Contents

Laboratory Equipment

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Beakers

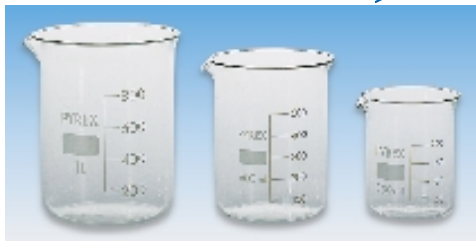### Heavy-Duty Beakers
Bibby Sterilin

- Specifically designed to offer the best mechanical strength under harsh conditions
- Reinforced rims, thicker walls and heavier bases provide beakers with increased strength and longer life
- Sizes 250ml and greater have a double graduated scale to indicate their approximate content
- All sizes have an extra large marking spot

Capacity ml	Height mm	O/D mm	Mftrs. List No.	Capacity ml	Height mm	O/D mm	Mftrs. List No.
250	90	68	1003-250	1000	156	108	1003-1L
400	110	77	1003-400	2000	179	131	1003-2L
600	124	90	1003-600	4000	250	160	1003-4L

lin88

Capacity ml	Order Code	Price Each				
		1+	12+	24+	36+	48+
250	713-2359					
400	713-2360					
600	713-2372					
1000	713-2384					
2000	713-2396					
4000	713-2402					

Low-Form Beakers
Bibby Sterilin

- Beakers with spout
- Manufactured from Pyrex® orosillicate glass to ensure high resistance to chemical attack and thermal shock
- For convenience all beakers are graduated and have large durable marking spots
- Complies with **ISO3819**

Capacity ml	Height mm	O/D mm	Mftrs. List No.	Capacity ml	Height mm	O/D mm	Mftrs. List No.
10	35	26	1000/05M	600	125	90	1000/18D
25	50	34	1000/11M	800	135	100	1000/20D
50	60	42	1000/02M	1000	145	105	1000/22D
100	70	50	1000/04D	2000	185	130	1000/28D
150	80	60	1000/06D	3000	210	150	1000/30D
250	95	70	1000/10D	5000	270	170	1000/34D
400	110	80	1001/14D				

lin89

Capacity ml	Order Code	Price Each				
		1+	10+	20+	50+	100+
10	713-2750					
25	713-2761					
50	713-2773					
100	713-2785					
150	713-2797					
250	713-2803					
400	713-2815					
600	713-2827					
800	713-2839					
1000	713-2840					
2000	713-2852					
3000	713-2864					
5000	713-2876					

Stirring Rods

- Fused end, glass stirring rods
- 200mm in length, ∅ 8mm
- Supplied in packs of 10

lin183

10 Per Pack Order Code	Price Each			
	1+	5+	15+	20+
724-0284				

Flasks

Heavy-Duty Conical Flasks
Erlenmeyer
Bibby Sterilin

- Specifically designed to offer the best mechanical strength under harsh conditions, including washing operations
- Reinforced rims provide flasks with increased strength and longer life
- Approximate graduations are in durable white enamel
- Extra-large marking spot

Capacity ml	Height mm	ASTM Stopper	B.S. Stopper Size	Mftrs. List No.
250	132	6	27	4980-250
500	176	7	31	4980-500
1000	216	9	37	4980-1L
2000	268	10	43	4980-2L

lin96

Capacity ml	Mftrs. List No.	Order Code	Price Each				
			1+	12+	24+	48+	96+
250	4980-250	713-4770					
500	4890-500	713-4782					
1000	4980-IL	713-4794					
2000	4980-2L	713-4800					

Wide-Neck Conical Flasks
Bibby Sterilin

- Similar to 1130 series but with wider mouth
- For convenience these flasks are graduated to slow the approximate capacity
- All have a clear marking spot

lin93

Capacity ml	Mftrs. List No.	Order Code	Price Each				
			1+	10+	20+	50+	100+
100	1140/04D	713-4228					
250	1140/08D	713-4230					
500	1140/10D	713-4241					

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Laboratory Equipment

Conical Flask With Screw Cap

Bibby Sterilin

- Pyrex® glass
- Ideal for the storage of culture specimens and media
- Phenolic screw caps fitted with a rubber disc and faced with PTFE, are resistant to repeated dry heat and steam sterilisation cycles (121°C for 2 hours)

Note: Do not autoclave with a tightly screwed cap

Capacity ml	Body ⌀ mm	Flask Height mm	Cap Size	Mftrs. List No.
100	64	105	30	1137/03D
250	85	140	42	1137/06M
500	105	170	42	1137/08D

lin103

Capacity ml	Mftrs. List No.	Order Code	1+	10+	20+	50+	100+
100	1137/03D	713-5774					
250	1137/06M	713-5786					
500	1137/08D	713-5798					

Measuring Cylinders

Measuring Cylinders
volac

- Soda-lime glass **BS 604**
- Hexagonal plastic bumper

lin134

2 Per Pack Capacity ml	Graduations ml	Order Code	1+	5+	10+	20+
5	0.1	714-6670				
10	0.2	714-6681				
25	0.5	714-6693				
50	1.0	714-6700				
100	1.0	714-6711				
250	2.0	714-6723				
500	5.0	714-6735				
1000	10.0	714-6747				

Pipotters

Bulb Pipettes
Class B volac

- **BS 1583** Class B glass
- Soda-lime glass
- Single mark

lin77

Order Multiple=2 Capacity ml	Order Code	2+	6+	10+	50+
1	713-0107				
2	713-0119				
5	713-0120				
10	713-0132				
20	713-0144				
25	713-0156				
50	713-0168				
100	713-0170				

Bulb Pipettes
Class A volac

- **BS 1583** Class A glass
- Soda-lime glass
- Single mark

lin78

Order Multiple=2 Capacity ml	Order Code	2+	6+	10+	50+
1	713-0247				
2	713-0259				
5	713-0260				
10	713-0272				
20	713-0284				
25	713-0296				
50	713-0302				
100	713-0314				

Graduated Pipettes, Type 3
volac

- Calibrated to Class B as set by **BS 700**
- Faster flow rate
- Delivers from zero top down to jet

lin79

Capacity ml	Graduations ml	Order Code	1+	5+	10+	50+
1	0.01	713-0375				
2	0.02	713-0387				
5	0.05	713-0399				
10	0.1	713-0405				
25	0.2	713-0417				
25	0.1	713-0429				

Graduated Pipettes, Type 4
Class B volac

- Calibrated for blowout delivery
- Zero at top

lin80

Capacity ml	Graduations ml	Order Code	1+	5+	10+	50+
1	0.01	713-0533				
2	0.02	713-0545				
5	0.05	713-0557				
10	0.1	713-0569				
25	0.1	713-0570				

Continued

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Pipetters — continued

Dropper Teats

- Red latex dropper teats for pipettes
- Resistant to many chemicals
- Controlled by finger and thumb pressure for retraction and dispersal of fluids
- Supplied in packs of 100

lin174

100 Per Pack		Price Each				
Capacity ml	Order Code	1+	5+	10+	20+	50+
1.5	723-7054					
2.0	723-7066					
2.75	723-7078					
5.0	723-7080					

Burettes

Burettes Straight PTFE, Removable Stopcock
Class B

volac

- BS846 Class B
- Soda-lime glass

Interchangeable, single PTFE stopcock attached with self-locking tapered nuts and glass jets.

lin72

Capacity ml	Graduations ml	Order Code	Price Each			
			1+	5+	10+	50+
1	0.1	712-9543				
2	0.02	712-9555				
5	0.02	712-9567				
10	0.02	712-9579				
10	0.05	712-9580				
10	0.1	712-9592				
25	0.05	712-9609				
25	0.1	712-9610				
50	0.1	712-9622				
100	0.2	712-9634				

