



Laboratory &
Support Equipment A-Z

Autoclaves



Swiftlock Compact Autoclaves
23, 35 and 50 litre

AUTOCLAVES

Swiftlock Compact Autoclaves 23, 35 and 50 litre

The new ranges of autoclaves offers guaranteed precision and versatility for a wide range of applications and are designed to meet the demanding requirements of current sterilisation procedures.

Features:

- 4 program micro-control
- 316L stainless steel pressure vessels
- Temperature range 100 to 138°C (0.2-2.4 bar)
- Ultra-quick new door lock mechanism
- Conforms to national and international standards
- Automatic water fill
- Built in drying system
- Water recycling as standard

The Swiftlock automatic water fill/recirculation system together with extremely versatile programming capability provides exceptional sophistication in a small autoclave. The integral reservoir, once filled, provides sufficient water for up to 20 cycles; moreover, the same container also acts as collection vessel for both condensate and water (which is returned from the autoclave chamber following the sterilisation process). Thus the system is completely self-contained and connection to a drain or waste container is unnecessary.

SPECIFICATIONS

Capacity (litres)	Loading	Chamber size (dia x depth mm)	Reference	Price
23	Front	250 x 430	AL/AMB220	£4180.00
40	Front	350 x 400	AL/AMB230	£5320.00
60	Front	350 x 600	AL/AMB240	£6635.00
60	Top	350 x 570	AL/AMA240	£6440.00

Optional accessories

Integral data printer

Reference: AL/AAR130 £780.00

Load sensor process timing

Reference: AL/AAR014 £245.00



Acculab Pocket-Pro Balance

BALANCES

Acculab Pocket-Pro Balance

A battery operated portable balance, ideal for sample preparation, test kits and special applications. Has a rugged ABS housing with a slide closure mechanism that locks the weighing pan during transport as well as protecting the backlit display. Also includes low battery, overload and underload indicators, weighing units in grams and ounces, simple 3 key operation. Weighing tray, battery and calibration weight included. Capacity 200g x 0.1g

Reference: SR/PP-201

£40.00



Adams Portable Balances AQT Series

An economically price range of balances tailored for many applications in the laboratory and field.

Features:

- Large and very stable case in modern attractive design.
- Stainless steel pan
- Low battery indicator
- Clear backlit display
- Auto power off
- Battery or mains adapter (supplied as standard)
- Windshield on all models
- Height adjustable feet

SPECIFICATIONS

Model	Capacity	Readability	Platform Size	Price
AM/AQT200	200g	0.01g	130mm dia	£170.00
AM/AQT250	250g	0.1g	130mm dia	£80.00
AM/AQT600	600g	0.1g	130mm dia	£110.00
AM/AQT1500	1500g	0.1g	130mm dia	£149.00
AM/AQT2000	2000g	1g	130mm dia	£85.00
AM/AQT2600	2600g	0.1g	130mm dia	£190.00
AM/AQT5000	5000g	1g	130mm dia	£120.00



Adams Portable
Balances AQT Series

Adams AMB Moisture Balances

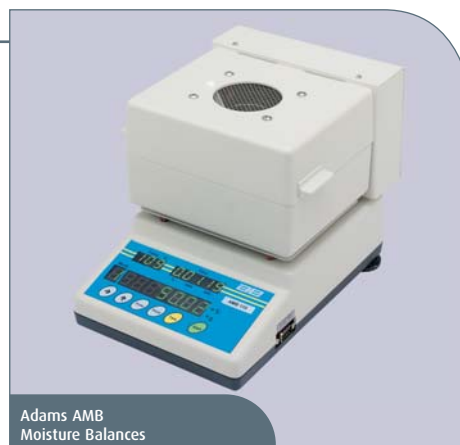
The AMB moisture balance is a precision device for the determination of moisture content in small samples of material by drying with halogen heaters.

Features:

- Large LED displays show percentage moisture or percentage solid, plus mode, temperature and time.
- 2 quartz halogen heaters provide constant and even drying
- 7 pre-set drying modes
- Temperature range 50 to 80°C
- Automatic termination of analysis when drying complete
- Bi-directional RS232 interface for connection to a computer or printer
- Memory stores last drying procedure
- Calibration facilities for temperature and weight

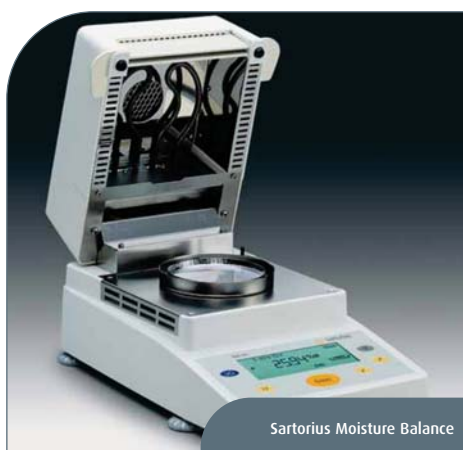
SPECIFICATIONS

Reference	Capacity	Readability	Pan Size	Price
AM/AMB50	50g	0.001g/0.01%	100mm dia	£1,300.00
AM/AMB110	110g	0.001g/0.01%	100mm dia	£1,400.00
AM/AMB310	310g	0.001g/0.01%	100mm dia	£1,500.00



Adams AMB
Moisture Balances

Balances



Sartorius Moisture Balance

The MA35 is an easy to use moisture balance with automatic end point determination. Is idea for routine analysis where accuracy and ease of use are important.

- Easy to understand icon lead menu.
- Two metal tubular heating elements providing 360 watts of power.
- Automatic end point determination.
- Weighing capacity 35g, accuracy 1mg.
- Temperature range 40 to 160°C.
- RS-232C interface.
- Built in weighing system to provide measurement accuracy.
- Display of results in % moisture, % dry weight, % RATIO and g residue.

Reference	Price
SR/MA35	£1295.00



Denver Moisture Balance

The IR-35 is suitable for all applications and offers great performance especially matched to the daily needs of the laboratory. Its easy operational concept provides a large and clearly arranged display that gives all important information at a glance.

- Automatic end point determination.
- Weighing capacity 35g
- Accuracy 1mg
- Temperature range 40 to 160°C
- RS-232C interface
- Fully automatic analysis mode
- Three easy steps from taring to analysis
- Display of analysis in moisture, dry weight, RATIO and residual weight

Reference	Price
DR/IR-35	£1225.00

Universal Water Baths

Designed for direct immersion of samples. Has integrated electronic control. The working area is completely unobstructed and the baths are designed to be placed 'end-on' for convenient access and observation, and for efficient utilisation of bench space.

Temperature Range

- Ambient +5 to 99°C (stability $\pm 0.2^\circ\text{C}$)

Digital Setting and Display

- Ensure reproducibility of set temperature, for repeatability of procedures
- Constant display of actual liquid temperature
- 2-digit easy-to-read LED display

Base Trays

An accessory tray is required if flat bottomed flasks are to be placed directly on the base of sub universal baths

Construction

- Consists of a stainless steel tank in an outer case, with heater and temperature sensors mounted underneath the tank
- Recessed control panel protects against spillage

Safety

- User-resettable, adjustable over-temperature cutout



Universal Water Baths

Accessories

A full range of accessories are available for these products:

Gabled Lids
Flat Lids with Holes
Raised Shelves
Base Trays
Polypropylene Spheres
Tube Racks

Please call for more information.

SPECIFICATIONS

	GT/SUB6	GT/SUB14	GT/SUB28	GT/SUB36
Temperature range:	ambient +5 to 99°C			
Temperature setting range:	15 to 99°C			
Stability (DIN 58966):	$\pm 0.2^\circ\text{C}$			
Temperature setting:	digital			
Temperature display:	two digit LED			
Heater power:	0.35kW	0.7kW		1.4kW 2kW
Overall consumption:	0.35kW	0.7kW		1.4kW
2ikW				
Tank capacity:	6 litres	14 litres	28 litres	36 litres
Working area, lxwx d:	150x300x140mm	325x300x140mm	505x300x190mm	635x300x190mm
Overall dimensions, lxwx d:	205x325x275mm	380x325x275mm	555x325x300mm	720x325x300mm

* A lid or layer of polypropylene spheres must be used when operating at 60°C or above.

ORDERING INFORMATION

Universal water bath, 6 litres	GT/SUB6	£425.00
Universal water bath, 14 litres	GT/SUB14	£468.00
Universal water bath, 28 litres	GT/SUB28	£552.00
Universal water bath, 36 litres	GT/SUB36	£673.00
Base tray to fit 6 litre bath	GT/SBT6	£34.00
Base tray to fit 14 litre bath	GT/SBT14	£35.00
Base tray to fit 28 litre bath	GT/SBT28	£36.00
Base tray to fit 36 litre bath	GT/SBT36	£38.00

Baths



Julabo water baths

Incorporates the latest technology for convenience and safety.

- Splash proof keypad for fast and easy setting
- Multi-display LED for 5 different temperature values
- High/low temperature warning functions
- RS232 interface
- Mains switch integrated in keypad foil
- Temperature stability of $\pm 0.2^{\circ}\text{C}$.

SPECIFICATIONS

	TW8	TW12	TW20
Working temperature range:	20 to 99.9°C	20 to 99.9°C	20 to 99.9°C
Temperature stability:	± 0.2	± 0.2	± 0.2
LED display resolution:	$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$
Timer (hr/mins):	0.01 to 9.59	0.01 to 9.59	0.01 to 9.59
Bath opening:	230x270mm	350x270mm	510x300mm
Usable bath depth:	140mm	140mm	180mm
Capacity:	8 litres	12 litres	20 litres
Dimensions (wxdxh):	290x320 x290mm	400x320 x290mm	560x350 x330mm
Weight:	10kg	11kg	18kg

ORDERING INFORMATION

J0/9550108	EcoTemp water bath model TW8	£525.00
J0/9550112	EcoTemp water bath model TW12	£545.00
J0/9550120	EcoTemp water bath model TW20	£595.00
Accessories		
J0/8970415	Constant level device	£120.00
J0/8970380	Tube rack for 60 x 16/17mm test tubes	£42.00
J0/8970381	Tube rack for 90 x 12/13mm test tubes	£42.00
J0/8970382	Tube rack for 90 microtubes 11/12mm	£57.00
J0/8970383	Tube rack for 21 x 30mm test tubes	£43.00
J0/8970286	Lift-up Makrolon bath cover	£138.00
J0/8970287	Lift-up Makrolon bath cover	£138.00
J0/8970288	Lift-up Makrolon bath cover	£158.00
J0/8970270	Flat cover, s/s, 1 opening 190mm dia.,	£86.00
J0/8970271	Flat cover, s/s, 4 openings 92mm dia.,	£115.00
J0/8970272	Flat cover, s/s, 2 openings 190mm dia.,	£154.00
J0/8970273	Flat cover, s/s, 6 openings 115mm dia.,	£162.00
J0/8970278	Flat cover, s/s, 6 openings 92mm dia.,	£132.00



Weighing Boats/Beakers

Weighing boats

Sufficiently rigid to hold materials on the pan, yet flexible to enable folding for transfer. Excellent for both powders and liquids, they are available in three sizes in black or white for visible contrast with your sample. Made from antistatic polystyrene for easy dispensing.

Reference	Description	Pack Qty	Price
LSE.250	5ml white	1000	£34.00
LSE.251	5ml black	1000	£34.00
LSE.252	30ml white	500	£25.00
LSE.253	30ml black	500	£25.00
LSE.254	100ml white	250	£26.00
LSE.255	100ml black	250	£26.00



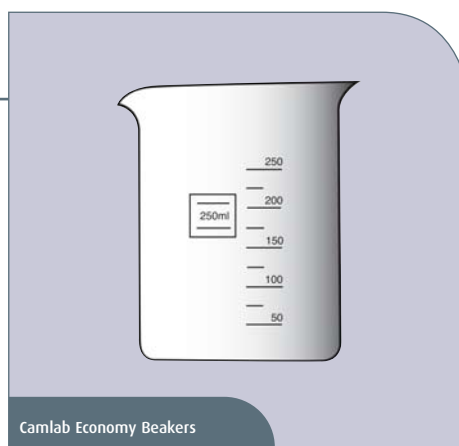
Weighing boats

BEAKERS

Camlab Economy Beakers

Borosilicate glass beakers with graduations and spout.

Reference	Description	Pack Qty	Price
EU/A2001/04B	50ml	6	£8.77
EU/A2001/05B	100ml	6	£9.22
EU/A2001/07B	250ml	6	£9.90
EU/A2001/08B	400ml	6	£13.50
EU/A2001/09B	600ml	6	£16.42
EU/A2001/11B	1000ml	6	£28.12

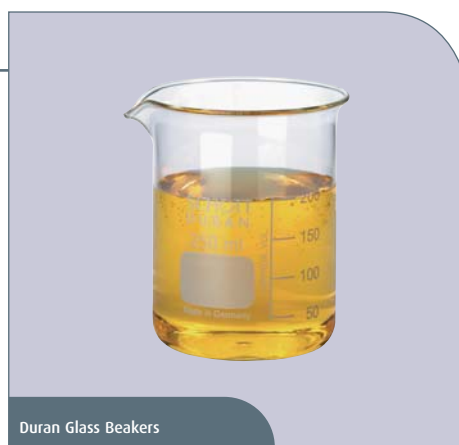


Camlab Economy Beakers

Duran Glass Beakers

Low form beakers borosilicate glass beakers with spout and graduations. DIN12331, ISO3819.

Reference	Description	Pack Qty	Price
SC/2110607	5ml	10	£27.10
SC/2110608	10ml	10	£30.50
SC/2110614	25ml	10	£26.24
SC/2110617	50ml	10	£25.40
SC/2110624	100ml	10	£25.30
SC/2110636	250ml	10	£27.30
SC/2110641	400ml	10	£32.80
SC/2110648	600ml	10	£40.80
SC/6110653	800ml	10	£56.20
SC/2110654	1000ml	10	£64.60
SC/2110663	2000ml	10	£113.00
SC/2110673	5000ml	1	£33.36
SC/2110686	10000ml	1	£92.18



Duran Glass Beakers

Beakers/Benchtop Protection Sheets/Bottles



Disposable Beakers

Disposable Beakers

Translucent polypropylene. High quality graduated beakers inexpensive enough to be disposable, but which can be autoclaved and re-used if required. They are tough, unbreakable and suitable for use with commonly used acids, alkalies and solvents. Designed with three dripless pouring spouts.

Reference	Description	Pack Qty	Price
PS/B700-050	50ml	100	£30.00
PS/B700-100	100ml	100	£32.00
PS/B700-250	250ml	100	£40.00
PS/B700-400	400ml	100	£43.00
PS/B700-800	800ml	100	£68.00
PS/B700-1000	1000ml	100	£73.00



Lab-Top Protection Sheets

BENCHTOP PROTECTION SHEETS

Lab-Top Protection Sheets

Protective sheet for laboratory benches consisting of an absorbent layer backed with waterproof polythene.

Reference	Description	Price
MN/210PE-48S	Sheets 48x60cm Pack of 100	£72.00
MN/210PE-48R	Roll 48cm x 100metres	£106.00
MN/210PE-60R	Roll 60cm x 100metres	£129.00

BOTTLES

HDPE Sample Bottles

Wide mouth bottles made from high-density polyethylene. Screw cap with rubber ring insert to make a tight seal.

Reference	Capacity	Price
PWM.5E	275ml	£1.50
PWM.5G	725ml	£1.90
PWM.5J	1200ml	£2.60



HDPE Sample Bottles

Aspirator Bottles

Heavy-duty polythene aspirator with tap and carrying handle.

Reference	Capacity	Price
PAS.1M	5 litres	£32.50
PAS.1P	10 litres	£36.50
PAS.1Q	25 litres	£71.70

Nalgene Unitary™ Wash Bottles

Wide mouth LDPE wash bottles with polypropylene closure. The bottle and tube is moulded in one piece and the closure is leakproof. Contents can be dispensed without tipping or shaking and the dispensing tip can be cut back to increase flow.

Reference	Capacity	Pack Qty	Pack price
NE/2402-0125	125ml	6	£15.20
NE/2402-0250	250ml	4	£11.70
NE/2402-0500	500ml	4	£14.10
NE/2402-0750	750ml	4	£19.90
NE/2402-1000	1000ml	2	£10.50



Wash Bottles, Polythene

Oval shaped wash bottles with cap and tube.

PWB.3D	250ml wash bottle, each	£2.50
PWB.3F	500ml wash bottle, each	£3.10



Laboratory Bottles, DURAN Glass

Borosilicate glass bottles with DIN thread. Supplied complete with blue polypropylene (PPN) screw cap and pouring ring. The bottle cap and pouring ring can be autoclaved up to 140°C. Graduations are approximate. Warning - do not autoclave with tightly screwed cap.

Reference	Capacity	DIN thread	Pack quantity	Pack price
SC/21-801-145	25ml	25	10	£34.90
SC/21-801-175	50ml	32	10	£37.40
SC/21-801-245	100ml	45	10	£32.00
SC/21-801-365	250ml	45	10	£35.70
SC/21-801-445	500ml	45	10	£44.70
SC/21-801-545	1000ml	45	10	£63.20
SC/21-801-635	2000ml	45	10	£148.20
SC/21-801-735	5000ml	45	1	£61.92
SC/21-801-865	10000ml	45	1	£100.64



Bottles/Buckets



Glass Reagent Bottles 'Polystop'

Conform to ISO published recommendations for shape and size. The angle of the shoulders, combined with the dimensions of the ground necks, ensure that contents are poured without 'gulping', thus contributing to safety standards in the laboratory.

Reference	Capacity size	Stopper	Pack qty	Price
Clear glass				
JP/RP705/A	30ml	16/16	10	£19.00
JP/RP705/B	50ml	16/16	10	£19.40
JP/RP705/C	100ml	16/16	10	£23.00
JP/RP705/D	250ml	24/20	10	£27.00
JP/RP705/E	500ml	24/20	2	£7.00
JP/RP705/F	1000ml	29/32	2	£10.20
Amber glass				
JP/RP705/AM/B	50ml	16/16	10	£36.00
JP/RP705/AM/C	100ml	16/16	10	£40.00
JP/RP705/AM/D	250ml	24/20	10	£40.00
JP/RP705/AM/E	500ml	24/20	5	£13.10
JP/RP705/AM/F	1000ml	29/32	2	£17.10



Wash Bottles

Polythene, oval shaped with cap and tube.

Reference	Capacity	Price
PWB.3D	250ml	£2.50
PWB.3F	500ml	£3.10

BUCKETS

Stainless Steel Bucket

Manufactured from 304-grade stainless steel, graduated in 1-litre intervals, complete with handle.



Reference	Capacity	Price
LHW.0200	6 litres	£41.00
LHW.0201	8 litres	£56.00
LHW.0202	10 litres	£58.00
LHW.0203	12 litres	£62.00
LHW.0204	15 litres	£65.00



FOR PH BUFFERS SEE PAGES 110 TO 111

BURETTES

Digital Burette III

The Digital Burette III bridges the gap between cumbersome glass burettes and costly titration units. Its compact size and long life battery means it is suitable for laboratory or field use. The digital display eliminates meniscus reading errors and volume calculations.

The Digital Burette III has all the features that make titrating safe and convenient.

Easy calibration

Calibration adjustments are achieved within seconds.

Safety discharge tube

The integrated safety discharge system reduces inadvertent dispensing if discharge tube is improperly installed, or missing.

Telescopic filling tube

Adjusts easily to different size bottles, without measuring and cutting.

Recalibration flag

Adjustment from factory settings is automatically indicated in the display window by <CAL>.

Safety Prime™ valve

Avoids reagent waste by recirculating during priming.

