, D (mm)	145 x 265, 368	295 x 265, 368
Cover lids / Hole for thermometer (mm)	5ea / 51.0 1ea / 12.6	8ea / 51.0 1ea / 12.6
Dimensions W x D x H (mm)	492 x 374 x 547	642 x 374 x 547
Net weight (Kg)		



All information presented in this catalogue is correct except in the case of typing errors.

We reserve the right to alter the characteristics of products presented in our catalogue when said changes are beyond control of this company.



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