Bottles

Reagent Bottles
Glass Stopper

volac

lin69

Colour	Capacity ml	Order Code	Price Each			
			1+	10+	20+	50+
Clear	30	712-4089		.		
Clear	50	712-4090			.	
Clear	100	712-4107				.
Clear	250	712-4119				
Clear	500	712-4120				
Clear	1000	712-4132				
Amber	50	712-4144				
Amber	100	712-4156				
Amber	250	712-4168				
Amber	500	712-4170				.
Amber	1000	712-4181				

Polystop Dispensing Bottles

volac

- Interchangeable plastic stopper
- Graduated glass pipette
- Vinyl bulb

lin70

Colour	Bottle Capacity ml	Dropper Capacity ml	Order Code	Price Each			
				1+	10+	20+	50+
Clear	100	1	712-4636				
Clear	250	8	712-4648				
Clear	500	10	712-4650				
Amber	100	1	712-4661			.	
Amber	250	8	712-4673				
Amber	500	10	712-4685				

Funnels

Filter Funnel

Bibby Sterilin

- Conical, plain, short stem
- Designed with an accurate 60 bowl angle to permit precise fitting of filter paper
- All funnels are manufactured with a beaded rim for mechanical strength and resistance to chipping

Top O/∅ mm	Stem O/∅ mm	Stem Length mm	Overall Height mm	Mftrs. List No.
55	8	55	103	2140/03M
80	8	80	135	2140/06M
100	10	100	175	2140/10M

lin98

Mftrs. List No.	Order Code	Price Each				
		1+	20+	40+	60+	120+
2140/03M	713-4952					
2140/06M	713-4964					
2140/10M	713-4976					

Filter Paper

- Thickness of 0.39mm
- Retention size of 10µm
- Filtration speed of 72 seconds
- Grammage of 90g/m²
- Available in two sizes, 90mm and 150mm ∅
- Supplied in packs of 100

lin185

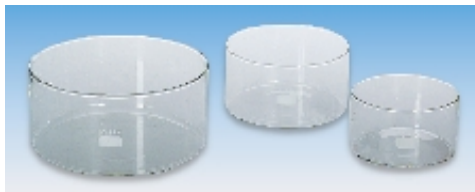| 100 Per Pack		Price Each			
Size	Order Code	1+	5+	15+	20+
90mm	724-0302				
150mm	724-0314				.

Dishes

Petri Dish

Bibby Sterilin

- Pyrex®
- Machine formed to ensure even wall thickness and consistent optical performance
- Withstands repeated sterilisation
- Chemically resistant to most materials encountered in the laboratory

Size mm	Base O/∅ mm	Base Height mm	Cover I/∅ mm	Cover Height mm	Mftrs. List No.
60 20	54.5	20	55	15.0	1480/02D
100 20	94.0	20	95	11.5	1480/08D

lin100

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Laboratory Equipment

Mftrs. List No.	Order Code	Price Each				
		1+	10+	20+	50+	100+
1480/02D	**713-5464**					
1480/08D	**713-5476**					

Crystallising Dish

> Bibby Sterilin

- Pyrex® orosilicate glass
- Chemically resistant
- Suitable for use up to 400°C

Capacity ml	∅ mm	Height mm	Mftrs. List No.	Order Code
500	115	65	1470/10D	713-4678
900	140	75	1470/12D	713-4680
2000	190	90	1470/16D	713-4691

lin95

Capacity ml	Order Code	Price Each				
		1+	10+	20+	50+	100+
500	**713-4678**					
900	**713-4680**					
2000	**713-4691**					

Test Tubes
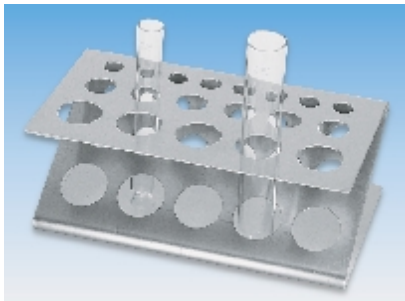
Medium-Wall Test Tubes

> Bibby Sterilin

- Manufactured from Pyrex® borosilicate glass
- Offer high resistance to thermal shock and chemical attack
- Conforms to **BS 3218**

O ∅ Length mm		Wall Thickness mm	Mftrs. List No.
16	100	1.2	1620/09M
16	125	1.2	1620/10M
16	125	1.2	1620/12M
18	150	1.2	1620/16M
24	150	1.2	1620/20M

lin105

100 Per pack

O/∅ Length mm		Mftrs. List No.	Order Code	Price Per Pack			
				1+	5+	10+	25+
16	100	1620/09M	**713-5865**				
16	125	1620/10M	**713-5877**				
16	125	1620/12M	**713-5889**				
18	150	1620/16M	**713-5890**				
24	150	1620/20M	**713-5919**				

Z Rack-Test Tube Rack
Aluminium

- Aluminium test tube rack
- Three different hole diameter
- Stackable Z-pattern

lin123

Mftrs. List No.	Order Code	Price Each				
		1+	5+	10+	50+	100+
877/A	**714-0319**				.	

Brushes
Beaker, Bunsen Burner and Test Tube

Beaker

Test Tube

Bunsen Burner

- **Beaker Brush:** Black bristles forming a head spanning 80 50mm on a long wooden handle
- **Test Tube Brush:** White bristles with cotton yarn tip for tubes with a minimum dia. of 12mm
- **Bunsen Burner:** Brass wire spanning 9 50mm on a 230mm long handle

lin182

Brush Type	Pack Qty	Order Code	Price Each			
			1+	5+	15+	20+
Bunsen Burner	5	**724-0259**				
Beaker	1	**724-0260**				
Test Tube	10	**724-0272**				

Stoppers

Stoppers, Red Natural Rubber
Solid

LEY

- Solid red rubber stoppers conforming to **BS2775**
- **Assorted pack contains the following:**
- 5 of each of sizes: 7, 8, 9, 10, 11, 12, 13, 15, 17, 19, 21 and 23
- 2 of each of sizes: 25, 27, 29, 31, 33 and 35

lin163

Bottom ∅	Top ∅	Length mm	Pack Qty	Order Code	Price Per Pack				
					1+	5+	10+	20+	50+
5	7	16	50	**723-5458**		.			
6	8	16	50	**723-5460**					.
7	9	16	50	**723-5471**					
8	10.5	20	20	**723-5483**					
9	11.5	20	20	**723-5495**					.
10	12.5	20	20	**723-5501**	.				
11	14	24	10	**723-5513**					
13	16	24	10	**723-5525**					
15	18	24	10	**723-5537**					
17	20.3	26	10	**723-5549**					
19	22.5	28	10	**723-5550**					
21	24.5	28	10	**723-5562**					
23	26.5	28	10	**723-5574**					
25	28.5	28	5	**723-5586**					
27	31	32	5	**723-5598**					
29	33	32	5	**723-5604**					
31	36	35	5	**723-5616**				.	
33	38.5	38.5	5	**723-5628**					
35	40.5	38.5	1	**723-5630**					
37	42.5	38.5	1	**723-5641**				.	
39	44.5	38.5	1	**723-5653**					
41	47	42	1	**723-5665**					
43	49	42	1	**723-5677**		.			
45	51	42	1	**723-5689**					
49	55	42	1	**723-5690**					
53	59.5	45.5	1	**723-5707**					.
57	64	49	1	**723-5719**					
62	69	49	1	**723-5720**					
67	74	49	1	**723-5732**					
71	78	49	1	**723-5744**					
75	85	54	1	**723-5756**					
79	89	54	1	**723-5768**					
86	96	54	1	**723-5770**					
92	102	54	1	**723-5781**					
99	109	54	1	**723-5793**					
105	116.5	63.5	1	**723-5800**					
Assorted Pack			67	**723-5811**					