Adjustable dispensing angle

The titrating tube can be positioned in any direction so that the bottle label is always visible.

60000 titrations!

The environmentally-friendly lithium battery provides power for more than 60000 titrations.

That's 5 years operation with 50 titrations per day.

Capacity ml	Resolution ml %	Accuracy μL	CV %	μL	
25	0.01	0.2	50	0.1	25
50	0.01	0.2	100	0.1	50

ORDERING INFORMATION

with Viton seal

BD/4750.150

BD/4750.160

BD/4750.151

BD/4750.161

25ml burette III, standard venting valve

50ml burette III, standard venting valve

25ml burette III, SafetyPrime venting valve

50ml burette III, SafetyPrime venting valve

£450.00

£450.00

£470.00

£470.00



Burettes/Burners/Chemicals



Digital Burette III

Digital Burette III is supplied complete with standard GL45 screw thread, certificate of performance, operating manual, titrating tube with fine tip, telescopic filling tube (195-350mm long), polypropylene adapters GL45/32, GL45/S40, GL32/NS29/32.

Spares

BD/7060.80

BD/6697

BD/6696

SafetyPrime venting valve £33.00

Filling valve with seal £10.20

PTFE seals for filling, discharge and SafetyPrime valve, pack of 5 £6.60



Bunsen Burners

BURNERS

Bunsen Burners

Standard and Bypass Models for use with natural gas.

Standard model

Reference: LHW.0060

£ 8.40

Bypass model

Reference: LHW.0061

£30.00



Meker Burners

Meker Burners

Available with three head diameter sizes.

24mm Meker Burner

Reference: LHW.0062

£22.00

30mm Meker Burner

Reference: LHW.0063

£29.00

43mm Meker Burner

Reference: LHW.0064

£76.00

CHEMICALS

Camlab is able to offer a wide range of laboratory chemicals and solutions – full details are contained in our Laboratory products and Instrumentation Catalogue. To order your copy please call **01954 233150**.



camlab

CLEANING MATERIALS

Cleankill Hand Hygiene and Disinfection Products

Cleankill is a powerful proven, broad-spectrum virucidal and bactericidal disinfectant that has been developed to tackle the problem of increasingly resistant micro-organisms that surround us today.

Available in various formats.

Cleankill Foaming Hand Bactericide

This aqueous based, user friendly alternative to alcohol gel wipes is intended for frequent use when washing is not practical. Contains aloe vera. The 50ml pack fits easily into a pocket and provides about 100 applications. A 250ml version is also available.

Cleankill Scrub

A versatile hand scrub for use with water for cleaning and disinfecting soiled hands. Contains chlorhexidine combined with a powerful combination of quaternary ammonium compounds.

Cleankill Disinfectant

A vigorous disinfectant for use on all hard surfaces, from floors, walls to laboratory and surgical instruments. A soluble powder made up as a 1:100 solution with water provides disinfection when autoclaving is not practical.

Cleankill Cleanup

A sprinkle application powder for safe handling of spilled body fluids. It combines the potent Cleankill disinfectant with absorptive power of up to 300 times its own weight.

Cleankill Sanitising Spray

A broad spectrum sanitising disinfectant provided in an easy to use spray with no mixing required. For use on hard surfaces.

Cleankill products are independently tested using the BS EN 1276 test against the following organisms:

- MRSA (ATCC 33591 and NCTC 12493)
- E.Coli (ATCC 10536)
- Pseudomonas (aeruginosa ATCC 9027)
- Enterococcus (faecalis ATCC 10541)
- Salmonella (typhimurium NCTC 5710 and enteritidis NCTC 4444)



Cleankill Hand Hygiene and Disinfection Products

Reference	Description	Price
LSE.260	Cleankill handfoamer 50ml	£3.95
LSE.261	Cleankill handfoamer 48 x 50ml	£180.00
LSE.262	Cleankill handfoamer 250ml	£15.00
LSE.263	Cleankill handfoamer 48 x 250ml	£320.00
LSE.264	Cleankill scrub 250ml	£7.50
LSE.265	Cleankill disinfectant 1kg	£25.00
LSE.266	Cleankill cleanup 350g	£12.50
LSE.267	Cleankill sanitising spray 500ml	£7.50

Colony Counter/Cylinders



Camlab Colony Counter

COLONY COUNTER

Camlab Colony Counter

Pen based unit with two way counting up and down.

Reference: MT/81-520-000

£169.00



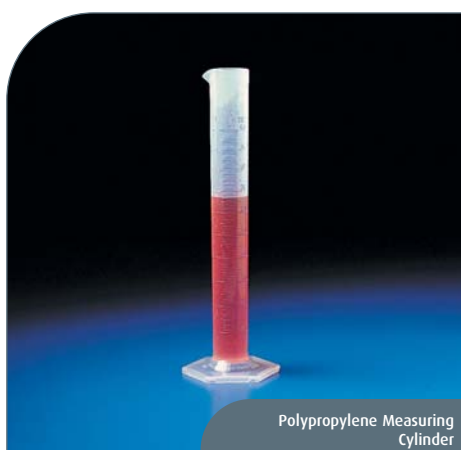
Glass Measuring Cylinder

CYLINDERS

Glass Measuring Cylinder

Soda lime glass measuring cylinders to BS604 (ISO 4788) with permanent amber graduations.

Reference	Capacity	Pack Qty	Price
JP/R250/A/2	5ml	2	£7.10
JP/R250/B/2	10ml	2	£7.10
JP/R250/C/2	10ml	2	£7.10
JP/R250/D/2	25ml	2	£7.10
JP/R250/E/2	50ml	2	£7.50
JP/R250/F/2	100ml	2	£8.50
JP/R250/G/2	250ml	2	£16.30
JP/R250/H/2	500ml	2	£30.00
JP/R250/I/2	1000ml	2	£44.00
JP/R250/J/S	2000ml	1	£43.00



Polypropylene Measuring Cylinder

Polypropylene Measuring Cylinder

Translucent polypropylene cylinders with moulded graduations.

Reference	Capacity	Pack Qty	Price
KL/1075	10ml	10	£20.10
KL/1077	25ml	5	£10.80
KL/1078	50ml	5	£11.00
KL/1079	100ml	5	£18.00
KL/1080	250ml	1	£5.70
KL/1081	500ml	1	£7.60
KL/1082	1000ml	1	£10.40
KL/1094	2000ml	1	£24.80

DIPPERS

Long Handled Dippers

Ideal for sampling from large vats or tanks, as well as streams rivers and lakes. These high-density polyethylene dippers will not corrode and provide excellent chemical resistance. The 29mm handle is welded to the rigid bowl at a 45° angle.

Reference	Bowl size	Handle length	Price
LSE.301	500ml	91cm	£27.00
LSE.302	500ml	183cm	£38.00
LSE.303	500ml	366cm*	£75.00
LSE.306	1000ml	183cm	£46.00
LSE.307	1000ml	366cm*	£77.00

* Two piece, screw together handle

Economy Dippers

With replaceable polypropylene cups and ribbed handle
Dipper with 91cm handle

Reference: LSE.347 £22.50

Dipper with 183cm handle

Reference: LSE.348 £30.00

Spare 500ml cup

Reference: LSE.349 £5.90



Long Handled Dippers



Economy Dippers

DISPENSING

Calibrex digital bottle top dispensers

2ml, 5ml, 10ml adjustable dispensers

A range of fully digital bottle top dispensers offering enhanced features to make dispensing even more simple and precise.

Dispensing up to 10ml

Three colour models are available with adjustable volumes ranging from 0.25 to 2ml, 1 to 5ml and 1 to 10ml.

Precise volume setting

Setting is fast and precise even with a single gloved hand. An effective click-stop mechanism prevents unwanted volume alteration. The large display is easy to read, and the window adjusts to the desired side of the instrument body.

Extension tubing

PTFE delivery Jet-Pen and extension tubing for dispensing into vessels up to 60cm distance.

Air filtration

Air inlet can be enlarged to receive a membrane filter, if airborne contamination is a concern.



Dispensing



Precise Volume Setting



Air Filtration



User Calibration



SX/320.SB050 Workstation

User calibration

The dispensers are factory calibrated, however, adjustments can easily be performed by the user.

Fixed volume dispensers

Ideal for customers wanting a unit which is factory set to their own desired volume and that cannot be inadvertently altered. Any volume up to the maximum for each model can be requested, using the increments shown.

A true digital system

Each step on the cylindrical cam is pre-calibrated and corresponds to one division on the adjustment scale. Called 'Solid Calibration', the system provides for digital volume entry and numerical reading whilst contributing to the long term calibration stability.

Safety

A protection sleeve prevents barrel breakage and eliminates any risk of spilling.

Quality control

Each Calibrex dispenser bears its own serial number and quality control certificate.

Volume dispensers

Adjustable

Range ml	Increments ml	Accuracy (mean error)	Precision (CV)	Reference Adj. volume	Price
0.25-2	0.05	<±0.7	<0.1	SX/520.002	£146.00
1-5	0.1	<±0.7	<0.1	SX/520.005	£146.00
1-10	0.25	<±0.7	<0.1	SX/520.010	£146.00

Fixed

Range ml	Increments ml	Accuracy (mean error)	Precision (CV)	Reference Fixed volume	Price
0.25-2	0.05	<±0.7	<0.1	SX/520.F02	£146.00
1-5	0.1	<±0.7	<0.1	SX/520.F05	£146.00
1-10	0.25	<±0.7	<0.1	SX/520.F10	£146.00

SX/320.SB050	Workstation, to hold dispensers	
	520/521 up to 50ml	£64.00
SX/1.524	Extension tubing, 600 mm	£46.00

All 520 units have standard 32mm screw neck and are supplied with 28, 40 and 45mm screw thread adapters.



Calibrex digital bottle top dispensers

20ml, 50ml, 100ml adjustable dispensers

Three sizes offer larger volume dispensing with similar precision and accuracy as the Calibrex 520 models.

Ordering information

Range ml	Increments ml	Accuracy (rel error %)	Precision (CV%)	Adjustable volume	Price
2-20	0.1	<±0.7	<0.1	SX/521.020	£270.00
10-50	1	<±0.7	<0.1	SX/521.050	£300.00
10-100	1	<±0.7	<0.1	SX/521.100	£390.00

All 521 units are supplied with adaptors to fit 32, 38, 40 and 45mm screw threads.

Amber glass bottles, square

Reference	Volume	Neck diameter	Price
SX/314-100	100ml	32mm	£5.60
SX/314-250	250ml	32mm	£4.60
SX/314-500	500ml	32mm	£5.80
SX/314-1000	1000ml	45mm	£7.90
SX/314-2500	2500ml	45mm	£10.50

Polyethylene bottles, square

SX/315-250	250ml	25mm	£2.00
SX/315-500	500ml	25mm	£3.20
SX/315-1000	1000ml	25mm	£6.50
SX/315-2500	2500ml	45mm	£7.70

Adaptors, polypropylene, screw neck

SX/GLP22	fits 22mm ø screw necks	£5.50
SX/GLP25	fits 25mm ø screw necks	£5.50
SX/GLP28	fits 28mm ø screw necks	£5.50
SX/GLP30	fits 30mm ø screw necks	£9.20
SX/GLP34	fits 34mm ø screw necks	£11.40
SX/GLP45	fits 45mm ø screw necks	£10.00

Adaptors, PTFE, screw neck

SX/GLT36	fits 36mm ø screw necks	£46.00
SX/GLT38	fits 38mm ø screw necks	£46.00

Adaptors, polypropylene, standard taper

SX/NSP18.8	fits taper NS19/27	£17.30
SX/NSP24	fits taper NS24/29	£17.30
SX/NSP29.2	fits taper NS29/34	£17.30
SX/NSP45	fits taper NS45/10	£17.30

Adaptors, PTFE, standard taper

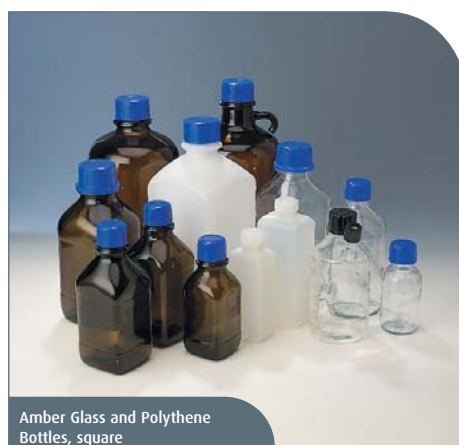
SX/NST18.8	fits taper NS19/26	£44.00
SX/NST24	fits taper NS24/29	£44.00
SX/NST29.2	fits taper NS29/34	£44.00

Feed tube, PTFE

Reference	Length x i.d	To fit	Price
SX/09.511.707	300x5mm	520: 2, 5, 10ml	£8.10
SX/09.521.621	300x7.5mm	521: 20ml	£8.10
SX/09.521.622	300x10mm	521: 50ml	£8.10
SX/09.521.623	375x10mm	521: 100ml	£8.10



Adaptors



Amber Glass and Polythene Bottles, square

Drying Racks/Filtration



Wall Mounted Drying Rack

DRYING RACKS

Wall Mounted Drying Rack

Polyethylene drying racks with solid 10mm thick backboard.

Reference	Board Size	No of Pegs	Price
PDR.9638-40	400 x400mm	32	£129.00
PDR.9638-50	500 x500mm	53	£152.00
PDR.9638-60	600x 600mm	76	£177.00

Optional drainage troughs

Reference: PDR.9642-40 to fit PDR.9638-40 £35.00

Reference: PDR.9642-50 to fit PDR.9638-50 £40.00

Reference: PDR.9642-60 to fit PDR.9638-60 £46.00



Bench Drying Labrack

Bench Drying Labrack

Bench standing rack with 22 pegs angled at 45° and drainage trough.

Reference: LSE.365

£81.00

FILTER PAPERS

Whatman GF/C Filter Papers

7cm GF/C papers in packs of 100

Reference: WN/1822-070

£38.50

Whatman Polycap GW Ground Water Capsule

The Ground water capsule is designed for easy filtering of ground water samples and meet the US EPA and Local Departments for Environmental protection Agency (DEP) standards for samples when analysing dissolved or suspended metals in ground water.

Polycap GW Capsule 0.45um, PES

Reference: WN/6714-6004

£15.70

Polycap GW Capsule 1.0um, PP

Reference: WN/6703-6010

£17.80

Polycap GW Capsule 5.0um PP

Reference: WN/6703-6050

£14.10



Whatman Polycap GW Ground Water Capsule

The complete range of Whatman papers are available from Camlab details of which are included in our Laboratory Products and Instrumentation catalogue – to order your copy please call 01954 233150.



FOR ELECTRODES-PH/ISE SEE PAGES 193 TO 198



camlab

GD/X Syringe Filters

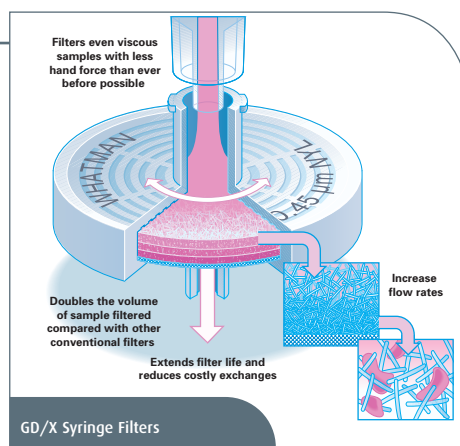
Whatman GD/X syringe filters are designed to enable filtration of hard-to-filter or viscous samples of volumes of up to 10ml (13mm filter) or greater than 10ml (25mm filter).

They are ideal for sample preparation and are particularly recommended for dissolution testing, content uniformity and concentration analysis.

Ordering information

Reference	Description	Pore	Diameter size (µm)	Qty.	Price
WN/6870-1302	Nylon	0.2	13mm	150	£213.00
WN/6870-2502	"	0.2	25mm	150	£225.00
WN/6871-2502	"	0.2	25mm	1500	£1,170.00
WN/6870-1304	"	0.45	13mm	150	£213.00
WN/6870-2504	"	0.45	25mm	150	£225.00
WN/6871-2504	"	0.45	25mm	1500	£1,170.00
WN/6872-1302	PVDF	0.2	13mm	150	£213.00
WN/6872-2502	"	0.2	25mm	150	£225.00
WN/6872-1304	"	0.45	13mm	150	£213.00
WN/6872-2504	"	0.45	25mm	150	£225.00
WN/6873-2504	"	0.45	25mm	1500	£1,170.00
WN/6900-2502	PVDF-(Sterile)	0.2	25mm	50	£100.00
WN/6900-2504	"	0.45	25mm	50	£100.00
WN/6874-1302	PTFE	0.2	13mm	150	£213.00
WN/6874-2502	"	0.2	25mm	150	£225.00
WN/6874-1304	"	0.45	13mm	150	£213.00
WN/6874-2504	"	0.45	25mm	150	£225.00
WN/6875-2504	"	0.45	25mm	1500	£1,170.00
WN/6876-1302	Polysulphone	0.2	13mm	150	£213.00
WN/6878-2502	"	0.2	25mm	150	£270.00
WN/6878-2504	"	0.45	25mm	150	£270.00
Polyethersulphone (Sterile)					
WN/6896-2502	"	0.2	25mm	50	£100.00
WN/6896-2504	"	0.45	25mm	50	£100.00
WN/6878-1304	Polypropylene	0.45	13mm	150	£213.00
WN/6880-1302	Cellulose acetate	0.2	13mm	150	£213.00
WN/6880-2502	"	0.2	25mm	150	£225.00
WN/6880-1304	"	0.45	13mm	150	£213.00
WN/6880-2504	"	0.45	25mm	150	£225.00
WN/6881-2504	"	0.45	25mm	1500	£1,170.00
Cellulose acetate (Sterile)					
WN/6901-2502	"	0.2	25mm	50	£90.00
WN/6901-2504	"	0.45	25mm	50	£90.00
WN/6894-1304	Glass microfibre	0.45	13mm	150	£213.00
WN/6894-2504	"	0.45	25mm	150	£225.00
WN/6895-2504	"	0.45	25mm	500	£1,170.00
WN/6890-2507	"	0.7	25mm	150	£270.00
WN/6884-1310	"	1.0*	13mm	150	£213.00
WN/6884-2510	"	1.0*	25mm	150	£225.00
WN/6886-2512	"	1.2*	25mm	150	£225.00
WN/6882-2516	"	1.6*	25mm	150	£270.00
WN/6888-1327	"	2.7*	13mm	150	£213.00
WN/6888-2527	"	2.7*	25mm	150	£270.00

* Contain GMF 150 but not GF/F prefilter.



Filtration



GD/XP Syringe Filters

GD/XP Syringe Filters

Whatman GD/XP syringe filters are designed for the preparation of samples which require inorganic ion analysis. However, they still retain the outstanding performance characteristics of the GD/X range of syringe filters in enabling the easy filtration of hard-to-filter or viscous samples.