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Laboratory Equipment

Laboratory Equipment

Stoppers — continued

Stoppers, Red Natural Rubber
1 Hole

LEY

- 1 hole red rubber stoppers conforming to **BS2775**
Assorted pack contains the following:
- 5 of each of sizes: 7, 8, 9, 10, 11, 12, 13, 15, 17, 19, 21 and 23
- 2 of each of sizes: 25, 27, 29, 31, 33 and 35

lin164

Bottom ∅	Top ∅	Length mm	Pack Qty	Order Code	1+	5+	Price Per Pack 10+	20+	50+
11	14	24	10	**723-6062**					
13	16	24	10	**723-6074**					
15	18	24	10	**723-6086**					
17	20.3	26	10	**723-6098**					
19	22.5	28	10	**723-6104**					
21	24.5	28	10	**723-6116**					
23	26.5	28	10	**723-6128**					
25	28.5	28	5	**723-6130**					
27	31	32	5	**723-5604**					
31	36	35	5	**723-6141**					
29	33	32	5	**723-6153**					
31	36	35	5	**723-6165**					
33	38.5	38.5	5	**723-6177**					
37	42.5	38.5	1	**723-6189**					
41	47	42	1	**723-6190**					
Assorted Pack			67	**723-6207**					

Stoppers, Red Natural Rubber
2 Hole

LEY

- 2 hole red rubber stoppers conforming to **BS2775**
Assorted pack contains the following:
- 5 of each of sizes: 15, 17, 19, 21, 23, 25, 27 and 29
- 2 of each of sizes: 31, 33, 35 and 37

lin165

Bottom ∅	Top ∅	Length mm	Pack Qty	Order Code	1+	5+	Price Per Pack 10+	20+	50+
21	25.5	28	10	**723-5963**					
23	26.5	28	10	**723-5975**					
25	28.5	28	5	**723-5987**					
27	31	32	5	**723-5999**					
29	33	32	5	**723-6001**					
31	36	35	5	**723-6013**					
33	38.5	38.5	5	**723-6025**					
37	42.5	38.5	1	**723-6037**					
41	47	42	1	**723-6049**					
Assorted Pack			67	**723-6050**					

Beakers

Polypropylene Beakers

Azlon

- Straight-sided beakers in Azlon 'square' design
- Comply with **BS5404: Part1: 1976**
- Good chemical resistance
- Withstand temperature resistance up to 135°C
- Ideal for general laboratory use

Graduations and an indication of material and maximum heat resistance are clearly printed using indelible solvent resistant ink.

Capacity ml	Sub-Divisions ml	O/∅ mm	I/∅ mm	Height mm	Mftrs. List No.
50	5	51	49	51	BDA218P
100	5	62	60	62	BDA224P
250	10	82	80	82	BDA230P
400	20	94	92	95	BDA234P
500	20	100	96	101	BDA236P
600	20	106	101	107	BDA238P
1000	20	127	123	126	BDA240P
2000	50	158	154	160	BDA242P

lin110

Capacity ml	Mftrs. List No.	Order Code	1+	10+	Price Each 20+	50+	100+
50	BDA218P	**713-7096**					
100	BDA224P	**713-7102**					
250	BDA230P	**713-7114**					
400	BDA234P	**713-7126**					
500	BDA236P	**713-7138**					
600	BDA238P	**713-7140**					
1000	BDA240P	**713-7151**					
2000	BDA242P	**713-7163**					

Bottles

HDPE Bottles
Narrow Neck

Azlon

- Translucent, rigid and leak-proof with natural polypropylene screw cap
- Ideal for general liquid storage and sampling
- All sizes feature S.P.I recycling codes on their base

Capacity ml	Height mm	O/∅ mm	Neck I/∅ mm	Mftrs. List No.
125	105	50	21	BNH0125PN
250	143	60	21	BNH0250P
500	165	75	21	BNH0500P

lin111

Capacity ml	Order Code	1+	10+	Price Each 20+	50+	100+
125	**713-7230**					
250	**713-7242**					
500	**713-7254**					

LDPE Bottles
Narrow Neck

Azlon

- Translucent, flexible and leak-proof with natural polypropylene screw cap
- Ideal for general liquid storage and sampling
- All sizes feature S.P.I. recycling codes on their base

Capacity ml	Height mm	O/∅ mm	Neck I/∅ mm	Mftrs. List No.
60	80	39	16	BNL0060PN
125	105	50	21	BNL0125PN
150	118	50	21	BNL0150PN
250	143	60	21	BNL0250P
500	165	75	21	BNL0550P
1000	202	90	21	BNL1000P

lin112

10 Per Pack Capacity ml	Order Code	1+	5+	Price Each 10+	50+	100+
60	**713-7527**					
125	**713-7539**					
150	**713-7540**					
250	**713-7552**					
500	**713-7564**					
1000	**713-7576**					

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Laboratory Equipment

Prices are in Singapore Dollars and exclusive of GST

Polypropylene Bottles
Narrow Neck

Azlon

- Translucent, rigid, leak-proof and autoclavable
- Excellent general chemical resistance
- Ideal for liquid storage, media preparation, etc.
- All sizes feature S.P.I. recycling codes on their base

Note: When autoclaving always ensure caps are loosened or removed to prevent accidental implosion

Capacity ml	Height mm	O/⌀ mm	Neck I/⌀ mm	Mftrs. List No.
125	105	50	21	BNP0125PN
150	118	50	21	BNP0150PN
250	143	60	21	BNP0250P
500	165	75	21	BNP0500P
1000	202	90	21	BNP100P

lin113

Capacity ml	Order Code	1+	10+	20+	50+	100+
125	713-7692					
150	713-7709					
250	713-7710					
500	713-7722					
1000	713-7734					

HDPE Bottles
Wide Neck

Azlon

- Translucent, rigid and leak-proof
- High-quality, heavy-duty bottles
- Easy-to-fill wide necks with non-stick, natural polypropylene, screw caps
- Excellent general chemical resistance
- Ideal for storage and sampling of liquids and solids

All sizes feature S.P.I. recycling codes on their base.

Capacity ml	Height mm	O/⌀ mm	Neck I/⌀ mm	Mftrs. List No.
60	84	39	26	BWH0060PN
250	145	60	35	BWH0250PN
500	165	75	45	BWH0550PN
1000	209	90	54	BWH1000PN
2000	245	120	54	BWH2000P

lin114

Pack Qty	Capacity ml	Order Code	1+	10+	20+	50+	100+
10	60	713-8283					
10	145	713-8295					
10	165	713-8301					
5	209	713-8313					
5	245	713-8325					

Polypropylene Bottles
Wide Neck

Azlon

- High-quality, heavy-duty bottles
- Translucent, rigid, leak-proof and autoclaving
- Excellent general chemical resistance
- Feature easy-to-fill wide necks with non-stick, natural polypropylene, screw caps
- Ideal for storage and sampling of liquids or solids and media preparation

All sizes feature S.P.I. recycling codes on their base.

Note: When autoclavng always ensure caps are loosened or removed to prevent accidental implosion

Capacity ml	Height mm	O/⌀ mm	Neck I/⌀ mm	Mftrs. List No.
60	84	39	26	BWP0060PN
150	114	50	32	BLP0150P
250	145	60	35	BWP0250P
500	165	75	45	BWP0500P
1000	209	90	54	BWP1000P
2000	245	120	54	BWP2000P

lin115

Capacity ml	Order Code	1+	10+	20+	50+	100+
60	713-8337					
150	713-8349					
250	713-8350					
500	713-8362					
1000	713-8374					
2000	713-8386					

Solvent-Venting Wash Bottles

Azlon

- High-quality washbottles feature a unique patent (applied) for valve mechanism which automatically vents volatile
- Solvent vapour eliminating the common, irritating and potentially hazardous problem of solvent drip
- Easy-to-fill, wide neck Azlon design
- Custom/DIY versions features printed write-on areas which allows you to create your suitable solvent label
- Complete with adhesive orange and black hazard symbols

Chemical resistance information is available on request. If you have any doubt as to the suitability of a washbottle for use with a particular solvent, please contact our Technical Department.