SPECIFICATIONS

Dimensions:	21.7x29.7mm
Weight:	3g (approx.)
Filtration area:	4.6cm ²
Maximum pressure:	75psi
Housing material:	Polypropylene
Hold up volume	
Full housing:	1.4ml
With air purge:	250µl (approx.)
Inlet connector:	Female luer lok
Outlet connector:	Male luer slip
Flow direction:	Flow should enter from the inlet
Autoclavable:	15psi for minutes at 121°C (131°C max) (Not recommended for Nylon)
Biosafe:	All materials pass USP Class VI

ORDERING INFORMATION

GD/XP syringe filters, 25mm diameter

Material	Reference	Pore size (µm)	Qty.	Price
Nylon	WN/6970-2504	0.45	150	£270.00
PVDF	WN/6972-2504	0.45	150	£270.00
PTFE	WN/6974-2504	0.45	150	£270.00



EasyDisc 25mm Syringe Filters

EasyDisc 25mm Syringe Filters

The EasyDisc 25mm syringe filter is specifically designed for everyday use in large volume applications. They facilitate quick and convenient sample preparation and allow greater throughput without requiring syringe filter replacement in mid-operation. Available in a 0.45µm pore size. Advanced technology increases filtering volume as much as 300%*

*when compared with most competitive products under similar operating conditions

ORDERING INFORMATION

Reference	Description	Price
WN/6710-2504	Nylon filter, pack of 150	£233.00
WN/6712-2504	PVDF filter, pack of 150	£233.00
WN/6714-2504	PTFE filter, pack of 150	£233.00
WN/6716-2504	PES filter, pack of 150	£233.00
WN/6718-2504	PP filter, pack of 150	£233.00



Filtration System/Flasks

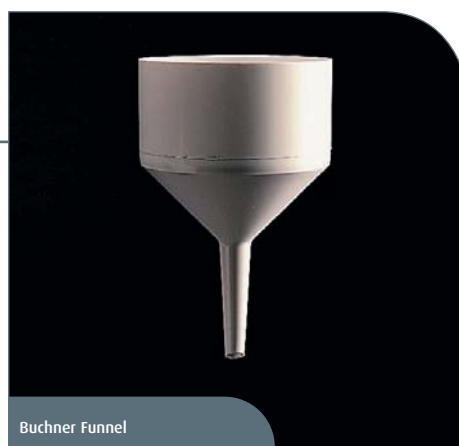
FILTRATION SYSTEM

Parts needed to make up simple vacuum filtration system.

Buchner Funnel

Polypropylene funnels which are resistant to corrosion and heat. Easily separated for cleaning purposes and can be use with Buchner flasks.

Reference	Capacity	Diameter	Price
KL/437	40ml	45mm	£17.70
KL/438	70ml	55mm	£20.60
KL/439	180ml	70mm	£26.00
KL/440	285ml	80mm	£34.00
KL/441	390ml	90mm	£39.00
KL/442	810ml	110mm	£52.00
KL/443	2100ml	160mm	£76.00
KL/445	6000ml	240mm	£170.00



Buchner Funnel

Buchner Flask

Glass flasks with side arm.

Reference	Capacity	Price
EU/A2010/02	250ml	£4.00
EU/A2010/03	500ml	£6.25
EU/A2010/04	1000ml	£7.50
EU/A2010/05	2000ml	£14.50

Filter cones

Set of 7 filter cones

Reference: VT/6602-3758 £13.00

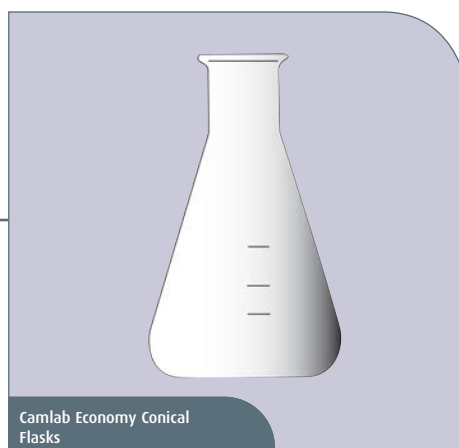
See pumps and tubing section for suitable items.

FLASKS

Camlab Economy Conical Flasks

Narrow neck borosilicate flask with graduations.

Reference	Capacity	Pack Qty	Price
EU/A2004/03B	100ml	6	£7.30
EU/A2004/05B	250ml	6	£9.00
EU/A2004/06B	500ml	6	£12.95
EU/A2004/07B	1000ml	6	£22.50



Camlab Economy Conical Flasks

Duran Glass Conical Flasks

Borosilicate glass flask with graduations to DIN 12380, ISO 1773.

Reference	Capacity	Pack Qty	Price
SC/2121614	25ml	10	£28.10
SC/2121617	50ml	10	£28.20
SC/2121624	100ml	10	£26.70
SC/2121636	250ml	10	£28.50
SC/2121644	500ml	10	£36.90
SC/2121654	1000ml	10	£62.60
SC/2121663	2000ml	10	£118.20



Duran Glass Conical Flasks

Flasks/Funnels



Glass Volumetric Flasks, Class A

Glass volumetric flasks, Class A

Class A

With one mark and interchangeable "Polystop" stopper. BS1792 (ISO 1042). All in borosilicate glass and individually checked for accuracy.

Reference	Capacity	Tolerance \pm	Pack quantity	Price
JP/RB258/A/5	5ml	0.025 ml	5	£25.00
JP/RB258/B/5	10ml	0.025 ml	5	£25.00
JP/RB258/D/5	20ml	0.04 ml	5	£29.00
JP/RB258/E/5	25ml	0.04 ml	5	£29.00
JP/RB258/F/5	50ml	0.06 ml	5	£30.00
JP/RB258/G/5	100ml	0.10 ml	5	£41.00
JP/RB258/H/2	200ml	0.15 ml	2	£23.00
JP/RB258/I/2	250ml	0.15 ml	2	£23.00
JP/RB258/J/2	500ml	0.25 ml	2	£31.00
JP/RB258/K/2	1000ml	0.40 ml	2	£40.00
JP/RB258/L/S	2000ml	0.60 ml	1	£36.00
JP/RB258/M/S	5000ml	2 ml	1	£94.00

FUNNELS

Filter funnels

Short stem

These Pyrex conical filter funnels have an accurate 60° bowl angle for precise fitting of filter paper. Produced with beaded rims.

Reference	Top dia.	Stem	Price
BY/2140/01M	35mm	35mm	£7.00
BY/2140/02M	45mm	45mm	£7.00
BY/2140/03M	55mm	55mm	£7.60
BY/2140/06M	80mm	80mm	£7.70
BY/2140/10M	100mm	100mm	£9.10
BY/2140/11M	125mm	125mm	£12.00
BY/2140/12M	150mm	150mm	£18.40
BY/2140/14M	200mm	175mm	£31.00

Long stem

These Pyrex conical filter funnels are similar to the short stem models but have a stem approximately 150mm long.

Reference	Top dia.	Stem	Price
BY/2145/03M	55mm	150mm	£16.00
BY/2145/06M	80mm	150mm	£16.90
BY/2145/10M	100mm	150mm	£20.00



Short Stem Filter Funnels



Long Stem Filter Funnels



GLOVES

Camlab Nitrile Gloves

Soft, sensitive, powder free nitrile disposable gloves available in natural and purple. Textured finished on finger for secure grip. Ambidextrous. Supplied in boxes of 100 gloves.

Reference	Description	Price
LSE.960	Camlab Gloves Natural Small	£11.90
LSE.961	Camlab Gloves Natural Medium	£11.90
LSE.962	Camlab Gloves Natural Large	£11.90
LSE.963	Camlab Gloves Natural Extra Large	£11.90
LSE.964	Camlab Gloves Purple Small	£12.50
LSE.965	Camlab Gloves Purple Medium	£12.50
LSE.966	Camlab Gloves Purple Large	£12.50
LSE.967	Camlab Gloves Purple Extra Large	£12.50



Camlab Nitrile Gloves

Disposable Vinyl Gloves

Ambidextrous, protein free vinyl gloves, available powdered or powder free. Supplied in boxes of 100.

Reference	Description	Price
LSE.970	Vinyl glove powder free small	£4.10
LSE.971	Vinyl glove powder free medium	£4.10
LSE.972	Vinyl glove powder free large	£4.10
LSE.973	Vinyl glove powder free x-large	£4.10
LSE.974	Vinyl glove powdered small	£3.40
LSE.975	Vinyl glove powdered medium	£3.40
LSE.976	Vinyl glove powdered large	£3.40
LSE.977	Vinyl glove powdered x-large	£3.40



Disposable Vinyl Gloves

Latex Gloves

Latex gloves available powdered or powder free. Textured, chlorinated, ambidextrous and low protein. Supplied in boxes of 100.

Reference	Description	Price
LSE.978	Latex glove powder free small	£4.30
LSE.979	Latex glove powder free medium	£4.30
LSE.980	Latex glove powder free large	£4.30
LSE.981	Latex glove powdered small	£3.40
LSE.982	Latex glove powdered medium	£3.40
LSE.983	Latex glove powdered large	£3.40



Latex Gloves

Incubator/Microbiology



INCUBATOR

MMM Incucell Incubator

Low volume incubator with small footprint ideal for microbiological laboratories. Microprocessor controlled for exceptional stability and accuracy.

- Capacity 55 litres
- Maximum temperature 70°C
- Internal dimensions 400x370x350mm (wxdxh)
- External dimensions 620x640x680mm (wxdxh)

Reference: MR/0722

£780.00

Larger capacity units also available please contact our sales office on 01954 233110 for full details.

MICROBIOLOGY

The full range of Whatman microbiology testing materials and media are available from Camlab including:

- **Nutridisk** – colony counting identifications and selective microbial determinations
- **Rapid Tests** – quantitative results within 24 hours
- **Swabs** – for hygiene and contamination monitoring
- **MBSI and MBSII microbiological filtration systems** – rapid filtration for high-throughput labs.

To discuss your requirements in more detail or to request a copy of our **Laboratory Products and Instrumentation** catalogue that contains full details of these please call our sales office on 01954 233110. An example of items available:



Nutridisk Nutrient Pads

Dehydrated media for microbiological testing, an ideal alternative to traditional agar plates. A cellulose pad in impregnated with a dehydrated nutrient base, which becomes a nutrient medium when moistened with sterile water. Supplied without membranes. Nutrients available include:

- **Azide** – selective medium for the detection of faecal streptococci.
- **Cetrimide** – selective medium for the determination of *Pseudomonas aeruginosa* in water
- **M-FC** – selective medium for the detection of *E.Coli* and faecal coliform.
- **Plate count** – for total colony count.
- **Standard TTC** – determination of the colony counts of water and wastewater with TTC.

Reference	Nutrient	Price
WN/10434165	Azide	£74.00
WN/10434167	Cetrimide	£74.00
WN/10434168	M-FC	£74.00
WN/10434163	Plate count	£74.00
WN/10434164	Standard TTC	£74.00

Coliform Swabcheck

The presence of coliforms is indicated by a change from red to yellow. The more rapid the change the higher the level of coliform bacteria. Supplied in packs of 25.

Reference: WN/10498406 £64.00

E.Coli Swabcheck

Used for the detection of E.Coli on surfaces. Supplied in packs of 25

Reference: WN/10498402 £106.00

Total Count Swabcheck

Used for the non-selective development and enumeration of all aerobic bacteria on surfaces in accordance with HACCP. Supplied in packs of 30

Reference: WN/10498315 £99.00



Microbiological Monitors

Single use, pre-sterilised filtering units with welded fixed membranes and culturing devices. Ideal for monitoring contaminants in liquid samples drawn from raw materials to finished products. Supplied in packs of 50.

Reference	Description	Diameter	Price
WN/10497511	0.20um white/black grid	47mm	£78.00
WN/10497500	0.45um white/black grid	47mm	£78.00
WN/10497501	0.45um white/black grid bagged	47mm	£106.00
WN/10497502	0.45um black/white grid	47mm	£78.00
WN/10497503	0.80um black/white grid	47mm	£78.00
WN/10497603	0.20um white/black grid	56mm	£73.00
WN/10497600	0.45um white/black grid	56mm	£90.00
WN/10497601	0.45um black/white grid	56mm	£90.00
WN/10497602	0.80um black/white grid	56mm	£90.00



Microbiology/Mixers



Media

Reference	Description	Price
WN/10496714	EC broth 9ml vial/ Durham tube pk20	£18.80
WN/10496709	EC broth with MUG 9ml vial/ Durham tube pk20	£18.80
WN/10496120	Enterococcus broth 2ml ampoule pk50	£56.00
WN/10496722	Lauryl sulphate/tryptose broth 9ml vial pk20	£18.80
WN/10496124	M-FC broth 2ml ampoule pk50	£38.40
WN/10496102	M-TGE media, 2ml ampoule pk50	£34.90
WN/10496119	Pseudomonas broth 2ml ampoule pk50	£38.40
WN/10496113	Total count media with TTC 2ml ampoule pk50	£37.00



MIXERS

Vortex Mixer

Eliminates tedious hand mixing

For rapid and efficient mixing, the Cyclone is far superior to hand shaking. The Cyclone creates a vortex in the tube which gives the highly effective mixing action.

- Variable speed control, with the advantages of controlled mixing over a wide speed range.
- Operates at slow speed for gentle mixing necessary in many applications, where damage to cell structure is to be avoided.
- May be set for continuous running at the chosen speed or on demand by inserting the tube into the cup.
- Skirted rubber cup prevents liquid entering the mixer casing.
- Will accept vessels up to 25mm diameter.
- Excellent stability is achieved through a combination of weight and non-slip feet.

SPECIFICATIONS

Dimensions (wxdxh):	150 x 175 x 150 mm
Watts:	75W
Voltage:	230V, 50Hz

Reference	Price
NO/CM1-1	£163.00

IKA Vortex Mixer MS2

Variable speed vortex mixer for fast, thorough mixing of liquids in test tubes up to 30mm diameter. Can be operated continuously, or intermittently when pressure of the tube on the pad will start the mixer. Also includes soft foam platform for processing larger vessels, eg 100ml flasks.

SPECIFICATIONS

Speed range:	0 to 2500 rpm
Orbit:	4.5mm
Dimensions (wxdxh):	115x225x60mm
Weight:	3.5kg



IKA Vortex Mixer MS2

Ordering Information

IK/L002050 Vortex mixer MS2 £191.00

Vortex Mixers, SA7 & SA8

Vortex, Mixer, fixed speed, SA7

- Fixed speed 2500rpm
- Robust die-cast construction
- Automatic press start

Vortex, Mixer variable speed, SA8

- Variable speed control between 200 and 2500rpm
- Intermittent or continuous mode
- Stable low profile body
- Robust die-cast construction

Integral retort rod fixing allows vessels to be secured above the vortex action for long-term mixing. The SA8 can mix a variety of other vessels when used in conjunction with the SA8/1 accessory pack detailed overleaf.



Vortex Mixers, SA7 & SA8

SPECIFICATIONS

	CN/SA7	CN/SA8
Speed	2500rpm	200 to 2500rpm
Orbit diameter	4.2mm	4.2mm
Touch mode	Yes	Yes
Continuous mode	No	Yes
Dimensions (wxdxh)	135 x 215x 78mm	135 x 215 x 78mm
Weight	3.2kg	3.2kg
Electrical supply	90-240V50/60Hz, 20W	90-240V, 50/60Hz, 20W

Ordering Information

CN/SA7 Vortex Mixer, fixed speed £149.00
 CN/SA8 Vortex Mixer, variable speed £180.00
 CN/SR2 Retort rod, 300mm x 12.5mm diameter £13.90

Mixers/Oven



Accessory Pack

Accessory Pack

For use with CN/SA8 above, pack contains:

- 1 x plastic holder for standard microtitre plate
- 1 x circular foam insert for beakers and flasks (up to 500ml capacity)
- 1 x rectangular foam insert (holds 8 x 0.2ml, 8 x 0.5ml and 16 x 1.5ml microcentrifuge tubes)
- 1 x solid rectangular foam insert (blank for custom holes)

Ordering Information

CN/SA8/1	Accessory pack (for use with CN/SA8 only)	£36.00
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OVEN



MMM Incucell Incubator

MMM Incucell Convection Oven

Small capacity oven ideal for general laboratory and drying. With microprocessor control and a small footprint this unit is ideal for laboratories where space is a premium.

- Capacity 55 litres
- Maximum temperature 250°C
- Internal dimensions 400x390x350mm (wxdxh)
- External dimensions 620x640x680mm (wxdxh)

Reference: MR/0683 £730.00

Camlab offer a wide range of other laboratory ovens and these are featured in our [Laboratory Products and Instrumentation](#) catalogue. Please call our sales office on 01954 233110 to discuss your requirements or request your personal copy of the catalogue.

PH ELECTRODES

Electrode Type:

P11 P12 P13 P14 P15 P16 P17 P18 P19 P21 P10 01 02 03



Sentek Electrodes

Competitively priced electrodes offering fast response, low noise and drift, and reliable performance. All electrodes are supplied with one metre cable and BNC plug (except SK/452-75 which is supplied with 2x4mm plugs).

Reference	Type	Temperature range °C	Reference type	Junction type	Dimensions lengthxdia	Body type	Price
Combination electrodes, pH 0-14							
SK/111-75	P11	0-80	AgCl	annular ceramic	120x12mm	glass	£35.00
SK/112-75	P12	0-80	AgCl	frit ceramic	150x6mm	glass	£50.00
SK/113-75	P13	0-80	AgCl	frit ceramic	90x4.5mm	glass	£52.00
SK/114-75	P14	0-60	AgCl	porous teflon	120x12mm	epoxy	£35.00
SK/115-75	P15	0-50	HgCl	annular ceramic	120x12mm	glass	£76.00
SK/116-75	P16	0-50	HgCl	frit ceramic	90x6mm	glass	£82.00
SK/117-75	P17	0-80	AgCl	porous teflon	120x12mm	glass	£82.00
SK/118-75	P18	0-80	AgCl	annular ceramic	120x12mm	glass	£52.00
SK/119-75	P19	0-80	AgCl	frit ceramic	40x6mm	glass	£60.00
SK/121-75	P21	0-80	AgCl	sleeve	120x12mm	glass	£78.00
Glass electrode, pH 0-14							
SK/110-75	P10	0-80	-	-	120x12mm	glass	£26.00
Metal electrodes							
SK/451-75	01	0-80	AgCl	annular ceramic	120x12mm	glass	£66.00
SK/452-75	02	0-80	-	-	120x12mm	glass	£74.00
SK/453-75	03	0-80	-	-	120x12mm	glass	£59.00

pH Electrodes

BlueLine Electrodes

BlueLine is a of electrodes covering all the usual measurement tasks performed in the laboratory.

The BlueLine represents state of the art technology and offers excellent value for money.

- Low resistance membrane glass
- Silver ion free electrolyte
- New improved gel
- Silamid reference system



BlueLine
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BlueLine
12



BlueLine
13

SPECIFICATIONS

	BLUELINE 11	BLUELINE 12	BLUELINE 13
Reference:	SC/28.512.9114	SC/28.512.9122	SC/28.512.9139
Shaft material:	glass	glass	glass
Shaft diameter:	12mm ± 0.5	12mm ±0.5	12mm ±0.5
Electrolyte:	KCl3 mol/L, free from silver ions	KCl3 mol/L, free from silver ions	KCl3 mol/L, free from silver ions
Internal buffer:	pH=7, ±0.25	pH=7, ±0.25	pH=7, ±0.25
Shaft length:	120mm ±2	120mm ±2	170mm ±2
Connection:	Schott plug head	fixed cable, 3mmø x 1mm	Schott plug head
Cable combination:	LB 1A	-	LB 1A
Equipment connection:	DIN plug 19 262	DIN plug 19 262	DIN plug 19 262
Membrane:	pH glass type L	pH glass type L	pH glass type H
Membrane form:	cone membrane	cone membrane	sphere membrane
Membrane resistance:	100 Mø at 25°C	100 Mø at 25°C	300 Mø at 25°C
Operating range:			
- pH;	0-14pH	0-14pH	0-14pH
- temperature;	0-100°C	0-100°C	0-100°C
Diaphragm:	platinum	platinum	ground joint
Temperature sensor:	no	no	no
Price:	£68.00	£77.00	£114.00

SPECIFICATIONS

	BLUELINE 14	BLUELINE 15	BLUELINE 16
Reference:	SC/28.512.9147	SC/28.512.9155	SC/28.512.9163
Shaft material:	glass	glass	glass
Shaft diameter:	12mm ± 0.5	17mm ±0.5	12/5mm ±0.5
Electrolyte:	KCl3 mol/L, free from silver ions	KCl3 mol/L, free from silver ions	KCl3 mol/L, free from silver ions
Internal buffer:	pH=7, ±0.25	pH=7, ±0.25	pH=7, ±0.25
Shaft length:	120mm ±2	120mm ±2	40/80mm ±2
Connection:	Fixed cable, 5mm ø x 1m	Fixed cable, 5mmø	Schott plug head x 1mm
Equipment connection:	19 262 + banana plug	BNC + banana plug	DIN plug 19 262
Membrane:	pH glass type L	pH glass type L	pH glass type H
Membrane form:	cone membrane	cone membrane	cylinder membrane
Membrane resistance:	100 Mø at 25°C	100 Mø at 25°C	300 Mø at 25°C
Operating range:			
- pH;	0-14pH	0-14pH	0-14pH
- temperature;	0-100°C	0-100°C	0-100°C
Diaphragm:	platinum	platinum	platinum
Temperature sensor:	NTC 30kø	NTC 30kø	no
Price:	£117.00	£117.00	£130.00



BlueLine
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BlueLine
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BlueLine
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pH Electrodes

Multiparameter
Instruments & Kits

Single Parameter
Instruments & Kits A-Z

On-line
Monitors/Analysers A-Z

Laboratory &
Support Equipment A-Z



BlueLine
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BlueLine
22



BlueLine
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SPECIFICATIONS

	BLUELINE 21	BLUELINE 22	BLUELINE 23
Reference:	SC/28.512.9217	SC/28.512.9225	SC/28.512.9233
Shaft material:	glass	Noryl	Noryl
Shaft diameter:	12/5mm ± 0.5	12mm ±0.5	12mm ±0.3
Electrolyte:	Referid	gel	gel
Internal buffer:	pH=7, ±0.25	pH=7, ±0.25	pH=7, ±0.25
Shaft length:	62/25mm ±2	120mm ±2	120mm ±1
Connection:	Schott plug head	Schott plug head	fixed cable 3mmø x 1m
Cable combination:	LB 1A	LB 1A	-
Equipment connection:	plug 19 262	DIN plug 19 262	DIN plug 19 262
Membrane:	pH glass type L	pH glass type L	pH glass type L
Membrane form:	spear membrane	cylinder membrane	cylinder membrane
Membrane resistance:	300 Mø at 25°C	300 Mø at 25°C	300 Mø at 25°C
Operating range:			
- pH;	2-13pH	0-14pH	0-14pH
- temperature;	-5-80°C	-5-80°C	-5-80°C
Diaphragm:	hole	fibre	fibre
Temperature sensor:	no	no	no
Price:	£140.00	£47.00	£62.00

SPECIFICATIONS

	BLUELINE 24	BLUELINE 25	BLUELINE 31RX
Reference:	SC/28.512.9241	SC/28.512.9258	SC/28.512.9311
Shaft material:	Noryl	Noryl	glass
Shaft diameter:	12/5mm ± 0.3	12mm ±0.3	12mm ±0.3
Electrolyte:	gel	gel	KCl3 mol/L free from silver ions
Internal buffer:	pH=7, ±0.25	pH=7, ±0.25	-
Shaft length:	120mm ±2	120mm ±1	120mm ±1
Connection:	fixed cable, 5mmø x 1m	fixed cable, 3mmø x 1mm	Schott plug head
Cable combination:	-	-	LB1A
Equipment connection:	DIN plug 19 262 & banana plug	BNC plug	BNC plug DIN plug 19262
Membrane:	pH glass type L	pH glass type L	platinum
Membrane form:	cylinder membrane	cylinder membrane	platinum disk, ø=4mm
Membrane resistance:	300 Mø at 25°C	300 Mø at 25°C	100 Mø at 25°C
Operating range:			
- pH;	0-14pH	0-14pH	0-1000°C
- temperature;	-5-80°C	-5-80°C	
Diaphragm:	fibre	fibre	ceramic
Temperature sensor:	NTC 30kø	no	no
Price:	£102.00	£62.00	£100.00



BlueLine
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BlueLine
25



BlueLine
31RX

pH Electrodes

BLUELINE ACCESSORIES

Super-heated Steam Sterilised, Integral Buffers

In accordance with DIN 19 266 and NIST in Fiolax ampoules (contents approx. 25ml) and DURAN glass bottles - the buffers are labelled with an individual batch no on the bottle/ampoule and delivered with an analysis certificate. These buffer solutions can be retraced to international standards and meet all requirements of quality assurance systems.

Reference	pH value at 25°C	Pack contents	Price
SC/28.513.8402	4.01/6.87	6 ampoules	£9.60
SC/L4791	1.68	6 ampoules	£9.60
SC/L4794	4.01	6 ampoules	£9.60
SC/L4796	6.87	6 ampoules	£9.60
SC/L4799	9.18	6 ampoules	£9.60
SC/L4798	4.01/ 6.87/ 9.18	6 ampoules	£9.60
SC/L4797	1.68/ 6.87/ 9.18	6 ampoules	£9.60
SC/L4893	4.01/ 6.87/ KCl	2x9 ampoules in 50ml PP bottle	£48.00
SC/L1684	1.68	250ml glass bottle	£32.00
SC/L4014	4.01	250ml glass bottle	£32.00
SC/L6874	6.87	250ml glass bottle	£32.00
SC/L9184	9.18	250ml glass bottle	£32.00
SC/L168	1.68	1000ml glass bottle	£44.00
SC/L401	4.01	1000ml glass bottle	£44.00
SC/L687	6.87	1000ml glass bottle	£44.00
SC/L918	9.18	1000ml glass bottle	£44.00

Redox solutions

The redox solutions are used to check redox combination electrodes.

Reference	Potential Pt/Ag/AgCl	Potential Pt/calomel	Pack contents	Price
SC/L4619	190mV	230mV	6 ampoules	£7.60
SC/L4643	430mV	470mV	6 ampoules	£7.60
SC/L4660	600mV	640mV	6 ampoules	£7.60
SC/L430	430mV	470mV	1000ml DURAN glass bottle	£27.00
SC/L4304	430mV	470mV	250ml DURAN glass bottle	£13.40

Electrolyte solutions

The electrolyte solution is used to refill the combination electrode with liquid electrolyte and to store the combination electrodes.

Reference	Specification	Pack contents	Price
SC/28.513.8554	Potassium chlor. 3 mol/L free from silver ions	1000ml DURAN glass bottle	£21.90
SC/L3004	Potassium chlor. 3 mol/L free from silver ions	250ml DURAN glass bottle	£13.40
SC/L3008	Potassium chlor. 3 mol/L, free from silver ions	50ml PE bottle	£5.40

Cleaning solutions

The cleaning solution is used to remove albumen deposits on the membrane and diaphragm.

Reference	Specification	Pack content	Price
SC/L510	Pepsin/hydrochloric acid	1000ml DURAN glass bottle	£26.00
SC/L5104	Pepsin/hydrochloric acid	250ml DURAN glass bottle	£13.40

Plug-cable combination

For connection of BlueLine combination electrodes to the measuring instruments.

Reference	Instrument plug	Cable length	Price
SC/LB1BNC	BNC	1 metre	£27.00

Accessories

SC/Z351	Stand - horseshoe shaped foot, epoxy resin coated rod in special steel V4A 10mm diameter	£62.00
SC/Z331	Double clamp for 2 electrodes with 12mm shaft diameter, designed to fit stand Z351	£28.00
SC/TZ1520	Grinding adapter NS14.5 - for installation of all BlueLine combination electrodes with a shaft diameter of 12mm in ground vessels. Made of PTFE.	£24.30



pH Electrodes

Standard Plastic pH Electrode

Plastic bodied, gel filled, combination pH electrode reference
RL/COMBI-1.

Best for general purpose plant, field and student pH measurement

Speciality pH Electrodes

Glass, flat head, combination pH electrode reference
RL/COMBI-2.

Best for surface pH measurement

Glass, combination, platinum rod ORP electrode reference
RL/COMBI-5.

Best for routine laboratory ORP measurement

Reference	RL/COMBI-1	RL/COMBI-2	RL/COMBI-5
pH range	0-14	0-12	-
Temp. range	0-80°C	0-100°C	0-100°C
Outer junction	wick	annular PTFE	ceramic
Active dimensions	120x12mm	120x12mm	120x12mm
Price	£57.75	£126.55	£99.65



RL/COMBI-1



RL/COMBI-2



RL/COMBI-5

Electrode Stand

Cantilever stand for easy positioning of electrodes. Accepts up to 4 standard 12mm electrodes. Centre position for temperature probe.

Ordering information

SK/521-13 Electrode stand £52.00



Electrode Stand

pH Electrodes



Standard Glass pH Electrodes

Glass, combination pH electrode reference RL/COMBI-9
Best for routine laboratory pH measurement

Long reach, glass, combination pH electrode reference RL/COMBI-10.
Best for routine laboratory pH measurement in deep vessels

Long reach, thin stem, glass, combination pH electrode reference RL/COMBI-8.
Best for routine laboratory pH measurement in flasks and test tubes



Semi-micro, glass, combination pH electrode reference RL/COMBI-3.
Best for routine laboratory pH measurement in small samples

Semi-micro, long reach, glass, combination pH electrode reference RL/COMBI-4.
Best for laboratory pH measurement in NMR tubes and other small samples

Spear tip, glass, combination pH electrode reference RL/COMBI-7.
Best for penetration laboratory pH measurement

Semi-micro, spear tip, glass, combination pH electrode reference RL/COMBI-6.
Best for routine laboratory pH measurement in semi-solids

Reference	RL/COMBI-9	RL/COMBI-10	RL/COMBI-8	RL/COMBI-3	RL/COMBI-4	RL/COMBI-7	RL/COMBI-6
pH range	0-14	0-14	0-14	0-14	0-14	0-14	0-14
Temp. range	0-100°C	0-100°C	0-100°C	0-100°C	0-100°C	0-100°C	0-100°C
Outer junction	ceramic	ceramic	ceramic	ceramic	ceramic	ceramic	ceramic
Active dimensions	120x12mm	300x12mm	150x7mm	90x4.5mm	180x3.7mm	120x12mm	40x6mm
Price	£59.75	£106.10	£80.20	£91.30	£165.55	£92.70	£100.90

Ion selective electrodes

Electrode	Type	Conc. range	Reference	Price
Ammonia	gas sensing combination	5 x 10 ⁻⁷ - 1.0M 0.01-17,000ppm	RL/ISE-1	£330.00
Chloride	solid state combination	5 x 10 ⁻⁵ - 1.0M 1.8 - 35,500ppm	RL/ISE-4	£382.00
Cyanide	solid state combination	8 x 10 ⁻⁶ - 10-2M 0.2 - 260ppm	RL/ISE-2	£402.00
Nitrate	plastic membrane combination	7 x 10 ⁻⁶ - 1.0M 0.1 - 14,000ppm	RL/ISE-5	£452.00
Silver/Sulphide	solid state combination	Ag ⁺ 10 ⁻⁷ - 1.0M 0.01 - 107,900ppm	RL/ISE-3	£432.00
Sodium	glass combination	10 ⁻⁶ M - sat 0.02ppm - sat	RL/ISE-6	£232.00



PIPETTES

VOLAC Bulb Pipettes

Class B

Featuring bold figures in permanent amber stain, durable colour codes and "Tufftip" tips to resist damage. All pipettes are calibrated to deliver. To BS1583 (ISO 648).

Reference	Capacity	Accuracy ±	Colour code	Pack quantity	Pack price
JP/R370/A/5	1ml	0.015ml	Blue	5	£10.80
JP/R370/B/5	2ml	0.02ml	Orange	5	£10.80
JP/R370/C/5	3ml	0.03ml	Black	5	£13.80
JP/R370/D/5	4ml	0.03ml	2 red	5	£13.80
JP/R370/E/5	5ml	0.03ml	White	5	£11.80
JP/R370/F/5	10ml	0.04ml	Red	5	£13.80
JP/R370/G/5	15ml	0.05ml	Green	5	£21.00
JP/R370/H/5	20ml	0.06ml	Yellow	5	£20.00
JP/R370/I/5	25ml	0.06ml	Blue	5	£19.70
JP/R370/J/5	50ml	0.1ml	Red	5	£25.00
JP/R370/K/2	100ml	0.15ml	Yellow	2	£14.70

Class A

Guaranteed to give both volumes and flow times within the Class A limits. Suffix NC denotes verification only, suffix WAC denotes pipettes with a Works Accuracy Certificate. All NC and WAC Class A pipettes are individually calibrated and tested, numbered, fully traceable and marked with the time of flow to deliver. To BS1583 (ISO 648).

Reference	Capacity	Accuracy ±	Colour code	Pack quantity	Pack price
JP/R371/NC/A/5	1ml	0.008ml	Blue	5	£39.00
JP/R371/NC/B/5	2ml	0.01ml	Orange	5	£39.00
JP/R371/NC/C/5	3ml	0.015ml	Black	5	£43.00
JP/R371/NC/D/5	4ml	0.015ml	2 Red	5	£43.00
JP/R371/NC/E/5	5ml	0.015ml	White	5	£43.00
JP/R371/NC/F/5	10ml	0.02ml	Red	5	£46.00
JP/R371/NC/G/5	15ml	0.025ml	Green	5	£49.00
JP/R371/NC/H/5	20ml	0.03ml	Yellow	5	£60.00
JP/R371/NC/I/5	25ml	0.03ml	Blue	5	£66.00
JP/R371/NC/J/5	50ml	0.05ml	Red	5	£68.00
JP/R371/NC/K/2	100ml	0.08ml	Yellow	2	£29.00



Volac Bulb Pipettes

Pipettes



Disposable Transfer Pipette

These non sterile, unbreakable all-in-one pipettes eliminate the hazard of broken glass and exposure to infectious materials. Moulded from translucent low density polyethylene they are inert to biological fluids and most acids. Can be sealed and refrigerated. The low-affinity surface reduces the loss of cells and valuable proteins due to binding.

- Will not shatter or break
- Can be used in liquid nitrogen
- Non toxic and inert
- No bulb to insert and remove
- Sterile and non-sterile available

Reference	Total Cap.	Bulb draw	Grad. to	Drops per ml	length mm	Pack qty	Price pack
PS/P200-10	1.2ml	0.9ml	-	25	63	500	£11.40
PS/P200-1020S*	1.2ml	0.9ml	-	25	63	400	£14.70
PS/P200-14	1.5ml	0.8ml	0.25ml	23	114	500	£11.40
PS/P200-1420S*	1.5ml	0.8ml	0.25ml	23	114	400	£14.70
PS/P200-20	1.7ml	0.9ml	-	25	87	500	£11.40
PS/P200-2020S*	1.7ml	0.9ml	-	25	87	400	£14.70
PS/P200-30	3ml	2.1ml	0.25ml	25	138	500	£11.40
PS/P200-3020S*	3ml	2.1ml	0.25ml	25	138	400	£14.70
PS/P200-44	4ml	3.1ml	-	25	150	500	£11.40
PS/P200-4420S*	4ml	3.1ml	-	25	150	400	£14.70
PS/P200-52	5ml	3.1ml	0.25ml	25	150	500	£11.40
PS/P200-5220S*	5ml	3.1ml	0.25ml	25	150	400	£14.70
PS/P200-56	5ml	1.9ml	0.25ml	25	155	500	£12.40
PS/P200-5620S*	5ml	1.9ml	0.25ml	25	155	400	£14.70
PS/P200-58	5ml	1.8ml	0.5ml	25	156	500	£12.40
PS/P200-5820S*	5ml	1.8ml	0.5ml	25	156	400	£14.70
PS/P200-60	6ml	2.3ml	-	25	225	500	£12.40
PS/P200-6020S*	6ml	2.3ml	-	25	225	400	£14.90
PS/P200-72	7ml	3.2ml	0.5ml	22	150	500	£11.40
PS/P200-7220S*	7ml	3.2ml	0.5ml	22	150	400	£14.70

* S denotes sterile

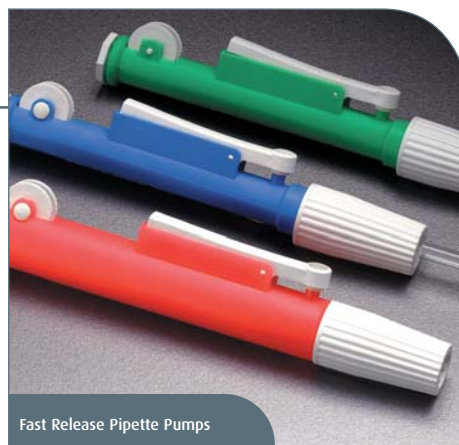
PIPETTE FILLERS

Fast Release Pipette Pumps

Low cost, fast release Pipette Pumps designed for rapid, effective, single-handed operation, with either glass or plastic pipettes. The soft elastic chuck securely holds the pipette in place. Rotation of the thumb wheel draws up liquid, to empty rapidly, apply light thumb pressure to the fast-release lever; for gradual dispensing, rotate the thumb wheel.

Ordering Information

PPD.100/2	Up to 2ml blue	£14.60
PPD.100/10	Up to 10ml green	£14.80
PPD.100/25	Up to 25ml red	£19.80



Fast Release Pipette Pumps

Pipette Controller

Safe, easy pipetting

This controller is the latest in pipetting technology. For fixed volume and graduated pipettes from 0.1 to 100ml capacity, its special valve system provides extremely simple and easy control.

- Suction bellows – simple squeeze action before pipetting, with no need to operate a valve
- Pipetting lever – just one small lever for filling, adjusting the volume, and delivery
- Blowball – to blow the last drop out of blow-out pipettes
- Pipette adapter – removable and internally tapered for secure gripping of all pipettes from 0.1 to 100ml capacity. It has a built-in hydrophobic membrane filter for protection against liquid entering the controller. The adapter and filter are both sterilisable at 121°C

The unit weighs just 95g and is supplied with full instructions.

Ordering Information

Reference	Description	Price
BY/PFL001N	Pipette controller	£46.00
BY/PFL002	Replacement filter	£4.60



Pipette Controller

PVC teats

Approximately 2ml capacity.

Ordering Information

LHW.TS1	Black, pack of 25	£10.80
LHW.TS2	Red, pack of 25	£10.80



PVC teats

Pipette Fillers



Standard Pipette Pumps

Standard Pipette Pumps

Similar to the Fast Release models but without the fast release facility.

Ordering Information

PPD.200/0	Up to 0.2ml yellow	£15.40
PPD.200/2	Up to 2ml blue	£13.40
PPD.200/10	Up to 10ml green	£14.00
PPD.200/25	Up to 25ml red	£13.40



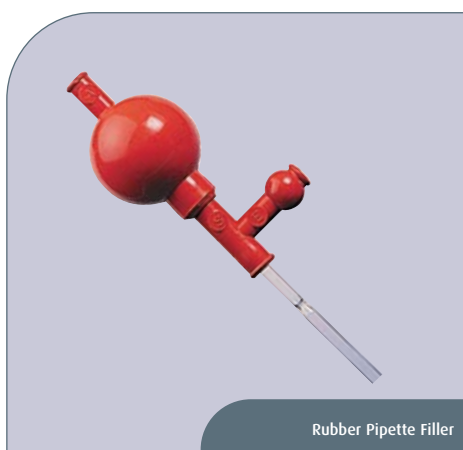
PVC Pipette Controller

PVC Pipette Controller

This 50ml capacity, easy-to-use pipette bulb simplifies the problems of controlled pipetting. Valve control pads are within finger reach without removing the palm of the hand from the bulb. Aspiration and dispensing can be achieved quickly and with great accuracy. Moulded in PVC the bulb and tube interiors are smooth, to eliminate soil bacteria harbours, and are easily cleaned. Resists most acids and alkalis.