Capacity ml	Printing/Label	Closure Colour	Mftrs. List No.
500	Custom/DIY	White	WGW002VT
500	Acetone	Red	WGW537VT

lin131

	Order Code	1+	5+	10+	50+	100+
Custom Label	714-4301					
Acetone	714-4428					

Wide-Mouth Wash Bottle

Azlon

- High-quality wash bottles supplied in flexible, natural polyethylene
- Fitted with a range of colour coded, leak-proof, wide neck, polypropylene spout enclosures
- Wide neck offers safety benefits due to easy spill-free filling

500ml Capacity

lin132

Closure Colour	Mftrs. List No.	Order Code	1+	5+	10+	50+	100+
Blue	WGW235P	714-4416					
White	WGW236P	714-4430					.

28

933

Laboratory Equipment

Containers

Jugs
Polypropylene

Azlon

- Strong, stable and withstands up to 135°C
- Autoclaveable
- Well-formed pouring spouts and handles
- Clearly-defined green graduations and temperature resistance markings

Capacity ml	Sub-Divisions ml	Height mm	O/∅ mm	Mftrs. List No.
250	25	107	77	JDG130P
2000	100	198	145	JDG142P

lin125

Capacity ml	Order Code	1+	5+	Price Each 10+	50+	100+
250	**714-3047**					
2000	**714-3059**					

Measuring Cylinders

Measuring Cylinder
Printed Graduations

Azlon

- Full range of **ISO6706** graduated cylinders in ultra clear PP
- Remain in tolerance after autoclaving at 121°C
- Enhanced pin sharp blue printed graduations
- Stable hexagonal bases with non-slip anti-suction feature
- Very easy to read as liquids have virtually no miniscus in plastic cylinders

Capacity ml	Sub-Division ml	Height mm	O.D.	Tolerance ±ml	Mftrs. List No.
10	0.2	140	14	0.2	CBP0010P
25	0.5	170	20	0.5	CBP0025P
50	1	200	26	1	CBP0050P
100	1	250	31	1	CBP0100P
250	2	315	42	2	CBP0250P
500	5	360	55	5	CBP0500P
1000	10	440	66	10	CBP1000P
2000	20	535	83	20	CBP2000P

lin178

Capacity ml	Mftrs. List No.	Order Code	1+	Price Each 10+	20+	50+
10	CPB0010P	**723-9786**				
25	CBP0025P	**723-9798**				
50	CPB0050P	**723-9804**				
100	CPB0100P	**723-9816**				
250	CPB0250P	**723-9828**				
500	CPB0500P	**723-9830**				
1000	CPB1000P	**723-9841**				
2000	CPB2000P	**723-9853**				

Measuring Cylinders
Polypropylene

Azlon

- Top-quality, clear polypropylene measuring cylinders to **ISO6706**
- Moulded graduations
- Feature non-slide/anti-suction hexagonal bases, precision pouring spouts and easy-to-read moulded graduations
- Autoclavable to 120°C: remain in tolerance after repeated autoclaving
- All sizes feature S.P.I. recycling code imprints and are date stamped for full traceablity

Capacity ml	Sub-Division ml	Height mm	O.D.	Tolerance ±ml	Mftrs. List No.
10	0.2	140	14	0.2	CP0010P
25	0.5	170	20	0.5	CP0025P
50	1	200	26	1	CP0050P
100	1	250	31	1	CP0100P
250	2	315	42	2	CP0250P
500	5	360	55	5	CP0500P

lin119

Capacity ml	Order Code	1+	Price Each 10+	20+	50+	100+
10	**713-8957**					
25	**713-8969**					
50	**713-8970**					
100	**713-8982**					
250	**713-8994**					
500	**713-9007**					

Funnels

Funnels

Azlon

Polyethylene, Industrial Funnel
- Unbreakable, rigid industrial funnel with straight-sided upper position to prevent spillage

Polypropylene, Powder Funnel
- Lightweight and unbreakable with parallel stem which minimises 'bridging' of powder

Type	Overall Height mm	Top I/∅ mm	Stem O/D mm	Mftrs. List No.
Polypropylene, Powder Funnel	69	65	18	FCW202
Polyethylene, Industrial Funnel	80	80	9	FCW102

lin120

Type	Pk Qty	Order Code	1+	Price Per Pack 5+	10+	50+
Powder Funnel	5	**713-9238**				
Industrial Funnel	10	**713-9214**				

Scoops

Measuring Scoops
Polypropylene

Azlon

- Made from opaque white polypropylene
- Flat top for levelling off powders
- Flat base enables scoops to stand horizontally
- Capacity clearly moulded on each size

Capacity ml	Overall Length mm	Mftrs. List No.
2	60	SWL002
25	137	SWL012
50	160	SWL018
100	198	SWL024

lin127

Capacity ml	Order Code	1+	5+	Price Each 10+	50+	100+
2	**714-3904**					
25	**714-3916**					
50	**714-3928**					
100	**714-3930**					

Spatula

Azlon

- Strong, tapered polypropylene spatulas with chamfered ends
- Retain original shape after flexing
- Virtually unbreakable
- Good chemical and heat resistance
- Being autoclavable, can be used as tongue depressors

lin128

Length mm	Mftrs. List No.	Order Code	1+	Price Each 10+	20+	50+	100+
152	SWY062	**714-3990**					

Pipettes

Disposable Plastic Transfer Pipettes

volac

Capacity ml	Graduation ml	Mftrs. List No.	Order Code
3.5	1 2.5	D511/00P	713-1550
3.5	3 0.5	D503/00P	713-1562

lin86

500 Per Pack Order Code	1+	Price Each 5+	10+	50+
713-1550				
713-1562				

Pipettors

Variable-Volume Pipetters, Microlitre

⟨volac⟩

● Pipetters: Variable volume, digitally adjustable, PTFE seals, colour coded

Pipetters tips D590 and D592 are multi-fit tips

Pipetters Model	Volume Range μ	Gradients μl	Colour Code	Tested at μl	Accuracy within +%	Precision within +%
R680/A	5 to 50	0,10	Green	5	2.0	1.5
				10	1.5	1.0
				30	0.8	0.5
				50	0.5	0.3
R680/D	50 to 500	1.00	Brown	50	1.5	1.0
				100	1.0	0.6
				200	1.0	0.6
				300	0.5	0.3
				500	0.4	0.3
R680/E	100 to 1000	2.00	Red	100	1.0	1.0
				200	1.0	0.6
				600	0.5	0.3
				1000	0.4	0.3
R680/F	500 to 5000	10.00	Yellow	500	1.0	0.8
				1000	0.6	0.5
				3000	0.5	0.4
				5000	0.4	0.4
R680/G	1000 to 10,000	20.00	Orange	1000	0.8	0.9
				3000	0.7	0.6
				7000	0.6	0.5
				10000	0.5	0.5

Pippeter Tips	Model	Colour	Capacity μl
	D590	Yellow	200
	D592	Blue	1000
	D893	White	5000
	D894	Blue	1000

lin87

Pipetters	Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+
	R680/A	713-1896				
	R680/D	713-1914				
	R680/E	713-1938				
	R680/F	713-1951				
	R680/G	713-1975				

Pipetter Tips Pack Qty		Order Code	Price Per Pack 1+	5+	10+	50+
1000	D590	714-7594				
1000	D592	714-7600				
500	D893	714-7612				
400	D894	714-7624				

Glass Filled Thermometers

Glass Thermometers

● Toughened stirring bulbs
● Vertical figuring
● Non-roll fitting
● Ideal for the measurement of fluids
● Brass protective cases also available

Length	Filling	Colour	Temperature Range	Mftrs. List No.	Order Code
305	Mercury	Yellow	-10°C to 50°C	41/40/10	708-1789
305	Mercury	Yellow	-10°C to 110°C	41/403/0	708-1790
305	Mercury	Yellow	-10°C to 250°C	41/410/0	708-1807
305	Mercury	Yellow	-10°C to 360°C	41/414/0	708-1819
305	Red-white spirit	White	-10°C to 50°C	44/401/0	708-1820
305	Red-white spirit	White	-10°C to 110°C	44/403/0	708-1832
305	Red-white spirit	White	-10°C to 150°C	44/406/0	708-1844
155	Mercury	Yellow	-5°C to 105°C	41/430/0	708-1856
155	Red-white spirit	White	-5°C to 105°C	41/430/0	708-1868
155	Green-white spirit	White	-5°C to 105°C	44/430/5	708-1870
205	Green-white spirit	White	-10°C to 110°C	44/423/5	708-1881
305	Green-white spirit	White	-10°C to 110°C	44/403/5	708-1893
305	Protective Case	Brass	—	47/432/0	708-1900
155	Protective Case	Brass	—	47/732/0	708-1991

lin24

Thermometers Mftrs. List No.	Order Code	Price Each 1+	5+	25+	50+	100+
41/401/0	708-1789					
41/403/0	708-1790					
41/410/0	708-1807					
41/414/0	708-1819					
44/401/0	708-1820					
44/403/0	708-1832					
44/406/0	708-1844					
41/430/0	708-1856					
44/430/0	708-1868					
44/430/5	708-1870					
44/423/5	708-1881					
44/403/5	708-1893					
Brass Case						
47/432/0	708-1900					
47/732/0	708-1911					

Clamps

Bossheads

● Cast alloy with blue plastic headed, nickel-plated screws
● For use with rods up to 16mm ⌀

Mftrs. List No. 2005/1 = 706-9080, Z0204 = 706-9091

lin1

	Order Code	Price Each 1+	5+	10+	50+	100+	250+
Natural Bosshead	706-9080						
Bosshead	706-9091						

Bosshead

● Constructed in anodised aluminium
● Stainless steel socket screws
● Supplied with allen key
● Designed for 18mm ⌀ vertical rods and 13mm ⌀ horizontal rods

lin8

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+	100+	250+
2009	707-6230						

Utility Clamp

● Nickel-plated die-cast alloy
● Actuated by nickel-plated brass pummels with a blue plastic-headed, nickel-plated, twin screw
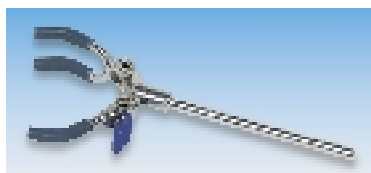● Rubber-covered jaws
● Blue acrylic bosshead

lin6

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+	100+	250+
2029	706-9145						

28

935

Laboratory Equipment

Clamps — continued

Three-Prong Clamp

- Nickel-plated die-cast alloy
- Actuated by nickel-plated brass pummels with a blue plastic-headed, nickel-plated, twin screw
- Rubber-covered jaws
- Blue acrylic bosshead

lin6

Mftrs. List No.	Order Code	Price Each					
		1+	5+	10+	50+	100+	250+
202/1	**706-9110**						

Retort Clamp

- Die-cast alloy with aluminium shaft
- Actuated by nickel plated brass pummels with blue plastic headed, nickel plated twin screw
- Accepts articles up to 85mm ⌀
- Cork-lined jaws

lin2

Mftrs. List No.	Order Code	Price Each					
		1+	5+	10+	50+	100+	250+
Z0104	**706-9108**						

Reaction Vessel Clamp

- Constructed in alloy and zinc-plated steel
- Jaws formed to a radius that firmly fits to the neck of the quickfit reaction vessel
- Actuated by nickel-plated pummels with a twinscrew and stainless steel pivot pin
- Provided with two extension rods for vessels up to 5 litres and 20 litre capacity

lin4

Mftrs. List No.	Order Code	Price Each					
		1+	5+	10+	50+	100+	250+
2124	**706-9121**						

Beaker Clamp

- Constructed in alloy and stainless steel
- One set of jaws pivoted for accurate alignment
- Suitable for beakers up to 5 litres capacity
- Heat-resistant sleeves

lin5

Mftrs. List No.	Order Code	Price Each					
		1+	5+	10+	50+	100+	250+
2123/1	**706-9133**						

Scaffolding

Scaffold Foot

- Die-cast aluminium
- Three countersink holes for securing foot
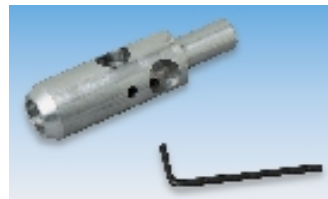- Allen key provided
- Suitable for 13mm ⌀ rods

lin20

Mftrs. List No.	Order Code	Price Each					
		1+	5+	10+	50+	100+	250+
2117	**707-8080**						

Scaffold Foot Adaptor

- Accepts up to three 13mm ⌀ rods at right angles

lin21

Mftrs. List No.	Order Code	Price Each					
		1+	5+	10+	50+	100+	250+
2119	**707-8810**						

Scaffold Connectors

- Single connector 2111 for mounting to instrument cases, control panels, screens, etc.
- 2-way connector 2114 for fixing 2 rods or tubes at right angles
- 3-way connector 2115 for fixing 3 rods or tubes at right angles
- 2-way swivel connector 2112 for holding 2 rods at any angle

lin22

Mftrs. List No.	Order Code	Price Each					
		1+	5+	10+	50+	100+	250+
2111	**707-8821**						
2114	**707-8833**						
2115	**707-8845**						
2112	**707-8857**						

Laboratory Scaffold Rods

- Aluminium alloy, 13mm ⌀ laboratory rods
- Four different lengths

lin23

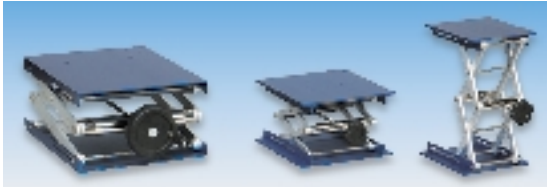| Length mm	Mftrs. List No.	Order Code	Price Each					
			1+	5+	10+	50+	100+	250+
1800	200/1	**707-8950**						
1200	200/3	**707-8961**						
900	200/4	**707-8973**						
600	200/5	**707-8985**						

Stands

Tripod and Gauze

Tripod
- Zinc-plated stainless steel

Gauze
- Flat, square, galvanised-iron mesh with ceramic centre: 125mm square

lin10

	Mftrs. List No.	Order Code	Price Each					
			1+	5+	10+	50+	100+	250+
Tripod	3001/1	**707-6393**						
Gauze	9072	**707-6757**						.

28

936

Laboratory Equipment

Labjacks

● Manufactured from stainless steel and anodised aluminum plates

Plate Dimensions mm	Max Height mm	Closed Height mm	Max. Load kg	Gross Weight kg	Mftrs. List No.	Order Code
150 150	290	60	60	0.95	2035	707-6769
200 200	290	57	80	2.15	2036	707-6770
320 260	470	128	90	7.50	2042	707-6782

lin11

			Price Each			
Order Code	1+	5+	10+	50+	100+	250+
707-6769						
707-6770						
707-6782						

Retort Stand

● Manufactured in steel
● Rubber feet
● Blue acrylic finish
● Zinc-plated steel rod

Base Dimensions mm	Weight kg	Rod ∅ mm	Length mm
200/125	1.25	12.5	600

lin9

	Mftrs. List No.	Order Code	1+	5+	10+	50+	100+	250+
				Price Each				
Base	3107/2	707-6277						
Rod	3108/21	707-6289						

Burners

Bunsen Burner

● Die-cast base with chemically-resistant acrylic base
● Tested for flame quality and leakage
● Nickel-plated finish
● Natural gas

Overall Height mm	Outside ∅ of Outlet mm	Inside ∅ of Outlet mm
145	9.25	9.00

lin12

Mftrs. List No.	Order Code	1+	5+	10+	50+	100+	250+
				Price Each			
4006/2	707-6897						