Ordering Information

SPB.1531	PVC pipette controller	£7.90
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Rubber Pipette Filler

Rubber Pipette Filler

A moulded synthetic rubber bulb, approximately 60ml capacity, with three glass ball-valves which are controlled by finger pressure. There are no metal parts to corrode and the filler can be used with all liquids except those which attack rubber. Pipettes from 2ml to 50ml can be accommodated, the special adapter supplied being used for pipettes over 20ml capacity.

KL/200	Rubber pipette filler	£14.70
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PIPETTORS

Acura® 825/835 Adjustable Volume Micro and Macropipettes

Equipped with a precision digital display, the new line is continuously adjustable down to a very fine volume resolution. Single-handed volume setting is easy and measuring unknown volumes by aspiration is also possible with a high degree of accuracy.

A total of 8 micropipettes covering the range from 0.1 to 1000µL and 2 macropipettes 0.5 - 5ml and 1 - 10ml are available.

Macropipettes - maxi advantages

The 835 models accommodate nozzle filters for added protection against liquid fill and contamination. Optional adapter-nozzle allows fitting of Pasteur pipettes on 5ml model, in addition to Polypropylene tips.

Minimum maintenance/sterilisation

Shock, heat, chemical and UV light resistance is provided by carefully selected materials and good construction. Cleaning and sterilisation can be achieved by autoclaving the instrument, fully assembled, at 121°C for 20 minutes.

Colour coding

The Acura® pipettes have colour-coded display windows and button caps denoting the tip colour. If you require other colour combination for individual, lab or department identification then choose from 14 colours of 'smarties', or pick the 'smartie' mix which contains all colours.

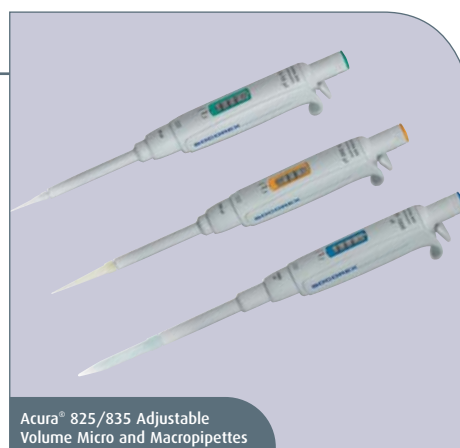
Ordering information

Acura® 825, adjustable volume micropipettes

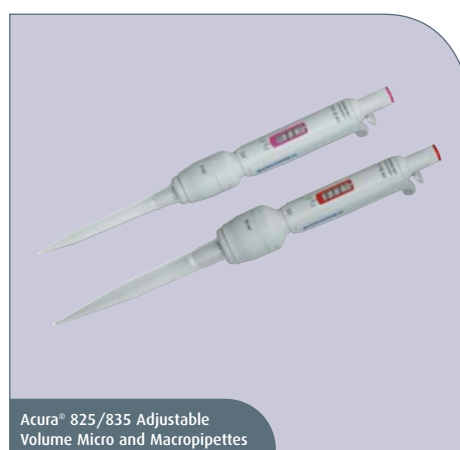
Reference	Volume µl	Division µl	Tip size	Price
SX/825.0002	0.1-2	0.002	ultra 10µl	£109.00
SX/825.0010	0.5-10	0.01	ultra 10µl	£109.00
SX/825.0010Y	1-10	0.01	200µl	£102.00
SX/825.0020	2-20	0.02	200µl	£102.00
SX/825.0050	5-50	0.1	200µl	£102.00
SX/825.0100	10-100	0.1	200µl	£102.00
SX/825.0200	20-200	0.2	200µl	£102.00
SX/825.1000	100-1000	1	1000µl	£102.00

Disposable tips for SX/815 and SX/825 micropipettes

Reference	Description	Pack size	Price
SX/308A	Standard yellow tips	Pack of 1000	£16.60
SX/309A	Standard blue tips	Pack of 1000	£13.90
SX/302	Micro tips, natural, 10µl	Pack of 100	£3.80
QP/114	Micro tips, natural, 10µl	Pack of 1000	£15.30



Acura® 825/835 Adjustable Volume Micro and Macropipettes



Acura® 825/835 Adjustable Volume Micro and Macropipettes



Acura® 825/835 Adjustable Volume Micro and Macropipettes

Pipettors/Pumps



Colour Coded Button Caps

Reference	Colour	Pk/6
SX/1.825.710	White	£6.50
SX/1.825.719	Rose	£6.50
SX/1.825.715	Grey	£6.50
SX/1.825.720	Pink	£6.50
SX/1.825.716	Vanilla	£6.50
SX/1.825.721	Purple	£6.50
SX/1.825.712	Lemon	£6.50
SX/1.825.722	Ice blue	£6.50
SX/1.825.717	Yellow	£6.50
SX/1.825.713	Blue	£6.50
SX/1.825.718	Orange	£6.50
SX/1.825.723	Mint	£6.50
SX/1.825.714	Red	£6.50
SX/1.825.711	Green	£6.50
SX/1.825.700	Assorted colours, pack of 14, (one of each)	£13.50

Disposable tips for SX/835 macropipettes

SX/Acura312.05	Polypropylene tips 5ml	Pack of 250	£22.70
SX/Acura312.10	Polypropylene tips 10ml	Pack of 100	£17.00

Socorex Adjustable Macropipettes Model 835

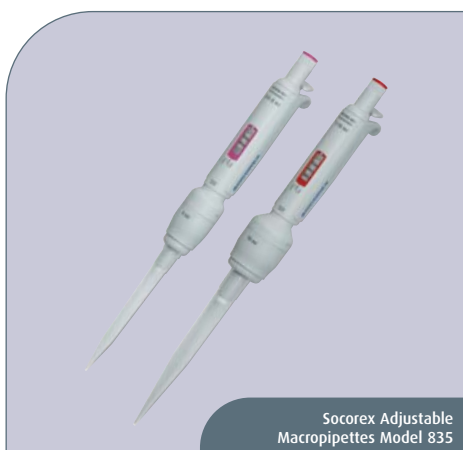
Two highly accurate pipettes for handling volumes up to 10ml. With digital display of volume.

Pipette 0.5 to 5ml

Reference: SX/835.05 £113.00

Pipette 1 to 10ml

Reference: SX/835.10 £113.00



Socorex Adjustable Macropipettes Model 835

PUMPS

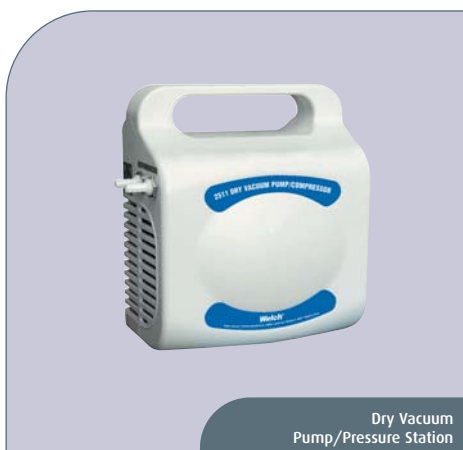
Dry Vacuum Pump/Pressure Station

An oil free piston pump is the heart of this economical vacuum/pressure station. It is designed for general duty laboratory applications requiring only a rough vacuum and moderate pressure. Ideal for vacuum filtration, aspiration, aeration, gas sampling and other laboratory requirements.

Features:

- Free flow of 9.2litres/min
- Vacuum to 292mbar and pressure to 2.3bar
- Quiet oil free technology
- Lightweight, compact and portable.

Reference: AS/2511C-02 £154.00



Dry Vacuum Pump/Pressure Station



Pumps/Refrigerator

Mini Laboport Vacuum Pump

Small portable diaphragm pumps ideal for general laboratory use. KN models have splash proof case with Ryton head with neoprene valves and diaphragm. The chemical resistant KT models have a Ryton head, PTFE coated diaphragm and Kalrez valves. Suitable for vacuum filtration, distillation under vacuum, rotary evaporators, drying etc.

Reference	Flow Rate (l/min)	Final vacuum (residual abs pressure)	Over pressure (bar)	Price
KR/N86KN	6	100	2.4	£211.14
KR/N86KT	5.5	160	2.5	£267.04
KR/N811KN	11.5	240	2	£217.36
KR/N811KT	11.5	290	2	£315.05
KR/N816.3KN	16	15	0.5	£450.95
KR/N816.3KT	16	20	0.5	£475.70
KR/N816.1.2KN	30	100	0.5	£450.95
KR/N816.1.2KT	30	160	0.5	£475.70



Mini Laboport Vacuum Pump

Liquiport Diaphragm Pump

The latest state-of-the-art Liquiport pumps offer multi purpose pumps ideal for aspiration or transferring liquids. Flows can be adjusted manually or by motor speed control with RC versions.

Features:

- Self priming
- Can be run dry
- Minimal maintenance and long life
- IP65 Motor protection class

Reference	Flow rate (l/min)	Maximum suction head (mWg)	Maximum pressure head (mWg)	Price
KR/NF100KTS	0.2 to 1.3	3	10	£397.71
KR/NF1.100KTRC	0.2 to 1.3	3	60	£502.83
KR/NF300KTS	0.5 to 3.0	3	10	£505.67
KR/NF1.300KTRC	0.5 to 3.0	3	60	£610.78



Liquiport Diaphragm Pump

REFRIGERATOR

LabCold Bench Top

Small counter top refrigerator with spark free interior and a capacity of 61 litres. CFC, HCFC and ammonia free this low energy automatic defrosting unit is ideal for microbiology laboratories or where a small-refrigerated storage facility is required at site.

Operating temperature +4°C

Reference: BO/RLPR02041

£385.00



LabCold Bench Top

Refrigerator/Safety Specs/Stirrers



LabCold Underbench

LabCold Underbench

Unit designed to fit under the majority of laboratory benches this unit offers storage capacity of 160 litres. CFC, HCFC and ammonia free this low energy automatic defrosting unit is ideal for most laboratory applications. Also has the advantage of a lockable door.

Operating temperature +4°C

Reference: BO/RLPR05042

£399.00

SAFETY SPECTACLES



Sapphire Spectacles

Sapphire Spectacles

Lightweight modern spectacles with blue frame for maximum visibility. Certified to EN166.

Reference: LSE.501

£6.60

Monospec 2 Spectacles

A new smart, lightweight eyeshield. It is comfortable to wear, has a wide vision eyeshield and offers style and protection at a modest price. Certified to EN166

Reference: LSE.505

£5.20

Type 490 Spectacles

Super large lenses with good all round protection. Locking hinges and wired side arms. Certified to EN166

Reference: LSE.502

£6.60

STIRRERS

Economy Stirrer

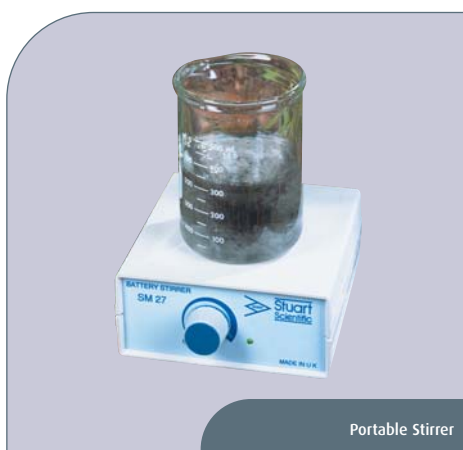
Small, flat simple to use magnetic stirrer.

Speed 100 to 1000rpm

Maximum volume 1000ml

Reference: HI/190M

£58.00



Portable Stirrer

Portable Stirrer

Tough, compact lightweight unit with battery or mains power.

Variable speed to 1300rpm.

Maximum volume 1500ml

Reference: CN/SM27

£175.00

Accessories for SM27

Mains adapter

Reference: CN/SM27/1

£28.00

Car battery adapter.

Reference: CN/SM27/2

£28.00



MonoDirect Magnetic Stirrer

A directly controlled electromagnetic stirrer suitable for most general laboratory applications

- Wear-free inductive drive
- Speed range 130 to 1000rpm
- Super flat, only 35mm high
- Stirring volume up to 3 litres
- Safe acceleration to required stirring speed
- Powder-coated stainless steel housing
- Power supply with pre-selectable stirring power
- Illuminated power on lamp

Ordering Information

DH/30110 MonoDirect magnetic stirrer £145.00



MonoDirect Magnetic Stirrer

MaxiDirect Magnetic Stirrer

Electromagnetic stirrer with push button controls and digital display

- Wear-free inductive drive
- Speed range 80 to 2000rpm
- Super flat, only 35mm high
- Stirring volume up to 5 litres
- Safe acceleration to required stirring speed
- Digital display of speed
- 4 power settings, ideal for larger volumes and more viscous liquids
- Memory function stores last setting
- Hermetically sealed stainless steel housing
- Can be cleaned under running water
- Push button controls

Ordering Information

DH/30125 MaxiDirect magnetic stirrer £360.00



MaxiDirect Magnetic Stirrer

SPECIFICATIONS

	MonoDirect	MaxiDirect
Stirring points:	1	1
Stirring volume:	1ml to 3 litres	1ml to 5 litres
Stirring power:	1/5 W	5/10/15/20 W
Speed range:	130 to 1000rpm	80 to 2000rpm
Dimensions:	180x215x35mm	180x215x35mm
Weight:	1.4 kg	2.5 kg
Ambient temperature:	-10 to +40°C at 95% relative humidity	-10 to +40°C at 95% relative humidity
Operating voltage:	8 to 12 V DC	24 V DC
Power supply unit:	power supply unit included	power supply unit included

Stomacher/Timers



STOMACHER

Seward Stomacher 400 Circulator

Large volume Stomacher that homogenises by crushing and enhanced stirring actions.

Features:

- Easy-to-use 'touch' panel controls
- 3 speed settings
- Programmable time settings
- Sample size 80 to 400ml or four samples simultaneously up to the maximum capacity of the machine

Stomacher 400 Circulator

Reference: SEW/0400/001 £1795.00

Stomacher 400 classic bags pack of 500

Reference: SEW/BA6041/CPG £17.00

TIMERS

2 Channel Timer

Counts up and down to/from 24 hours alarm at end of countdown period. Has two timing channels, clock, memory and rear mounted magnet.

Reference: LHW.0074 £18.40

3 Channel Timer

Counts up and down to/from 20 hours with alarm at the end of countdown period. Has three timing channels, clock, rear mounted magnet and stand.

Reference: LHW.0072 £18.70

Big Digit Countdown Timer

Counts down from 19hours 59minutes with audible alarm.

Features back clip with magnet

Reference: LHW.0078 £8.10

Seconds Timer

This traditional timer has hand wind, precision spring movement and large start and reset triggers.

Reference: AT/TM-92049 £25.00



TITRATION

Titroline EASY

The automatic pH/mV titrator for everyday routine applications.

Three types of titration

Carry out titration measurements with a self-selecting end point, with preset end point or manually with the mouse.

Dosing unit

The integrated 20ml dosing unit with ultraviolet sleeve fills itself automatically.

Precise dosing technology

The precision, borosilicate glass cylinder and the motor driven, chemical resistant compressed air valve guarantees absolute accuracy.

Sensors

pH combination electrodes with integrated temperature sensor (Pt 1000) or indication and reference electrodes can be used.

Stirrer

The magnetic stirrer is connected directly to the burette for power.

Buffer solutions

Buffers 2.00/4.00/4.01/6.87/7.00/9.18/10.00/12.45, along with their temperature functions, are stored in the TitroLine easy



Titroline EASY

Reading the results

Results are displayed on a large, clear LCD, with background illumination and contrast adjustment.

Printer/PC connection

Connect to a printer or PC through the RS232C interface. We recommend the TZ3460 although any printer with a serial interface can be connected.

Chemically resistant materials

All parts that come into contact with solvents are manufactured from chemically resistant materials.

SPECIFICATIONS

Volume display:	00.00 - 999.9 ml
Resolution:	0.01ml
LCD display:	matrix LCD display with 64x128 pixels
Cylinder:	20ml borosilicate glass, UV protection sleeve
Dosing accuracy:	systematic error 0.1%, random error 0.05%
Calibration:	2-point, selection of 8 stored buffer solutions
RS232C interface:	preset, 4800 baud, 7-bit word length, 2 stop bits, no parity
Valve:	3/2-port directional control valve, PTFE/ECTFE
Connection tubing:	FEP with UV protection
Housing:	Polypropylene and Polyflamm RPP 371 NT, 20% talcum
Ambient temperature:	+10°C to +40°C
Dimesions (wxhxd):	134 x 310 x 205mm, without stirrer
Weight:	2.4kg

Ordering Information

SC/28.521.2597	TitroLine Easy 1, with dosing unit, stand rod, titration tip holder, titration tip, hand control unit	£2,070.00
SC/28.521.2848	TitroLine Easy 2, as above but with pH electrode and buffer set	£2,170.00
SC/28.521.2864	TitroLine Easy 3, with silver combination electrode	£2,170.00
SC/28.522.1055	TZ2005 Bottle attachment, GL45 thread	£52.00
SC/28.522.1088	TZ2008 Bottle attachment, S40 thread	£52.00
SC/28.522.1047	Bottle attachment, S40 thread and 1 litre amber bottle	£61.00
SC/28.522.5608	TZ3460 printer with data cable	£400.00

Trolleys/Tubing



Utility Trolleys

TROLLEYS

Utility Trolleys

A selection of two or three shelved trolleys with the following features:

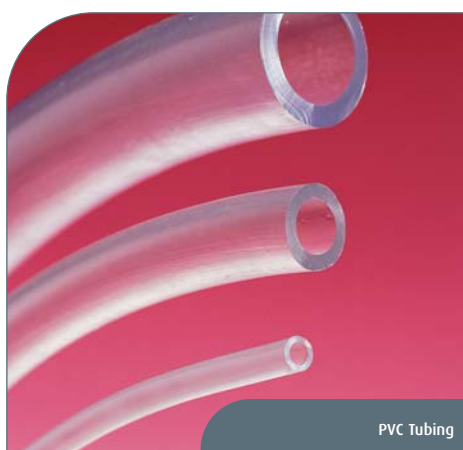
- Shelves made from one piece moulded structural foam
- Shelves have flat surfaces with raised edge to contain spillage's
- Three tier models have adjustable centre shelf
- Capacity per shelf 70kg
- Maximum load per trolley, 2 tier 140kg, 3 tier 180kg
- Height of all models is 845mm

Reference	No of tiers	Size	Price
LSE.445	2	710 x 455mm	£152.00
LSE.446	2	857 x 546mm	£165.00
LSE.447	2	1003 x 686mm	£194.00
LSE.448	3	710 x 455mm	£179.00
LSE.449	3	857 x 546mm	£200.00
LSE.450	3	1003 x 686mm	£240.00

TUBING

PVC Tubing

Elastic grade non-toxic PVC tubing which will retain its bore on bending. Can be sterilised up to 125°C.



PVC Tubing

Reference	id.	Wall thickness	Coil length	Price
PVT.N03	3mm	0.75mm	30M	£7.20
PVT.N05	5mm	1.5mm	30M	£13.60
PVT.N06.5	6.5mm	1.5mm	30M	£15.80
PVT.N08	8mm	2mm	30M	£26.10
PVT.N10	10mm	2mm	30M	£31.40
PVT.N12.5	12.5mm	2.25mm	10M	£16.30
PVT.N16	16mm	3.25mm	10M	£27.20
PVT.N20	20mm	3.25mm	10M	£32.90
PVT.N25	25mm	3.25mm	10M	£40.10

Ultrasonic Bath/Vials

ULTRASONIC BATH

Camlab Ultrasonic Cleaning Bath model S10

Small ultrasonic cleaning bath with stainless steel tank.

Features:

- 0.8litre capacity
- Electronic time and temperature control
- Safety cut-out
- Supplied with lid.

Model S10 Ultrasonic Cleaning bath

Reference: EA/1005507 £197.00

Basket for the above

Reference: EA/1004170 £27.00

Other sizes are available. Please enquire.



Camlab Ultrasonic Cleaning Bath model S10

VIALS

Polyethylene Sample Vials

Flat bottom containers with push fit hinged lids. Supplied in packs of 10.

Reference	Capacity (ml)	height x dia	Price
KL/730	1	30 x 8mm	£2.00
KL/731	2.5	32 x 14mm	£3.80
KL/737	5	50 x 15mm	£4.10
KL/732	8	56 x 17mm	£4.70
KL/733	10	32 x 23mm	£9.60
KL/734	25	72 x 25mm	£9.60
KL/735	30	52 x 32mm	£12.60
KL/736	50	74 x 32mm	£12.70



Polyethylene Sample Vials

Chromacol EPA Vials

Camlab are now able to offer the complete range of Chromacol EPA vials. These vials are specifically designed for water sampling and are available in 20 or 40ml volumes in clear or amber glass. Please contact our sales department on 01954 233110 for details of sizes available.

Washing/Washing Machines



Portable Handwash Station

WASHING

Portable Handwash Station

A completely self-contained handwash station that simply plugs into a mains power supply with no plumbing necessary. Ideal for a variety of 'on the job' hygiene needs where a plumbed system is not possible. Each filling of the unique water container allows for up to 50 hand washes. The 10-litre container is concealed in the pedestal and keeps fresh and used water separate.

Supplied complete with 2-metre power lead and holders for liquid soap and paper towels.

Reference: LHW.0081

£500.00



Camlab Cub Washing Machines

WASHING MACHINES

Camlab Cub Washing Machines

Standard features

- Washing tank/door in AISI 316L acid-resistant chrome-nickel-molybdenum stainless steel
- Outer panels in AISI 304 stainless steel
- Main wash pump: 400L/min
- Peristaltic pump for liquid detergent
- Peristaltic pump for acid and neutralising rinse
- Separate cold, hot and demineralised water supplies
- Pump and valve for pressurised and non-pressurised supply of pure water
- Water consumption: 8-10L per phase
- Built-in water softener with automatic selectable regeneration period

Electronic Programming

The Camlab CUB range of washing machines incorporates the latest in microprocessor technology. The machines can be programmed to carry out washing, rinsing and drying cycles to meet a wide range of specific or demanding requirements for the decontamination of laboratory glassware.

- 7 programs installed as standard
- Option for further 23 operator defined programs
- Screen dialogue messages, 2 lines x 20 characters
- Display shows cycle progress, internal temperature, and fault detection messages

As an optional extra, machines may be set up with a connection to an ASCII printer with a parallel port.

No Hidden Costs

The CUB and CUB EXTRA are supplied as complete working systems, although many accessories are available. Two basket trays and spray arms are included with the machines. In addition, we supply 25 litres each of CamClean detergent and CamAcid free of charge with each machine.



Camlab Cub Washing Machines



With Optional Plinth



Washing Machines

Demonstration Facilities

Demonstration facilities are available at our Cambridge offices specifically for customer trials and evaluation. This enables potential users to view and to operate the CUB range. Alternatively, a representative of our nationwide sales team would be pleased to visit you to discuss your requirements.

After Sales Service Support

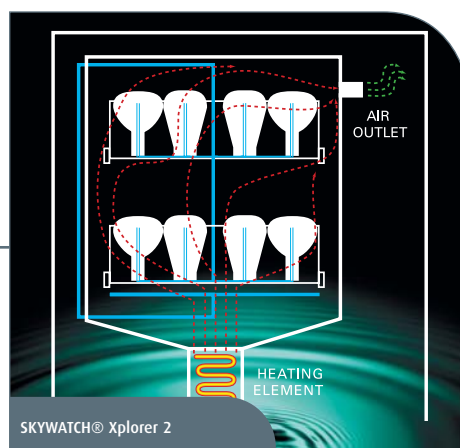
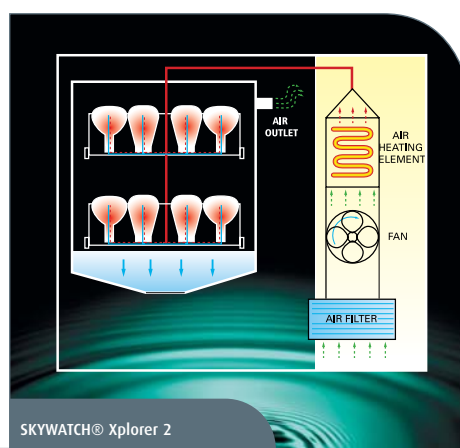
Our Service Department are always available nationwide for emergency or service contract repairs, both during and after the 12 month warranty period.

CUB Extra Drying System

A fan draws in filtered air and directs it into a heating system. Hot filtered air is delivered to the washing tank and channelled into the spigots of the jet rack. The air is directed onto the internal surfaces of the glassware and dries them. Drying takes place at up to 110°C, ensuring efficient drying of internal surfaces and an extremely fast cycle.

Cub Steam Drying System

The washing chamber is heated by electric heating elements, which causes the water to evaporate. The steam produced creates a slight internal pressure which escapes through a small outlet. Maximum air temperature is less than 95°C.specification



SPECIFICATIONS

Power Requirements (3 options):	(1) 400V, 3 phase with neutral, 16 amps per phase. (2) 220 240V single phase, 30 amp. (3) 220-240V, 13 amp (cycle time will be extended). Please state requirements when ordering.	
Water Pressure:	1 to 6 bar for hot, cold and deionised water supply (0.2 to 1 bar for low pressure D.I water)	
Water Temperature:	adjustable to 95°C	
Weight:	Model GW3050:	75kg
	Model GW4050:	100kg
Detergent:	built-in dispensers for liquid detergent	
Construction:	washing chamber and exterior - all stainless steel	
Effective Washing Heights:	basket trays on 2 levels: bottom level: 280mm top level: 190mm jet racks on 2 levels: bottom level: 240mm top level: 205mm jet rack on bottom level: 460mm	
Neutralisation/Acid Rinsing:	built-in pump automatically injects required amount of solution directly into washing machine chamber.	
Water Softener:	built-in regeneration takes place automatically, only needs periodical addition of salt	
Distilled Water:	fitted with valve or pump as required (please state water supply pressure)	
Wash Chamber Dimensions:	520x500x535mm (wxdxh)	
External Dimensions	GW3050: 600x630x860mm (wxdxh) GW4050: 900x630x860mm (wxdxh)	
Plinth Dimensions:	900x560x410mm (wxdxh)	

Washing Machines/Washing Machine Accessories

Ordering information

SM/GW3050	Camlab CUB under bench laboratory washing machine, with steam drying system, complete with two basket trays and spray arm assemblies, liquid dispenser for detergent and acid, fitted with valve or pump to customer's choice for final rinse cycle in either distilled or deionised water.	£4,920.00
SM/GW4050	Camlab CUB EXTRA under bench laboratory washing machine, with drying system. Supplied with two basket trays and spray arm assemblies, liquid dispenser for detergent and acid, fitted with valve or pump to customer's choice for final rinse cycle in either distilled or deionised water.	£6,080.00
SM/GW4050/P	Camlab CUB EXTRA laboratory washing machine, with plinth. Specification as GW4050 but inclusive of floor standing stainless steel plinth to increase the working height by 410mm.	£6,610.00



Jet Rack for Upper Level

WASHING MACHINE ACCESSORIES

Jet Rack for Upper Level

40 hollow spigots, each with height adjustment fittings.

Reference	Model	Price
SM/LM34S	GW3050	£840.00
SM/LM34S-DS	GW4050	£880.00

Upper Level Basket

With spray arm

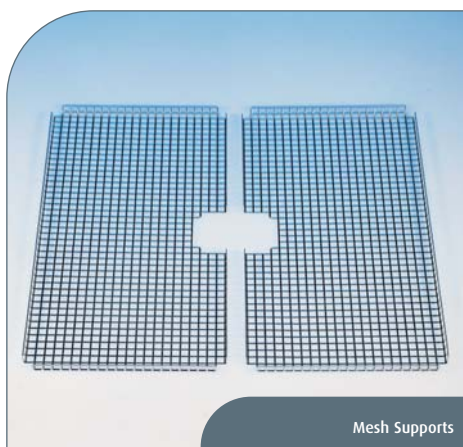
For glassware supports or large, wide mouth vessels. Fits both GW3050 & GW4050.

Reference	Price
SM/CS1	£440.00

Petri Dish Rack

For upper or lower level (place on basket CS1 or CS2). Holds 38 dishes, 70-120mm diameter. Fits both GW3050 & GW4050.

Reference	Price
SM/PD100S	£260.00



Mesh Supports

Slide Washing Rack

Each rack holds 105 slides.

Four racks can fit inside basket tray CS1 or CS2.

Reference	Price
SM/PV105	£137.00

Mesh Supports

Fit into the base of the basket trays to support small items.

Reference		Price
SM/PF1	Full mesh	£85.00
SM/PF1/2	Half mesh	£63.00

Washing Machine Accessories

Jet Rack for Lower Level

40 hollow spigots, each with height adjustment fittings.

Reference	Model	Price
SM/LM40	GW3050	£650.00
SM/LM40-DS	GW4050	£720.00

Lower Level Basket Tray

For use as above. Fits both GW3050 & GW4050.

Reference	Price
SM/CS2	£380.00

Mesh Baskets

Fits into base of basket tray to support small items.

Reference	Price
SM/CPF.1/2	1/2 bottom basket £75.00

Combination Rack for Upper and Lower Levels

Two jet racks, each with 40 hollow spigots and height adjustment fitting.

Reference	Model	Price
SM/LM80	GW3050	£1,170.00
SM/LM80-DS	GW4050	£1,180.00

Two Level Surgical Instrument Rack

With spray arm and 4 baskets. Fits both GW3050 & GW4050.

Reference	Price
SM/CSK	On Request

Beaker/Bottle Rack

Two racks will fit into either SM/CS1 or SM/CS2 basket tray, each holding 28 items, giving a total capacity of 112 items on the 4 racks. Fits both GW3050 & GW4050.

Reference	Price
SM/SB28	£67.00

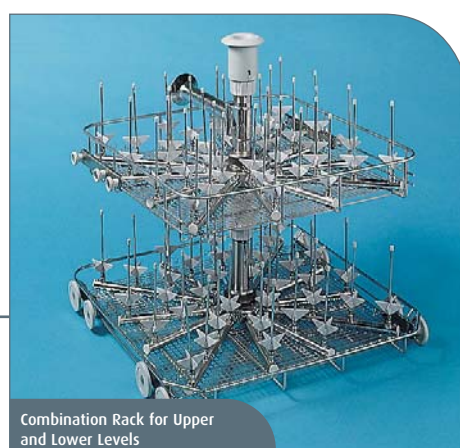
Nylon Lid Nets

Covers lightweight items to prevent them being dislodged during washing.

Reference	Price
SM/RC1	For complete basket £18.50
SM/RC1/2	For half basket £16.60
SM/RC1/4	For quarter basket £16.60



Jet Rack for Lower Level



Combination Rack for Upper and Lower Levels



Two Level Surgical Instrument Rack



Nylon Lid Nets

Washing Machine Accessories

Stainless Steel Baskets

Mesh basket, with removable lid, for test tubes and other small items of laboratory glassware.



Pipette Washers

Reference		Price
SM/CP132	For Tubes up to 105mm long	£82.00
SM/CP192	For Tubes up to 165mm long*	£92.00
SM/CP222	For Tubes up to 200mm long*	£99.00

*for use on lower basket tray only

Pipette Washers

Takes up to 100 pipettes from 1ml to 20ml, and heights up to 450mm. Pipette washer must be used with basket tray SM/CS2.

Reference	Model	Price
SM/LPT100	GW3050	£690.00
SM/LPT100-DS	GW4050	£830.00

CamClean & CamAcid

CamClean

A general purpose liquid cleaning agent suitable for use in all Camlab machines or any type of washing machine fitted with a liquid detergent capability. We are happy to supply samples for evaluation and quotations for bulk/contract supply.



CamClean & CamAcid

Ordering information

CCC.150	CamClean, 25 litre	£55.00
CCC.150/10	CamClean, 10 litre	£29.50

CamAcid

Our neutralising agent, CamAcid is suitable for use with all machines fitted with dispenser and programmed cycles for intermediate neutralisation following detergent wash.

Ordering information

CCC.200	CamAcid, 25 litre	£48.00
CCC.200/10	CamAcid, 10 litre	£26.50

WATER PURIFICATION

Labwater Deionisers 1 and 2

Designed for low volume infrequent use of pure or deionised water. They are easy to use and install and water is produced instantly at 30 or 60 litres per minute.

SPECIFICATIONS

	Labwater 1	Labwater 2
Flow rate	30litres/hour	60litres/hour
Feed water	0.5 - 5 bar	0.5 - 5 bar
Output (soft)	640litres	1280litres
Output (medium)	160litres	320litres
Output (hard)	106litres	212litres
Dimensions (wxdxh)	80x100x580mm	80x100x760mm
Weight	2.8kg	4.4kg

Labwater 1 deioniser

Reference: PE/L991042 £147.00

Replacement deioniser cartridge D340

Reference: PE/L991012 £64.00

Labwater 2 deioniser

Reference: PE/L991007 £186.00

Replacement deioniser cartridge D700

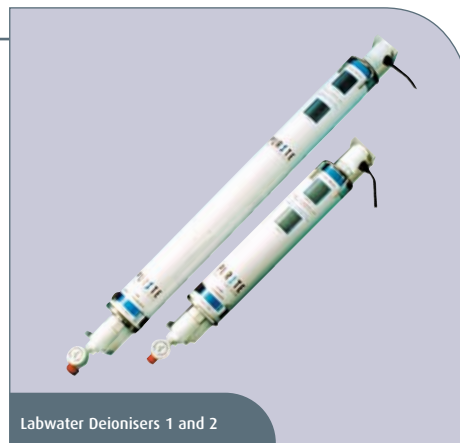
Reference: PE/L991013 £96.00

The Select Range

Versatile water purification units to fulfill all types of laboratory applications.

- Integral tank (20 litres) give compact footprint
- Water quality is monitored and displayed constantly on digital display
- Modular design for easy upgrade
- 50 litre external tank available
- Optional boost pump for low pressure areas
- Alarms notify the user of system status changes
- Multiple dispense options on HP model
- Easy change consumables

Water output			
Unit size:	40	80	160
Output at 25°C:	6 L/h	12 L/h	24 L/h
Output at 10°C:	3.6 L/h	7.2 L/h	14.4 L/h
(results generated at 60psi, 400ppm TDS)			



Labwater Deionisers 1 and 2



The Select Range



The Select Range

Water Purification

Choice of ANALYST AND HP models

The Analyst produces grade 2 water and is ideal for many everyday, pure water laboratory applications, such as glassware rinsing, buffers and stains, reagent make-up, media preparation. The HP model provides a consistent supply of high quality pure water (grade 1), ideal for HPLC, ion chromatography, atomic absorption, clinical analyser feed.

SPECIFICATIONS

	Analyst	HP
Water quality produced	grade 2	grade 1
	1 -10 Mø.cm	14 -18 Mø.cm
Maximum TDS	1000 ppm	1000 ppm
Minimum inlet pressure	2 bar*	2 bar
Maximum inlet pressure	6 bar	6 bar
Feedwater temperature	1 to 40°C	1 to 40°C
Power requirement	230V/50-60Hz	230V/50-60Hz
Dimensions (hwxwd)	630 x 408 x 548mm	630 x 440 x 548mm

* boost pump required if less than 2 bar

Ordering Information

PE/L998140	Analyst 40GP basic unit	£1,129.00
PE/L998145	Analyst 40 with internal tank	£1,375.00
PE/L998141	Analyst 40 with boost pump	£1,338.00
PE/L998146	Analyst 40 with pump and internal tank	£1,589.00
PE/L998150	Analyst 80GP basic unit	£1,375.00
PE/L998155	Analyst 80 with internal tank	£1,621.00
PE/L998151	Analyst 80 with boost pump	£1,589.00
PE/L998156	Analyst 80 with pump and internal tank	£1,835.00
PE/L998157	Analyst 160GP basic unit	£1,914.00
PE/L998162	Analyst 160 with internal tank	£2,164.00
PE/L998158	Analyst 160 with boost pump	£2,133.00
PE/L998163	Analyst 160 with pump and internal tank	£2,379.00
PE/L998190	HP40GP basic unit	£2,039.00
PE/L998194	HP40 with internal tank	£2,285.00
PE/L998191	HP40 with boost pump	£2,253.00
PE/L998195	HP40 with pump and internal tank	£2,499.00
PE/L998200	HP80GP basic unit	£2,248.00
PE/L998204	HP80 with internal tank	£2,494.00
PE/L998201	HP80 with boost pump	£2,462.00
PE/L998205	HP80 with pump and internal tank	£2,708.00
PE/L998206	HP160GP basic unit	£2,797.00
PE/L998210	HP160 with internal tank	£3,043.00
PE/L998207	HP160 with boost pump	£3,011.00
PE/L998211	HP160 with pump and internal tank	£3,257.00



European Pharmacopoeia Reagents and Standards

Ready to Use

ADVANTAGES:

Savings	Preparation time, Raw materials, QC, Disposal
Security	Prepared as per EP in ISO 9001 facility
Experience	5 year history
Expertise	Currently used by major Pharmaceutical Companies in EUROPE, USA and ASIA
Excellence	Certificate of Analysis Stable