Gas Cartridge Burner
Meker Pattern

● Designed for use with Primus Butane/Propane mix gas cartridges
● Burner can achieve temperatures in excess of 1000°C
● Burner can be detached an re-attached as often as needed
● Constructed of brass with a plated steel perforated head
● When use with the cartridge the burner fits the standard 8" (200mm) tripod
● Typical burning time of the cartridge is 2¾ hours

*lin159

				Price Each		
	Order Code	1+	3+	6+	12+	24+
Burner with 220gm cartridge	722-9835					
Replacement gas cartridge	722-9847					

Tubing

Black Neoprene Bunsen Burner Tube
Reinforced Ends

● Purpose made bunsen burner tube
● Vulcanised joint at ends
● Available in 4 different lengths

lin173

			Price Per Length			
Length	Order Code	1+	5+	10+	20+	50+
450	723-7017					
600	723-7029					
750	723-7030					
900	723-7042					

Bunsen Burner Tubing
Red Natural

● Suitable for pressures up to 1 bar
● Heavy wall tubes are ideal for vacuum work
● Suitable for most acids and alkalis
● Temperature range of -40°C to 70°C
● Retains flexibility at lower temperatures
● Not suitable for use with oils and hydrocarbons
● Supplied in lengths of 10 metres
● Conforms to **BS2775**

lin169

10m Per Length		External		Price Per Length				
Internal ∅	Wall	∅	Order Code	1+	5+	10+	20+	50+
3	0.75	4.5	723-6610					
5	1.5	8	723-6621					
6.5	1.5	8	723-6633					
8	2	12	723-6645					
10	2	14	723-6657					
12.5	2.25	17	723-6669					
16	3.25	22.5	723-6670					
20	3.25	26.5	723-6682					
25	3.25	32.5	723-6694					
Heavy Wall								
3	3	9	723-6700					
5	3	12	723-6712					
6.5	5	16.5	723-6724					
8	6	20	723-6736					
10	7	24	723-6748					
12.5	8.5	29.5	723-6750					

Bunsen Burner Tubing
Black Neoprane

● Better resistance to ozone, heat and petroleum based oils
● Temperature range of -300°C to 100°C
● Supplied in lengths of 10 metres

lin170

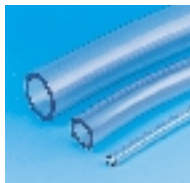| 10m Per Length		External		Price Per Length				
Internal ∅	Wall	∅	Order Code	1+	5+	10+	20+	50+
3	0.75	4.5	723-6761					
5	1.5	8	723-6773					
6.5	1.5	8	723-6785					
8	2	12	723-6797					
10	2	14	723-6803					

Bunsen Burner Tubing
Translucent Silicone

● Translucent silicone tubing has outstanding temperature resistance
● Temperature range of -60°C to 200°C
● Withstands repeated autoclaving
● Excellent electrical properties and high resistance to many chemicals including ozone
● Non toxic, biologically inert, FDA and NWC approved for food, drug and medical use
● Supplied in lengths of 10 metres

lin171

10m Per Length		External		Price Per Length				
Internal ∅	Wall	∅	Order Code	1+	5+	10+	20+	50+
3	0.75	4.5	723-6815					
5	1.5	8	723-6827					
6.5	1.5	8	723-6839					
8	2	12	723-6840					
10	2	14	723-6852					

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937

Laboratory Equipment

Tubing — continued

Clear PVC Tubing

LEY

- Suitable for use with many chemicals
- Sterilisable up to 125°C
- Sizes comply to **BS2772**
- Translucent, low-toxic to **BS2571 Class 3 Type G**
- Available with or without reinforcement
- Supplied in lengths of 30 metres

lin172

30m Per Length		External		Price Per Length				
Internal ⌀	Wall	⌀	Order Code	1+	5+	10+	20+	50+
Unreinforced								
3	0.75	4.5	**723-6864**					
5	1.5	8	**723-6876**					
6.5	1.5	8	**723-6888**					
8	2	12	**723-6890**					
10	2	14	**723-6906**					
12.5	2.25	17	**723-6918**					
16	3.25	22.5	**723-6920**					
20	3.25	26.5	**723-6931**					
25	3.25	32.5	**723-6943**					
Reinforced								
3	2.5	8	**723-6955**					
5	2.5	10	**723-6967**					
6.5	3	12.5	**723-6979**					
7.9	3	13.9	**723-6980**					
9.5	3	5.5	**723-6992**					
12.7	3	18.7	**723-7005**					

Metal Consumables

Chattaway Spatula

- A range of stainless steel or nickel chattaway spatula
- Micro or medium style

lin33

	Length mm	Style	Order Code	Price Each				
				1+	5+	10+	50+	100+
Stainless Steel	180	Medium	**709-9411**					
Stainless Steel	200	Medium	**709-9423**					
Stainless Steel	100	Micro	**709-9435**					
Stainless Steel	150	Micro	**709-9447**					
Stainless Steel	200	Micro	**709-9459**					
Nickel	150	Medium	**709-9356**					
Nickel	180	Medium	**709-9368**					
Nickel	200	Medium	**709-9370**					
Nickel	125	Micro	**709-9381**					
Nickel	150	Micro	**709-9393**					
Nickel	180	Micro	**709-9400**					

Stainless Steel Beakers

- Squat-form stainless steel beakers, with spout
- Seamless bright finish
- 304 stainless steel

Nominal Capacity ml	Full Capacity ml	Height mm	Diameter mm	Order Code
200	210	75	60	710-1995
550	580	125	75	710-2008
1000	1130	125	110	710-2010
2000	2260	180	125	710-2021

lin40

Capacity ml	Order Code	Price Each				
		1+	5+	10+	50+	100+
200	**710-1995**					
550	**710-2008**					
1000	**710-2010**					
2000	**710-2021**					

Balances

Digital Hanging Scales
Hand Held

- Constructed from hi-grade ABS plastic
- Ideal for use when conventional weighing pan is inappropriate
- Incorporates a tare facility
- Requires a 9V PP3 alkaline battery

Model	**393-01**	**393-00**	**393-50**
Range	15kg	25kg	50kg
Resolution	15g	50g	50g
Accuracy	±0.5%	±0.5%	±0.5%

lin161

Range	Order Code	Price Each				
		1+	3+	6+	12+	24+
15kg	**723-0539**					
25kg	**723-0540**					
50kg	**723-0552**					

Portable Digital Weighing Scales

Best value

- Low cost portable scales
- Hi-grade ABS plastic case with 150mm⌀ weighing pan
- Incorporates a tare facility
- Model 393-50 has an additional data hold facility
- Requires a 9V PP3 alkaline battery

Model	**GB-2K**	**GB-5K**
Range	0 to 2kg/0 to 4lbs	0 to 5 kg/0 to 10lbs
Resolution	1g/0.1oz	5g/0.2oz
Accuracy	±3g/0.2oz	±12.5g/0.5oz

lin160

	Order Code	Price Each				
		1+	3+	6+	12+	24+
GB-2K	**723-0503**					
GB-5K	**723-0515**					
Power Adaptor	**723-0527**					

Compact Scales HL

A&D INSTRUMENTS

- 1 : 200 resolution
- Solid, reliable design
- Large square weighing pan, 136 136mm
- Clear 8mm LCD display
- Accurate reading in a wide temperature range, -10°C to +40°C
- Net weight/stability indication
- Portable (takes Type AA batteries, not included)
- Low battery indication

W = 140, D = 198, H = 44.5

- Separate keys for power and re-zero
- AC adaptor available separately see Order Code 605-372

Capacity	Calibration Weight	Resolution	Non-Linearity	Repeatability	Mftrs. List No.	Order Code
200g	200g	0.1g	+0.2g	+0.1g	HL-200	708-2745
2000g	2000g	1g	+2g	+1g	HL-2000	708-2757

lin25

Capacity	Model	Order Code	Price Each				
			1+	5+	10+	50+	100+
200g	HL-200	**708-2745**					
2000g	HL-2000	**708-2757**					