Reagecon

- Primary Opalescence Suspension
- Primary Colour Solutions
- Standard Colour Solutions
- Reference Buffer Solutions
- Conductivity/Resistivity Solutions
- Limit Tests
- Volumetric Solutions



contact camlab on
01954 233110

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AL/AAR130	166	BY/2145/10M	186	CW/53.55.50	11	HH/02248-01	121	HH/22722-00	29	HH/28159-45	20
AL/AMA240	166	BY/PFL001N	201	CW/53.55.50	33	HH/02249-02	122	HH/22723-00	29	HH/28797-04	20
AL/AMB220	166	BY/PFL002	201	CW/53.55.60	11	HH/02249-03	122	HH/22725-00	29	HH/4011.53.21112	156
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AM/AMB110	167	CCC.200	216	CW/53.55.80	33	HH/02460-66	19	HH/22728-00	29	HH/43975-00	132
AM/AMB310	167	CCC.200/10	216	CW/53.56.00	10	HH/02461-42	135	HH/22778-00	27	HH/43975-00	133
AM/AMB50	167	CN/1015/22D	80	CW/53.56.00	33	HH/02461-49	135	HH/22779-24	27	HH/44740-00	132
AM/AQT1500	167	CN/SA7	191	CW/53.56.00	35	HH/02556-00	89	HH/22780-24	27	HH/45300-00	38
AM/AQT200	167	CN/SA8	191	CW/53.56.50	10	HH/1000A1X12	157	HH/22781-24	27	HH/45300-00	105
AM/AQT2000	167	CN/SA8/1	192	CW/53.56.50	33	HH/1000A24X05	157	HH/22880-00	29	HH/45300-02	38
AM/AQT250	167	CN/SM27	206	CW/53.56.90	12	HH/1000A24X1	157	HH/22917-00	86	HH/46080-00	132
AM/AQT2600	167	CN/SM27/1	206	CW/53.57.00	35	HH/12519-00	113	HH/22993-00	89	HH/46500-02	132
AM/AQT5000	167	CN/SM27/2	206	CW/53.57.00	12	HH/12522-00	121	HH/23130-21	26	HH/47000-02	133
AM/AQT600	167	CN/SR2	191	CW/53.57.00	35	HH/12524-00	53	HH/23199-00	19	HH/47001-02	133
AP/ET0001	28	CN/SW5	80	CW/53.60.00	11	HH/12527-00	67	HH/23458-52	69	HH/47076-00	132
AP/ET0001L	28	CN/SW6	80	CW/53.60.00	35	HH/12710-99	19	HH/23459-52	69	HH/47089-00	133
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AP/ET0004	28	CW/2.42.07.20	10	CW/71.00.05	9	HH/14064-28	65	HH/23593-00	92	HH/47450-02	133
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AP/ET0101	28	CW/2.42.07.22	10	CW/72.13.00	103	HH/14064-99	65	HH/24159-51	20	HH/48440-00	18
AP/ET0113	28	CW/2.44.44.06	54	CW/72.22.20	70	HH/14070-28	65	HH/24159-51	69	HH/48450-00	18
AP/ET014	28	CW/2.44.44.10	54	CW/72.23.00	71	HH/14070-99	19	HH/24218-00	123	HH/48470-00	18
AP/ET017	28	CW/20.60.10	34	CW/72.32.01	97	HH/14070-99	65	HH/24293-00	20	HH/49425-00	18
AP/ET018	28	CW/20.60.20	130	CW/72.32.10	97	HH/14111-00	31	HH/24296-00	20	HH/49427-00	18
AP/ET019	28	CW/20.60.50	34	CW/72.32.20	96	HH/14161-00	94	HH/24297-00	20	HH/49665-00	38
AP/HCT052	28	CW/20.61.20	34	CW/72.32.21	96	HH/14193-01	92	HH/24298-00	19	HH/49665-00	106
AP/HER300	28	CW/20.61.80	34	CW/72.32.22	96	HH/14213-00	76	HH/24300-00	19	HH/51700-10	105
AP/HER300	28	CW/20.61.90	34	CW/72.32.30	97	HH/14364-01	29	HH/24302-00	19	HH/51700-11	105
AP/HER300	28	CW/20.64.00	51	CW/72.32.50	97	HH/14377-01	29	HH/24443-01	50	HH/51725-10	105
AP/HER300	28	CW/20.65.00	52	CW/72.32.60	97	HH/14378-01	29	HH/24444-00	64	HH/51725-11	106
AP/HER300	28	CW/20.69.00	60	CW/72.50.20	97	HH/14379-01	29	HH/24448-00	29	HH/51800-10	72
AP/HER301	28	CW/20.69.00	61	DH/30110	207	HH/14380-01	29	HH/24466-00	19	HH/51815-01	99
AP/HER302	28	CW/20.72.00	75	DH/30125	207	HH/14388-01	29	HH/24468-00	19	HH/51815-03	99
AP/HER308	28	CW/20.72.10	136	DR/IR-35	168	HH/14389-01	29	HH/24472-00	29	HH/51815-05	99
AP/HER312	28	CW/20.72.40	85	EA/1004170	211	HH/14393-01	29	HH/24475-00	29	HH/51815-15	99
AP/HER313	28	CW/20.73.00	85	EA/1005507	211	HH/14396-01	29	HH/24480-00	29	HH/51825-01	100
AP/HER314	28	CW/20.74.00	87	EH/EC-620-165	74	HH/14399-01	29	HH/24481-00	29	HH/51825-03	100
AP/HER315	28	CW/20.76.00	94	EH/EC-CON6000/43S	74	HH/14399-01	29	HH/24492-00	29	HH/51825-05	100
AP/HER316	28	CW/20.77.00	101	EH/EC-PH6500/42S	110	HH/14401-01	29	HH/24493-00	29	HH/51825-15	100
AP/HER318	28	CW/20.78.00	120	EO/TLC1598	129	HH/14495-01	27	HH/24494-00	19	HH/51830-02	100
AP/HER318	28	CW/20.79.00	119	ET/6602-3780	127	HH/14542-01	63	HH/24593-00	20	HH/51850-01	97
AP/HER319	28	CW/20.80.10	82	EU/A2001/04B	171	HH/14542-00	63	HH/24711-00	64	HH/51875-02	38
AP/HER319	28	CW/20.81.00	123	EU/A2001/05B	171	HH/14542-02	63	HH/24836-00	118	HH/51875-02	72
AP/HER324	28	CW/20.85.00	135	EU/A2001/07B	171	HH/14554-00	124	HH/25010-25	20	HH/51875-02	97
AP/HTC001	28	CW/20.86.00	86	EU/A2001/08B	171	HH/14961-01	29	HH/25020-25	19	HH/51875-02	106
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AP/HTC003	28	CW/20.92.20	34	EU/A2004/03B	185	HH/19380-04	18	HH/25040-25	19	HH/51903-00	72
AP/HTC004	28	CW/20.92.50	69	EU/A2004/05B	185	HH/19380-04	97	HH/25050-25	19	HH/51903-00	97
AP/HTC004	28	CW/20.93.00	81	EU/A2004/06B	185	HH/19380-04	105	HH/25060-25	19	HH/51903-00	105
AP/HTC008	28	CW/20.94.00	71	EU/A2004/07B	185	HH/20596-00	95	HH/25070-25	19	HH/51917-00	38
AP/HTC008	28	CW/20.97.00	97	EU/A2010/02	185	HH/20603-00	63	HH/25080-25	20	HH/51968-00	97
AP/HTC009	28	CW/20.99.40	34	EU/A2010/03	185	HH/20631-00	100	HH/25090-25	20	HH/51970-00	97
AP/HTC009	28	CW/20.99.50	61	EU/A2010/04	185	HH/20633-00	126	HH/25100-25	19	HH/51973-00	97
AP/HTC014	28	CW/21.00.70	8	EU/A2010/05	185	HH/20635-00	59	HH/25110-25	19	HH/51975-00	72
AP/HTC015	28	CW/24.20.720	33	FL/6601-0104	40	HH/20636-00	84	HH/25120-25	20	HH/51975-03	72
AP/HTC023	28	CW/24.20.720	69	FR/BOD-10	55	HH/20637-00	50	HH/25140-25	19	HH/54650-10	38
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AP/HTC029	28	CW/24.20.721	69	GT/GBT28	169	HH/20640-00	48	HH/25160-25	20	HH/54650-12	38
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AP/HTC044	28	CW/24.20.722	69	GT/GBT6	169	HH/20644-00	102	HH/25180-25	20	HH/54650-14	38
AP/HTC050	28	CW/27.00.00	60	GT/SUB14	169	HH/20671-00	113	HH/25220-98	19	HH/54650-15	38
AP/HTC051	28	CW/53.01.00	10	GT/SUB28	169	HH/20760-32	20	HH/25240-25	19	HH/58700-00	61
AP/HTC056	28	CW/53.01.00	35	GT/SUB36	169	HH/20817-01	29	HH/25250-25	20	HH/58700-01	56
AP/HTC056	28	CW/53.01.00	65	GT/SUB6	169	HH/20818-01	29	HH/25378-00	125	HH/58700-02	93
AP/HTC060	28	CW/53.01.03	35	HH/00444-49	19	HH/20849-00	133	HH/25435-00	89	HH/58700-03	100
AP/HTC061	28	CW/53.01.03	65	HH/00921-01	29	HH/21055-28	65	HH/25448-00	19	HH/58700-04	101
AP/HTC102	28	CW/53.01.10	35	HH/01037-69	19	HH/21055-69	19	HH/25569-00	139	HH/58700-05	81
AP/MMD1002	45	CW/53.01.10	65	HH/01269-36	132	HH/21055-69	65	HH/25570-00	139	HH/58700-05	81
AP/MMD1003	45	CW/53.01.13	35	HH/01436-01	57	HH/21056-28	65	HH/25872-00	82	HH/58700-06	120
AP/MMD1004	45	CW/53.01.13	65	HH/01440-01	59	HH/21056-69	19	HH/25972-00	20	HH/58700-08	119
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AP/MMD1005	45	CW/53.01.20	35	HH/01453-00	83	HH/21056-69	65	HH/26041-00	19	HH/58700-10	92
AP/MMD1005A	45	CW/53.01.20	65	HH/01454-00	82	HH/21057-69	19	HH/26045-45	20	HH/58700-15	91
AP/MMD1006	45	CW/53.01.23	35	HH/01454-01	82	HH/21058-69	19	HH/26053-45	19	HH/58700-16	87
AP/MMD1007	45	CW/53.01.23	65	HH/01457-00	84	HH/21060-69	20	HH/26069-45	20	HH/58700-17	67
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AP/MMD1036	45	CW/53.01.30	65	HH/01464-00	88	HH/21067-69	20	HH/26087-99	19	HH/58700-19	76
AP/MMD1037	45	CW/53.01.33	35	HH/01464-01	88	HH/21075-69	20	HH/26197-00	55	HH/58700-20	93
AP/MMD2502	45	CW/53.01.33	65	HH/01465-00	88	HH/21133-01	119	HH/26234-51	20	HH/58700-21	90
AP/MMD2503	45	CW/53.03.00	11	HH/01467-00	92	HH/21133-02	119	HH/26575-12	20	HH/58700-22	87
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RN/1060	110	SC/2110624	171	SM/LM34S-DS	214	SX/GLT36	181	TT/51.17.70	12	WN/6714-2504	184
RN/10605	110	SC/2110636	171	SM/LM40	215	SX/GLT38	181	TT/51.21.70	10	WN/6714-6004	182
RN/1068	110	SC/2110641	171	SM/LM40-DS	215	SX/NSP18.8	181	TT/51.21.70	11	WN/6716-2504	184
RN/10685	110	SC/2110648	171	SM/LM80	215	SX/NSP24	181	TT/51.23.10	11	WN/6718-2504	184
RN/1070	110	SC/2110654	171	SM/LM80-DS	215	SX/NSP29.2	181	TT/51.23.50	12	WN/6870-1302	183
RN/10705	110	SC/2110663	171	SM/LPT100	216	SX/NSP45	181	TT/51.23.80	10	WN/6870-1304	183
RN/10705C	111	SC/2110673	171	SM/LPT100-DS	216	SX/NSP18.8	181	TT/51.23.80	11	WN/6870-2502	183
RN/1070C	111	SC/2110686	171	SM/PD100S	214	SX/NST24	181	TT/51.23.90	12	WN/6870-2504	183
RN/1080	110	SC/2121614	185	SM/PF1	214	SX/NST29.2	181	TT/51.25.80	10	WN/6871-2502	183
RN/10805	110	SC/2121617	185	SM/PF1/2	214	TS/0560.5350	58	TT/51.25.80	12	WN/6871-2504	183
RN/1090	110	SC/2121624	185	SM/PV105	214	TS/0560.5350	58	TT/51.25.90	10	WN/6872-1302	183
RN/10905	110	SC/2121636	185	SM/RC1	215	TT/14.20.00	24	TT/51.25.90	12	WN/6872-1304	183
RN/1100	110	SC/2121644	185	SM/RC1/2	215	TT/14.20.50	24	TT/51.26.20	12	WN/6872-2502	183
RN/11005	110	SC/2121654	185	SM/RC1/4	215	TT/14.55.00	24	TT/51.30.00	10	WN/6872-2504	183
RN/11005C	111	SC/2121663	185	SM/SB28	215	TT/14.55.10	24	TT/51.30.40	12	WN/6873-2504	183
RN/1100C	111	SC/21-801-145	173	SNA-11.111.000	150	TT/14.70.00	62	TT/51.30.50	12	WN/6874-1302	183
RN/1110	110	SC/21-801-175	173	SNA-11.111.200	150	TT/14.70.10	62	TT/51.30.60	11	WN/6874-1304	183
RN/11105	110	SC/21-801-245	173	SNA-21.111.041	151	TT/14.70.25	32	TT/51.30.70	11	WN/6874-2502	183
RN/1120	110	SC/21-801-365	173	SNA/A21.121.020	152	TT/14.70.28	32	TT/51.31.30	12	WN/6874-2504	183
RN/11205	110	SC/21-801-445	173	SNA-22.251.045	147	TT/14.70.30	62	TT/51.31.40	12	WN/6875-2504	183
RN/1130	110	SC/21-801-545	173	SNA-22.251.245	147	TT/14.70.40	62	TT/51.31.50	12	WN/6876-1302	183
RN/11305	110	SC/21-801-635	173	SNA-22.311.000	149	TT/14.71.00	112	TT/51.32.10	10	WN/6878-1304	183
RN/5010	110	SC/21-801-735	173	SNA-22.511.110	148	TT/14.71.10	112	TT/51.32.20	11	WN/6878-2502	183
RN/5020	110	SC/21-801-865	173	SNA-22.511.130	148	TT/14.71.20	112	TT/51.32.30	10	WN/6878-2504	183
RN/5030	110	SC/28.512.9114	194	SNA-23.131.045	143	TT/14.71.30	112	TT/51.35.50	10	WN/6880-1302	183
RN/5040	110	SC/28.512.9122	194	SNA-23.131.245	143	TT/14.72.00	51	TT/51.35.60	10	WN/6880-1304	183
RN/5040C	111	SC/28.512.9147	194	SNA-23.421.000	142	TT/14.72.10	52	TT/51.53.70	10	WN/6880-2502	183
RN/5050	110	SC/28.512.9155	194	SNA-24.411.100	162	TT/14.72.20	88	TT/51.53.70	11	WN/6881-2504	183
RN/5060	110	SC/28.512.9163	194	SNA-24.510.100	161	TT/14.72.80	56	TT/51.53.70	11	WN/6882-2516	183
RN/5068	110	SC/28.512.9217	195	SNA-24.510.110	161	TT/14.72.90	92	TT/51.54.20	10	WN/6884-1310	183
RN/5070	110	SC/28.512.9225	195	SNA-25.110.000	159	TT/14.73.00	95	TT/51.54.20	11	WN/6884-2510	183
RN/5070C	111	SC/28.512.9233	195	SNA-25.110.110	159	TT/14.73.00	120	TT/51.54.20	11	WN/6886-2512	183
RN/5080	110	SC/28.512.9241	195	SNA-25.111.000	159	TT/14.73.20	88	TT/51.54.50	12	WN/6888-1327	183
RN/5090	110	SC/28.512.9258	195	SNA-25.111.110	159	TT/14.73.30	66	TT/51.54.80	10	WN/6888-2527	183
RN/5100	110	SC/28.512.9311	195	SNA-25.120.000	158	TT/14.73.50	124	TT/51.56.50	11	WN/6890-2507	183
RN/5100C	111	SC/28.512.9139	194	SNA-25.210.000	154	TT/14.73.60	124	TT/51.56.60	10	WN/6894-1304	183
RN/5110	110	SC/28.513.8402	196	SNA-25.210.010	154	TT/14.73.80	126	TT/51.56.70	12	WN/6894-2504	183
RN/5120	110	SC/28.520.1310	107	SNA-25.211.000	154	TT/14.74.00	94	TT/51.57.40	10	WN/6895-2504	183
RN/5130	110	SC/28.520.1330	107	SNA-25.411.200	164	TT/14.74.30	76	TT/51.57.40	10	WN/6896-2504	183
RN/BPH01	111	SC/28.520.1350	107	SNA-25.411.220	164	TT/14.74.30	78	TT/51.57.40	10	WN/6896-3502	183
RN/BPH02	111	SC/28.520.2793	98	SNA/A25.411.500	163	TT/17.02.60	24	TT/51.57.40	65	WN/6900-2502	183
RN/BPH03	111	SC/28.520.2917	106	SNA/A25.411.520	163	TT/17.02.90	24	TT/51.59.10	10	WN/6900-2504	183
RN/BPH04	111	SC/28.520.2982	106	SNA-25.421.000	155	TT/17.03.60	24	TT/51.59.20	10	WN/6901-2502	183
RN/BPH05	111	SC/28.520.2999	106	SNA-25.441.010.0	141	TT/17.05.00	24	TT/51.59.59	12	WN/6901-2504	183
RN/BPH06	111	SC/28.520.3054	106	SNA-26.111.000	140	TT/17.20.00	24	TT/51.59.60	12	WN/6970-2504	184
RN/COD10	69	SC/28.520.3062	106	SNA-26.511.000	145	TT/17.21.50	24	TT/51.60.80	11	WN/6972-2504	184
RN/COD100	69	SC/28.520.3321	73	SNA-27.111.011	138	TT/19.36.00	130	TT/51.60.90	11	WN/6974-2504	184
RN/COD1000	69	SC/28.520.3346	73	SNA-27.121.01	146	TT/19.76.20	8	TT/51.61.00	11	ZS/998-11-20	17
RN/COD10M	69	SC/28.520.3379	73	SPB.1531	202	TT/19.76.20	9	TT/51.80.20	12	ZS/998-1-5	17
RN/COD1300	69	SC/28.520.3473	39	SR/MA35	168	TT/19.76.65	8	TT/71.00.00	9	ZS/998-21-50	17
RN/COD1500	69	SC/28.520.3519	39	SR/PP-201	166	TT/19.76.65	9	TT/71.11.60	9	ZS/998-25/1	17
RN/COD200	69	SC/28.520.4959	73	SX/09.511.707	181	TT/19.76.65	130	TT/72.12.30	103	ZS/998-25/2	17
RN/COD50	69	SC/28.520.4959	106	SX/09.521.621	181	TT/19.80.65	8	TT/72.12			