Compact Balances EK-G

A&D INSTRUMENTS

- Resolution up to 1:12000
- Clear, wide-angle liquid crystal display
- Sealed keyboard protects against dust and spills
- 9 measurement units, including; Gram (g), Ounce (oz) and Carat (ct)
- Piece weighing and percentage function
- Comparator function
- Built-in level and levelling feet
- Robust construction with overload protection

W = 190, D = 218, H = 66

- Optional internal rechargeable battery pack for complete portability (available separately)
- Optional RS-232C serial interface for computer-controlled counting/inventory system

Capacity	Resolution	Non-Linearity	Repeatability	Mftrs. List No.	Order Code
120g	+0.01g	0.01g	0.01g	EK-120G	708-3154
1200g	0.1g	+0.1g	0.1g	EK-1200G	708-3166
6000g	1g	+1g	1g	EK-6000G	708-3178

lin26

			Price Each			
Capacity	Order Code	1+	5+	10+	50+	100+
120g	**708-3154**					
1200g	**708-3166**					
6000g	**708-3178**					
Accessories						
Serial Interface	**708-3180**					
Battery Pack	**708-3191**					

Counting Scales

A&D INSTRUMENTS

W = 320, D = 330, H = 118

● Internal resolution up to 1:120,000 (1:30,000 mode can be selected)
● 3kg or 6kg capacity
● Two LCD displays and 10-key pad allows direct entry and simultaneous viewing of total weight, piece and count
● Integral count totalising facility
● Automatic counting with accuracy improvement ensures optimum count accuracy after initial sampling
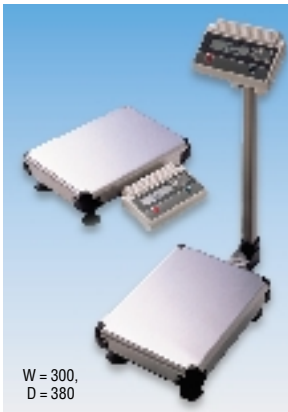● Target weight/count (Max. 30,000/120,000 pieces)

● Comparator function with output to display
● Battery (not supplied) or ac adaptor (supplied) operation
● Accurate reading in a wide temperature range -10°C to 40°C
● Optional RS-232C serial interface for computer-controlled counting/inventory system

Capacity	Resolution	Non-Linearity	Min. Unit Weight	Mftrs. List No.	Order Code
3kg	0.5g	+0.5g	0.1g/0.025g	HC-3KB	708-3725
6kg	1g	+1g	0.2g/0.05g	HC-6KB	708-3737

lin27

	Mftrs.			Price Each			
Capacity	List No.	Order Code	1+	5+	10+	50+	100+
3kg	HC-3KB	**708-3725**					
6kg	HC-6KB	**708-3737**					
Serial Interface	HC-OP-03	**708-3749**					

Bench and Platform Scales

A&D INSTRUMENTS

W = 300, D = 380

● Excellent general-use bench or floor scale
● Easy to set up and operate
● Washable stainless steel weighing pan
● Moisture-protected load cell
● Piece weighing and percentage function Sharp, 22m high LCD display
● Display head rotates and tilts on the optional column: accurate reading in a wide temperature range: -10°C to +40°C
● Standard accessories include: manual, ac adaptor and protective cover with up to 100 hours battery operation with alkaline type cells (not supplied)
● Optional RS-232C serial interface for computer-controlled counting/inventory system

Capacity	Resolution	Mftrs. List No.	Order Code
31kg	10g	FG-30K	708-4249
150kg	50g	FG-150K	708-4250

lin28

			Price Each			
	Capacity	Order Code	1+	5+	10+	50+	100+
FG-30K	31kg	**708-4249**					
FG-150K	150kg	**708-4250**					
Display Column		**708-4274**					
Serial Column		**708-4262**					

Industrial Balances

A&D INSTRUMENTS

● Counting and comparator functions
● Full digital calibration
● Robust stainless steel weighing pan for wash-down applications, with overload protection
● 3 weighing units: kg, lb, oz
● Sharp, 22mm high LCD display
● Display head rotates and tilts on the optional column; accurate reading in a wide temperature range, -10°C to 40°C
● Standard accessories include: manual, ac adaptor and protective cover with up to 100 hours battery (6 'C' type) operation with manganese type cells, 200 hours with alkaline cells
● Optional RS-232C serial interface for computer controlled counting/inventory system

Maximum Dimensions: W = 405, D = 405, H = 800

Capacity	Resolution	Min. Unit. Weight	Linearity	Mftrs. List No.	Order Code
60kg	20g	20g	+20g	HV-60KA1	708-4444
150kg	50g	20g	+50g	HV-150KA1	708-4456

lin29

	Mftrs.			Price Each		
	List No.	Capacity	Order Code	1+	5+	10+	50+
Scales	HV-60KA1	31kg	**708-4444**				
Scales	HV-150KA1	150kg	**708-4456**				
Serial I'face	HV-OP-03		**708-4468**				

Baths

Utrasonic Baths

Grant

● High-power, industrial, piezo-electric transducers guarantee efficient operation
● Robust and reliable performance
● All wetted parts made of high-quality stainless steel to prevent corrosion
● XB6, 14 and 22 models include lid and basket, integral timer, heater and drain facility
● Designed to maximise the working area with a small footprint
● Complies with IEC1010-1 and IEC1010-2

3 YEAR GUARANTEE

Well-established ultrasonic technology, using industrial calibre transducers, gives effective and long-lasting cleaning performance. The tanks are enclosed within attractively styled and robust moulded plastic and powder-coated steel skirts. Tank sizes range from 2 to 22 litres, baths XB6, XB14 and XB22 are supplied with lid and cage inclusive.

Model	XBS	XB3	XB6	XB14	XB22
Tank Capacity	2L	3L	6L	14L	22L
No. of transducers	1	2	3	6	9
Power RMS	70W	85W	100W	200W	300W
Power Peak	140W	170W	200W	400W	600W
Typical noise level	>65db	>68db	>68db	7>70db	>72db
Drain facility	—	—	—	TAP	TAP
Heater power	—	—	200W	600W	800W
Switchable temp.	—	—	50°C	50°C	50°C
Variable timer (mins)	—	—	0 to 30	0 to 30	0 to 30
Dimensions (mm)	XB2	XB3	XB6	XB14	XB22
Tank L	149	238	150	325	505
W	135	135	300	300	300
D	100	100	150	150	150
Overall L	176	265	205	380	555
W	162	162	325	325	325
D	250	250	310	310	310

lin30

	Mftrs.		Price Each		
	List No.	Order Code	1+	4+	8+
2 Litre Bath	XB2	**709-8420**			
3 Litre Bath	XB3	**709-8431**			
6 Litre Bath	XB6	**709-8443**			
14 Litre Bath	XB14	**709-8455**			
22 Litre Bath	XB22	**709-8467**			
2 Litre Cage	AB2	**709-8479**			
3 Litre Cage	AB3	**709-8480**			
3 Litre Lid	AL2	**709-8492**			
3 Litre Lid	AL3	**709-8509**			

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Laboratory Equipment

Baths

0.6, 4.9 and 12 Litres

LANGFORD SONOMATIC

- Sturdy 304 stainless construction
- Ultrasonic cleaners in three capacities
- 12 month warranty on parts and labour, 2 year on transducer bonding

All are supplied with an ASTA approved plug fitted.