CAMLAB TERMS AND CONDITIONS

1	GENERAL	7.4	If the Customer declines to accept goods when available for delivery or as agreed, Camlab may at its discretion store the goods and take reasonable steps to prevent their deterioration until actual delivery and the Customer shall pay Camlab the reasonable cost (including insurance) of so doing.		be at Camlab's discretion and will be advised when the return of goods is agreed.	15.3	Nothing in these conditions excludes or limits the liability of Camlab for death or personal injury caused by Camlab's negligence or for fraudulent misrepresentation.
1.1	In these conditions:						
1.2	"Camlab" shall mean Camlab Limited or any subsidiary or associated company.			10.6.	Goods for repair – Goods sent for repair must be accompanied by an order. Goods sent for a repair quotation must be covered by a letter. Camlab may at its discretion charge for return of the goods to the Customer whether work is carried out or not. Unless otherwise agreed by Camlab, Camlab will charge a fee for repairs effected other than repairs pursuant to clause 14.7.	15.4	Subject to the above:
1.3	"Customer" shall mean any company or any subsidiary or associated company, organisation or person ordering, or accepting a quotation for, Camlab's goods or services.	7.5	Camlab shall not be liable for any non-delivery of goods (even if caused by Camlab's negligence) unless written notice is given to Camlab within 7 days of the date of the invoice.			15.4.1	Camlab's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of this Contract shall be limited to the Contract price; and
1.4	"communication" shall mean any communication or imparting of information whether verbal or by any other means.	7.6	Receipt of an invoice must be regarded as notification of despatch. If the goods have not been received within 7 days of invoice date Camlab (and the carrier if known) must be informed in writing in accordance with clause 7 so that the consignment can be traced or a claim lodged.	11.	GOODS ON APPROVAL OR LOAN	15.4.2	Camlab shall not be liable to the Customer for any indirect or consequential loss or damage (whether for loss of profit, loss of business, depletion of goodwill or otherwise), costs, expenses or other claims for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the Contract.
1.5	"these conditions" shall mean these conditions in full. If any provision of these conditions is held by any competent authority to be invalid or unenforceable in whole or in part, the validity of the other conditions and the remainder of the provision in question shall not be affected thereby.	7.7	Any liability of Camlab for non-delivery of the goods shall be limited to replacing the goods within a reasonable time or issuing a credit note against any invoice raised for such goods.	11.1	The Customer, at its discretion, may provide Goods to the Customer for a trial period prior to the Customer entering into a contract to purchase the Goods. Goods may also be provided temporarily to the Customer as substitute for corresponding Goods that the Customer sends to Camlab for repair. Charges for the provision of Goods on approval or loan shall be as agreed between the parties.	15.5	Nothing in these conditions shall affect the statutory rights of the Customer dealing as a consumer.
1.6	"Intellectual property" means any patent, copyright, registered design or unregistered design right, trade marks (whether registered or unregistered) and any application for any of the foregoing, any rights in respect of confidential information and any other intellectual property right.	8	PROPERTY AND RISK All goods are supplied by Camlab on the following conditions:	11.2	Goods provided as above shall be under the control of the Customer at all times from delivery until redelivery and the Customer shall ensure that: the Goods are used safely and without risk to health; used by competent staff; and not used for any purpose for which it is not designed or reasonably suited.	16	INFRINGEMENT OF PATENTS, REGISTERED DESIGNS ETC.
2	APPLICATION OF TERMS	8.1	Risk shall pass to the Customer on delivery of the goods in accordance with clauses 7.1 or 7.2.	11.3	The Customer shall be responsible for and shall indemnify Camlab against all loss or damage caused to the Goods from whatsoever cause arising.	16.1	Where goods are supplied to special order the Customer will indemnify and keep Camlab fully and effectively indemnified against all costs, claims, damages, losses, liabilities and expenses of whatever kind incurred or suffered by Camlab as a result of using a specification or design stipulated by the Customer.
2.1	Subject to any variation under condition 2.2 the Contract will be on these conditions to the exclusion of all other terms and conditions (including any terms or conditions which the Customer purports to apply under any purchase order, confirmation of order, specification or other document). No terms or conditions will form part of the Contract simply as a result of such document being referred to in the Contract.	8.2	The goods shall remain the sole and absolute property of Camlab until payment in full of the price of the goods, in cash or cleared funds, has been received.	11.4	The Customer shall not move the Goods from the Customer's premises without Camlab's prior written consent. The Customer shall keep the Goods in its sole possession and shall not lend or sublet it to any person or otherwise part with possession of it in any way. The Customer acknowledges that the Goods remain the property of Camlab at all times and must not be sold or used as security. The Customer shall not permit any lien to be created on the Goods or pledge Camlab's credit for repairs to Goods.	16.2	Whilst all Goods are supplied in good faith Camlab can give no undertaking that use or sale of Goods supplied will not cause the Customer to infringe third party intellectual property rights or similar proprietary rights.
2.2	These conditions apply to all Camlab's sales and any variation to these conditions and any representations about the Goods shall have no effect unless expressly agreed in writing and signed by an authorised representative of Camlab. Nothing in this Condition will exclude or limit Camlab's ability for fraudulent misrepresentation.	8.3	Until the goods are paid for in full, the Customer shall:			17	FORCE MAJEURE
		8.3.1	hold the Goods on a fiduciary basis as Camlab's bailee;	11.5	The Customer must not attempt to repair the Goods in the event of damage or breakdown but must notify Camlab at once.	17.1	Neither party shall be liable for any circumstances beyond their reasonable control.
		8.3.2	store the Goods (at no cost to Camlab) separately from all other goods of the Customer or any third party in such a way that they remain readily identifiable as Camlab's property;	11.6	Camlab may require the return of Goods at any time.	18	APPLICABLE LAW
2.3	Each order for Goods by the Customer from Camlab shall be deemed to be an offer by the Customer to purchase Goods subject to these conditions.	8.3.3	not destroy, deface or obscure any identifying mark or packaging on or relating to the Goods;			18.1	The contract shall be governed by and construed in accordance with English law and the parties irrevocably agree to submit to the jurisdiction of the English Courts save that Camlab shall be entitled at its sole discretion to refer such disputes to the courts of any jurisdiction in which the Customer carries or has carried on business.
2.4	No order placed by the Customer shall be deemed to be accepted by Camlab until a written acknowledgement of order is issued by Camlab or (if earlier) Camlab delivers the Goods to the Customer.	8.3.4	maintain the Goods in satisfactory condition and keep them insured on Camlab's behalf for their full price against all risks to the reasonable satisfaction of Camlab. On request the Customer shall produce the policy of insurance to Camlab; and	12	INSTALLATION, MAINTENANCE & REPAIR BY CAMLAB	19	HEALTH AND SAFETY
2.5	The Customer must ensure that the terms of its order and any applicable specification are complete and accurate.	8.4	The Customer may resell the goods before ownership has passed to it solely on the following conditions:	12.1	The provision of services of a suitable type and in a suitable location, which are necessary for the installation, is the responsibility of the Customer. Equipment to be installed, maintained or repaired must, by prior arrangement, be available for working on when Camlab personnel arrive. Equipment for maintenance or repair must be properly decontaminated in accordance with clause 19.4. Where services and/or equipment is not available as above, Camlab reserve the right to charge expenses for time and/or travelling. This applies to any installation, maintenance or repair undertaken by Camlab whether quoted free of charge or not. Camlab will issue an invoice in respect of delivered products which, should installation be deferred at the request of the Customer, is payable in accordance with clause 9.	19.1	General – Goods supplied should be used only for the purpose for which they are intended and in accordance with any instructions supplied. The Customer is responsible for determining suitability for use when:
2.6	Any quotation is given on the basis that no contract will come into existence until Camlab despatches an acknowledgement of order to the Customer. Unless otherwise specified, any quotation is valid for a period of 30 days only from its date, provided that Camlab has not previously withdrawn it.	8.4.1.	any sale shall be effected in the ordinary course of the Customer's business at full market value; and			19.1.1	services and/or ancillary items are used with goods supplied,
		8.4.2.	any such sale shall be a sale of Camlab's property on the Customer's own behalf and the Customer shall deal as principal when making such a sale.	13	ORDER CANCELLATION	19.1.2	goods are specially manufactured or altered for Customers at their specific request.
		8.5.	Any right of the Customer to possession of the goods shall cease immediately if:	13.1	Cancellation or part cancellation of an order can only be accepted with Camlab's prior agreement. Camlab reserve the right to recover from the Customer any costs and expenses incurred up to the date of cancellation.	19.2	Hazardous materials – Camlab will only supply and consign hazardous materials to bona fide businesses and reserve the right to withhold supplies of such goods from any Customer. Camlab accepts responsibility for providing suitable packaging and means of transport in compliance with all relevant English legislation for delivery to Customers in accordance with clauses 7.1 or 7.2. If Camlab delivers a hazardous material to the Customer it will provide Safety Data Sheets (as required by The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994) free of charge no later than the date on which the material is first supplied to the Customer. Camlab will on request provide further Safety Data Sheets and any other available information to assist Customers in conducting risk assessments. It is the Customer's responsibility to conduct such assessments and Camlab is not liable for any failure on the part of the Customer to do so. Once in possession of any hazardous material, the Customer shall accept responsibility for ensuring its safe handling, storage and use.
3	QUALITY ASSURANCE	8.5.1.	The Customer becomes unable to pay or stops paying its debts;	14	QUALITY	19.3	Return of hazardous materials to Camlab's premises – The Customer accepts responsibility for providing suitable packing, labelling, documentation and means of transport in compliance with existing legislation, and accepts full liability for handling and transportation when hazardous materials are returned to Camlab.
3.1	Camlab is a BSI Registered Stockist to BS EN ISO 9001:2000, Certificate No. RS25527. A statement of quality conformance, in accordance with Camlab's Quality Management System, is provided for all products and will be incorporated in the Customer's Packing Note. Certificates of Conformity will be supplied when specified in the contract for which Camlab reserve the right to levy a charge. The current charge for a certificate will be quoted on request.	8.5.2.	The Customer makes an arrangement with its creditors generally;	14.1	Where Camlab is not the manufacturer of the Goods, Camlab will endeavour to transfer to the Customer the benefit of any warranty or guarantee given to Camlab.	19.4	Contaminated equipment for repair, return or maintenance – The Customer is responsible for ensuring that any equipment which has been exposed to any hazardous or potentially hazardous material is properly decontaminated prior to the commencement of any work on that equipment by Camlab personnel. The Customer will issue a certificate detailing the nature of the contaminant(s) and the procedures used to ensure adequate decontamination. Camlab reserve the right to charge additional expenses incurred as a result of the Customer failing to decontaminate equipment. The Customer accepts full liability should injury be caused by any such contamination and shall indemnify Camlab against any claims and costs suffered or incurred by Camlab as a result of injury to Camlab's employees, agents or subcontractors arising from such contamination.
4	PRICES	8.5.3.	a receiver is appointed over any of the Customer's property whereupon Camlab shall have the right by its servants or agents to enter onto any premises owned or occupied by the Customer or any third party in order to remove such of the goods as maybe stored there.	14.2	Camlab warrants that (subject to the other provisions of these conditions) upon delivery the goods will be of satisfactory quality within the meaning of the Sale of Goods Act 1994.	20	GENERAL
4.1	All orders are subject to a minimum value, excluding VAT and delivery	8.6.	Payment shall be due whether or not property in the goods has passed as above and Camlab shall be entitled to sue for any monies due under any contract even if the property in the goods has not passed.	14.3	Camlab warrants that (subject to the other provisions of these conditions) upon delivery the Goods will comply with the description in the acknowledgement of order and despatch note.	20.1	Each right or remedy of Camlab under the Contract is without prejudice to any other right or remedy of Camlab whether under the Contract or not.
4.2	We reserve the right to make an environmental charge (where applicable) where we incur costs as a result of the necessity to comply with current legislation requirements	8.7.	The Customer grants Camlab, its agents and employees an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Customer's right to possession has terminated, to recover them.	14.4	Camlab shall not be liable for a breach of warranty unless:	20.2	If any provision of these conditions is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability, unenforceability or unreasonableness be deemed severable and the remaining provisions of these conditions and the remainder of such provision shall continue in full force and effect.
4.3	Prices given in any Camlab communication should only be regarded as correct at time of issue, or if printed, correct at date of publication. All prices and charges, other than those fixed by specific contract, are subject to alteration without notice.	9	TERMS OF PAYMENT AND CREDIT	14.5	The Customer gives written notice of any immediately apparent damage to the Goods or discrepancy between the order and the delivered Goods within 3 days of receipt of the Goods;	20.3	Failure or delay by Camlab in enforcing or partially enforcing any provision of the Contract will not be construed as a waiver of any of its rights under these conditions.
4.4	Any typographical clerical or other error or omission shall be subject to correction without any liability on the part of Camlab.	9.1	Unless Camlab has agreed in writing other terms, payment should reach Camlab on or before the last working day of the month following the month of the invoice date. The right is reserved to request a remittance with order, or to submit a pro forma invoice where the purchaser does not have a credit account with the seller. Camlab also reserve the right to charge interest at 2% above the Barclays Bank Plc base rate ruling at the date the amount is due. Camlab may, at its discretion, refuse or limit the amount of credit given to any customer and withhold supplies therefrom.	14.5.1	In all other cases the Customer gives written notice of the defect to Camlab within 7 days of the time when the Customer discovers or ought to have discovered the defect; and	20.4	Any waiver by Camlab of any breach of, or any default under, any provision of the Contract by the Customer will not be deemed a waiver of any subsequent breach or default and will in no way affect the other terms of these conditions.
4.5	The price for the Goods shall be exclusive of any value added tax and all cost and charges in relation to unloading and insurance.	9.2	Time for payment shall be of the essence.	14.5.2	Camlab is given a reasonable opportunity after receiving the notice of examining such Goods and the Customer (if asked to do so by Camlab) returns such Goods to Camlab's place of business at (Camlab's) cost for the examination to take place there.	20.5	No term of these conditions will be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person other than Camlab or the Customer.
5	DESCRIPTION	9.3	No payment shall be deemed to have been received until Camlab has received cleared funds.	14.6	Camlab shall not be liable for a breach of the warranties if:		
5.1	The description of the Goods shall be as set out in Camlab's acknowledgement of order.	9.4	All payments payable to Camlab under the Contract shall become due immediately upon termination of this Contract despite any other provision.	14.6.1	The Customer makes any further use of such Goods after giving such notice; or		
5.2	All drawings, descriptive matter, specifications and advertising issued by Camlab and any descriptions or illustrations contained in Camlab's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They will not form part of this Contract.	9.5	The Customer shall make all payments due under the Contract without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Customer has a valid court order requiring an amount equal to such deduction to be paid by Camlab to the Customer.	14.6.2	the defect arises because the Customer failed to follow Camlab's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Goods or (if there are none) good trade practice; or		
6	TRANSPORT AND CARRIAGE	9.6	Camlab can accept payments by credit card (Visa and Mastercard) and by bank card (Switch and Delta)	14.6.3	the Customer alters or repairs such Goods without the written consent of Camlab.		
6.1	Despatch of goods will be made by the most appropriate method or as specified by the Customer (subject to all Health & Safety and other relevant regulations being met).	10	RETURNED GOODS	14.7	Subject to the above, if any of the Goods do not conform with the warranties Camlab shall at its option repair or replace such Goods (or the defective part) or refund the price of such goods and it shall have no further liability for a breach of the warranty in respect of such Goods.		
6.2	All orders will be subject to a delivery charge to include where applicable the cost of cases, other containers, packing material and other freight charges, etc. Unless otherwise agreed such costs will be chargeable to the purchaser.	10.1.	General – In all cases separate notification of despatch should be sent. Until the goods have arrived safely, all liabilities, including carriage, packing and insurance, remain with the Customer for any item sent to Camlab. If the Customer has insured the goods and wishes to be informed of any damage in transit Camlab must be notified and given details of their condition on despatch.	14.8	Damaged Goods and any packaging relating to it must be retained in case inspection is required. Subsequently Camlab may require the Customer to return damaged Goods in accordance with clause 10.		
7	DELIVERY DATES AND NON-DELIVERY	10.2.	The return of goods is subject to the provisions of conditions 19.3 and 19.4.	15	LIMITATION OF LIABILITY		
7.1	Where goods are supplied within the UK delivery shall take place at the Company's premises, unless otherwise agreed in writing by Camlab.	10.3.	Customers, if returning goods, may be requested to return any special packing which has been used, at the Customer's cost, (e.g. custom-made preformed styrene). Camlab reserve the right to charge for any such packing not returned.	15.1	Subject to clauses 7 and 14 the following provisions set out the entire financial liability of Camlab (including any liability for the acts or omissions of its employees, agents and subcontractors) to the Customer in respect of:		
7.2	Where goods are supplied outside the UK delivery shall take place once they are put onto rail, ship, aircraft or other transport for onward transportation to the Customer, unless otherwise agreed in writing by Camlab.	10.4.	Before goods are returned Camlab must be contacted and a Returned Goods Authorisation (RGA) number obtained which must be quoted on documentation accompanying the goods.	15.1.1	any breach of these conditions; and		
7.3	Items are offered subject to them being in stock at the date of receipt of the Customer's order. Camlab will endeavour to adhere to delivery dates however, time for delivery shall not be of the essence, and shall not be capable of being made of the essence by notice. Failure to meet quoted or expected delivery dates shall not entitle the Customer to withhold any payment which is already due to Camlab.	10.5.	In some instances, unwanted and unused goods may be returned, subject to prior agreement by Camlab. Credit will be based on the invoice price less a re-stocking charge and can only be given for goods which arrive, in Camlab's opinion, in saleable condition. The restocking charge will	15.1.2	any representation, statement or tortious act or omission including negligence arising under or in connection with the Contract.		
				15.2	All warranties, conditions and other terms implied by statute or common law (save for the conditions implied by section 12 of the Sale of Goods Act 1979) are, to the fullest extent permitted by law, excluded from the Contract.		

Additional Information

Minimum Orders

UK Orders are subject to a minimum charge of £50 as at time of publication. Non-UK orders are subject to a minimum charge of £150 (this reflects the additional administrative support required to ship goods internationally). If we do receive an order for less than this amount we will endeavor to contact you to see if you wish to increase this order to the minimum order value. If we are unable to get a response from you within 3 days we will put the order through at the minimum order value including delivery. Camlab reserve the right to change this minimum level without notice.

Confirmation Orders

When sending a hard copy by fax or mail for orders already placed verbally, please mark your copy 'Confirmation' in order to avoid duplication.

Warranty and Extended Warranty

Instrumentation lines within this catalogue carry a standard manufacturer's warranty of at least 12 months parts and labour, from date of despatch. You will automatically be advised by our Service Department once the warranty period has expired. Please email us at service@camlab.co.uk if you would like to purchase an extended warranty.

Prices

We will make every endeavor to maintain the prices shown for the lifetime of this catalogue. However, prices can vary due to influences outside of our control and we reserve the right to change prices at accordingly at any time.

After Sales Service

We are pleased to offer full warranty and maintenance

facilities for all instrumentation. Our service team would be happy to give you a personalised quotation. Computerised systems are in place to make users aware of warranty expiry dates should you wish to take out a regular maintenance contract agreement for instrumentation installed in your laboratory. All instruments are computer logged by serial number, together with full operational history, in order to monitor reliability, lifetime cost and ensure ongoing product improvements are implemented for you.

Returned Goods

We do not accept unauthorised deliveries. If products need to be returned for credit or replacement, please first contact our Customer Sales Department on 01954 233110 for a Returned Goods Authorisation Number. This will allow us to track your return efficiently and ensure that the problem is dealt with promptly. For repairs or service contract returns please phone 01954 233 130 or email us at service@camlab.co.uk

Product Statement

The illustrations, technical data and performance information in this catalogue should be correct at the time of publication. However, some specification and design changes may take place during the lifetime of this edition and we do not accept any liability for such changes and customers are advised to check specification when ordering.

Quality Policy

Camlab is committed to the provision of a total quality service to customers. We seek to achieve this through our quality system to BS EN ISO 9001:2000, coupled with the maintenance of a tradition of

high technical and commercial standards which we have built up over 55 years of serving science.

Electrical

All electrical items offered are for operation on 230V, AC 50Hz, unless otherwise stated. Other voltages are available for export and special orders. Please enquire for details.

Exports

Our export department would be pleased to submit a competitive quotation for your laboratory requirements. Please email them on sales@camlabworld.com.

Delivery

Orders for stocked lines received before 3:30pm are normally delivered next-day by courier. We are happy to arrange timed deliveries for a small additional charge. We reserve the right to make additional charges for packaging, delivery and environmental costs where required.

Conditions of Sale

All items are offered subject to Camlab's Standard Conditions of Sale which are listed in full on page 559.

WEEE Compliance

We can dispose of your obsolete equipment for you free of charge if you are purchasing replacements from Camlab. Contract disposal is also undertaken on request.

IQ/OQ/PQ

Installation, operation and performance Qualification certificates are available for most products.

Please contact us for a quotation.



Camlab Limited
Camlab House, Norman Way
Over, Cambridge
CB4 5WE

Orders

Phone: 01954 233 110 (8:30am to 5:30pm)

Fax: 01954 233 101

Email: sales@camlab.co.uk

Web: www.camlab.co.uk

Support

Technical Advice: 01954 233 120

support@camlab.co.uk

Service department: 01954 233 130

service@camlab.co.uk

Web

www.camlab.co.uk