Order Code	299-364	299-376
Mftrs. List No.	T80	575
Tank capacity	0.6 litres	4.9 litres
Tank dimensions	151 83 65	300 150 150
Operating voltage	220/240V – 50/60Hz	220/240V – 50/60Hz
Power consumption	60W	460W
H.F. Peak power	80W	300W
Timer	0 – 15 mins	0 – 15 mins
Heater temperature	NONE	off/on 60°C fixed
Drain tap	NONE	NONE

pcb85

Capacity	Order Code	Price Each		
		1+	3+	6+
0.6 litres	**299-364**			
4.9 litres	**299-376**			

Tank Accessories

LANGFORD SONOMATIC

- Plastic lids and stainless steel baskets for ultrasonic tanks

Tank size	0.6 litres	4.9 litres
Lid	108-099	108-100
Basket	—	108-102

pcb86

	Order Code	Price Each		
		1+	3+	6+
Lid 0.6 litres	**108-099**			
Lid 4.9 litres	**108-100**			
Basket 4.9 litres	**108-102**			

Meters

pH Logger
Hanna 'pH Turtle'

HANNA instruments

- Turns your PC into a pH meter
- Continuous logging on your monitor
- Data in graphic or table format
- Min and max alarm settings
- No need for power supply or serial box
- System includes pH turtle, pH electrode, Windows® software and RS232 cable

Range	0.0 to 14.0 pH
Resolution	0.1 pH
Accuracy	±0.2 pH
pH Electrode	HI 1333B with 1m cable
Environment	0 to 50°C
Dimensions	80mm diameter
Weight	250g

teq91

Mftrs. List No.	Order Code	Price Each			
		1+	5+	10+	20+
HI-9815	**725-9128**				

Pre-Mixed Calibration Solutions
pH and Conductivity

HANNA instruments

- Available for both Conductivity and pH calibration
- Pre-mixed for ease of use
- Supplied with calibration chart
- Available for a range of values

lin150

	Order Code	Price Each					
pH Buffer Solutions 460ml		1+	5+	10+	50+	100+	250+
pH 4.01	**710-5423**						
pH 7.01	**710-5435**						
pH 10.01	**710-5447**						
Conductivity Calibration Solutions 460ml							
12,880µS/cm	**710-7365**						
1413µS/cm	**710-7377**						
84µS/cm	**710-7389**						

pH Buffer Solutions

HANNA instruments

- Single use pH buffer solutions
- Each 25ml sachet contains enough solution for one calibration
- Simple to use, open sachet, insert tester and calibrate
- No extra containers required
- No solution is wasted
- Sachets are supplied in packs of 25

teq92

25 Per Pack			Price Per Pack			
	Mftrs. List No.	Order Code	1+	5+	10+	20+
4.01 pH	HI-70004P	**725-9130**				
7.01 pH	HI-70007P	**725-9141**				
10.1 pH	HI-70010P	**725-9153**				

Bench pH Meter

HANNA instruments

- Large clear LCD displays pH/mV with °C
- Automatic calibration with choice of 5 buffers
- User-friendly operation with LCD icons
- Automatic or manual temperature compensation
- Supplied with glass bodied combination pH electrode, temperature probe

Advanced microprocessor bench pH meter for accurate measurement of pH, ion selective readings redox and temperature across a wide range of applications. Exceptionally user-friendly with graphic icons on the large LCD to guide the user through calibration, correct buffer choice, stable readings and problem solving. Calibration is automatic with a choice of 5 buffers. Readings can be temperature compensated either automatically or manually from 0°C to 100°C. Supplied complete with glass combination pH electrode, temperature probe and starter pack including buffer solutions 4 and 7, electrolyte and cantilever electrode holder.

Range

pH	0.00 to 14.00
mV	±399.9 (ISE), ±1999 (ORP)
°C	0.0 to 100.0

Resolution

pH	0.01
mV	0.01 (ISE), 1 (ORP)
°C	0.1

Accuracy

pH	±0.01
mV	±0.2 (ISE), ±1 (ORP)
°C	±0.5

Temperature Compensation	Auto or manual: 0.0°C to 100.0°C
Calibration	Auto with a choice of 5 buffers (4.01, 6.86, 7.01, 9.18, 10.01)
Power Supply	12V dc adaptor
Dimensions	230 170 70mm
Weight	Kit 3.2 kg

3 YEAR GUARANTEE

lin52

Mftrs. List No.	Order Code	Price Each				
		1+	5+	10+	50+	100+
HI-9321	**710-5563**					

Indicator Paper
ph1 – 11

- Supplied in packs of 10 books
- Each book contains 20 leaves (60 10mm)

lin186

10 Per Pack		Price Per Pack		
Order Code	1+	5+	15+	20+
724-0326				

Magnetic Stirrer

HANNA instruments

- General-purpose laboratory stirrer
- Capacity 1 litre
- Precision seed control variable up to 1000rpm
- Compact size saves on bench space
- Built-in speed limiter for extra safety

Very popular low-cost and compact magnetic stirrer for laboratory and production use giving variable speed up to 1000rpm for samples of up to 1 litre. For safety, electronic controls are incorporated for precision speed control and to limit the maximum speed even if the load is suddenly removed. The ABS plastic top cover resists accidental chemical spills and is supplied with one 25mm long Teflon® coated stir bar.

Technical Specifications	HI-190M	Cover Material	ABS plastic
Max. Stirring Capacity	1 litre	Power Supply	220/240V ac, 50/60Hz
Speed Range	Min. 100 rpm		
	Max. 1000rpm		

lin53

Mftrs. List No.	Order Code	1+	5+	Price Each 10+	50+	100+	250+
HI-190M	710-5710						

Stirrer Bar
PTFE Coated

- Magnetic
- Provided with a central ring to ensure efficient spinning
- Suitable for containers with curved or uneven bases

lin129

Length mm	Ø mm	Mftrs. List No.	Order Code	1+	10+	Price Each 20+	50+	100+
25	6	SWN504	714-4131					

Timers

Digital Stopwatch

Best value

- Low cost hand held stopwatch with an 8mm hi-contrast LCD display
- Functions include stop, start split and reset
- Standard functions are clock (in 12 o 24 hour format), day, date and alarm
- Supplied with neck band and button cell battery

lin162

Order Code	1+	3+	Price Each 6+	12+	24+
723-0576					

Digital Stopwatch

- 7 digit LCD
- Displays hours, minutes, seconds, 1/10 seconds, 1/100 seconds
- Stop/start and split lap/reset function buttons
- Supplied with V357 battery or equivalent

tim14

Order Code	1+	5+	Price Each 10+	25+	100+
734-512					

Digital Stopwatch

- 7 digit LCD
- Displays hours, minutes, seconds, 1/10 seconds, 1/100 seconds
- Stop/start and split/reset function buttons
- Supplied with AA battery

tim111

Order Code	1+	5+	Price Each 10+	25+	100+
176-018					

Desktop Stopwatch

- Large LCD display
- Countdown up to 10 hours
- 1/100 second stopwatch facility
- Split/lap times
- Complete with instruction manual
- Uses AAA alkaline battery (supplied)

H = 45, D = 105, W = 100

tim109

Order Code	1+	5+	Price Each 10+	25+	100+
734-550					

Countdown Timer

Best value

- 4 digit display countdown timer
- LCD shows minutes and seconds
- Programmable countdown from 1 second to 59 minutes 59 seconds
- Loud buzzer alarm for 30 seconds when timer counts to zero
- Memory recall function for previous time set
- Free standing, clip mounting or attached by magnet
- Uses AAA alkaline battery (supplied)

H = 56, W = 64, D = 18

tim110

Order Code	1+	10+	Price Each 25+	50+	100+
734-548					

Continued

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Laboratory Equipment

Timers — continued

Seconds Timer

H = 128, W = 103, D = 54

SMITHS
TIME GUARD

● Process timers with spring driven key wind movement
● Strong metal casing
● Luminous dial markings and overwind protection
● 0 to 60 minute time range with start, stop and reset

Time range		60m
Dial marking:	Quick hand	0.01m increments to 1m
	Slow hand	1m increments to 60m
Casing		Black finish, silver dial
Mftrs. List No.		NS22G

tim70

		Price Each			
	Order Code	1+	5+	10+	25+
Seconds timer	**213-640**				

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Laboratory Equipment