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**ELECTRONIC CATALOGUE  
CUSTOMER'S AMENDMENTS**

**ISSUE 6 — June 2012**

**Page 1 of 18 pages**

	<i>Amendment</i>
	<p><b>CANCELLATIONS</b></p> <p><b>CJ600-10 Cancelled, offer CK565-10</b> <b>CJ602-10 Cancelled, offer CK567-10</b> <b>CJ602-25 Cancelled, offer CK567-25</b> <b>CJ650-10 Cancelled, no replacement</b> <b>CJ654-60 Cancelled, offer CK572-60</b> <b>CJ658-30 Cancelled, no replacement</b> <b>CJ658-60 Cancelled, offer CK572-75</b> <b>CJ662-60 Cancelled, offer CK572-75</b> <b>CJ666-60 Cancelled, no replacement</b> <b>CJ680-10 Cancelled, offer CK585-10</b> <b>CJ684-30 Cancelled, offer CK580-30</b> <b>CJ684-50 Cancelled, offer CK580-45</b> <b>CJ684-60 Cancelled, offer CK580-60</b> <b>CJ688-20 Cancelled, offer CK585-20</b> <b>CJ688-30 Cancelled, offer CK585-30</b> <b>CJ688-50 Cancelled, no replacement</b> <b>CJ688-60 Cancelled, offer CK585-60</b> <b>CJ710-30 Cancelled, no replacement</b> <b>CJ710-60 Cancelled, no replacement</b> <b>CJ714-30 Cancelled, no replacement</b> <b>CJ714-60 Cancelled, no replacement</b> <b>CJ718-60 Cancelled, no replacement</b> <b>CJ738-60 Cancelled, no replacement</b> <b>CJ749-60 Cancelled, no replacement</b></p>

**NEW ITEMS**

**Flexible TLC Plates**

**Macherey-Nagel**

**Silica Gel Plates, Polygram<sup>®</sup> and Alugram<sup>®</sup>**

Layer 250 $\mu$ m. All plates are 20 x 20cm and can be cut with scissors. Silica 60, mean pore 60 $\text{Å}$ , specific surface (BET) of approximately 500m<sup>2</sup>/g, specific pore volume of 0.75ml/g and a particle size of 5 to 17 $\mu$ m.

	Ref.	Pack qty.
<b><u>Polygram<sup>®</sup> Polyester backed</u></b>		
CK565-10	Sil G	25
CK565-25	Sil G/UV <sub>254</sub> *	25
<b><u>Alugram<sup>®</sup> Aluminium backed</u></b>		
CK567-10	Sil G	25
CK567-25	Sil G/UV <sub>254</sub> *	25

\*With manganese activated, zinc silicate fluorescent indicator operating at 254nm.

**Glass TLC Plates**

**Macherey-Nagel**

**Reverse Phase Plates**

HPTLC plates with concentrating zone. Mean 60 $\text{Å}$  pore, silanized silica C<sub>18</sub> with mean particle size of 2 to 10 $\mu$ m.

	Ref.	Size, cm	Layer thickness, $\mu$ m	Pack qty.
CK572-60	Nano-Sil C <sub>18</sub> -100	10 x 10	200	25
CK572-75	RP-18W/UV <sub>254</sub> *	20 x 20	250	25

\*With fluorescent indicator operating at 254nm.

**Standard Plates**

Layer thicknesses as indicated. Pre-coated with silica 60 with a mean pore diameter of 60Å, specific surface (BET) of approximately 500m<sup>2</sup>/g, specific pore volume of 0.75ml/g and a particle size of 5 to 17µm.

	Ref.	Size, cm	Pack qty.
<b><u>Layer 250µm</u></b>			
CK580-30	Sil G-25	5 x 20	100
CK580-45	Sil G-25	10 x 20	50
CK580-60	Sil G-25	20 x 20	25
CK585-10	Sil G-25 UV <sub>254</sub> *	2.5 x 7.5	100
CK585-20	Sil G-25 UV <sub>254</sub> *	5 x 10	50
CK585-30	Sil G-25 UV <sub>254</sub> *	5 x 20	100
CK585-50	Sil G-25 UV <sub>254</sub> *	10 x 20	50
CK585-60	Sil G-25 UV <sub>254</sub> *	20 x 20	25
<b><u>Layer 1000µm</u></b>			
CK586-25	Sil-G-100 UV <sub>254</sub> *	20 x 20	15

\*With manganese activated, zinc silicate fluorescent indicator operating at 254nm.

**CANCELLATIONS**

**DK220-13 Cancelled, no replacement**

**DK220-23 Cancelled, offer DK224-20**

**NEW ITEMS**

**Bottle Top Dispensers**

**Ultra Series**

**Volac**

- Precision glass barrel with PTFE piston
- Accuracy within  $\pm 1\%$
- Continuous pointer, volume adjustment
- Liquid pathway: glass, PTFE, FEP
- Autoclavable as two dismantled sub-assemblies to 121°C at 2 bar
- Works calibration certificate included
- Supplied with adapters for 28, 30, 32, 36, 40 and 45mm diameter screw necks

**Ultra Series Dispensers**

As described. Supplied with screwthread adapters for 28, 30, 32, 36, 40 and 45mm diameter screw necks. Without reservoir bottle.

**DK224-10 0.25 to 2.50 x 0.05ml**  
**DK224-20 0.50 to 5.00 x 0.10ml**  
**DK224-30 1.00 to 10.00 x 0.20ml**  
**DK224-40 2.50 to 30.00 x 0.50ml**  
**DK224-50 5.00 to 60.00 x 1.00ml**  
**DK224-60 10.00 to 100.00 x 2.00ml**

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**CANCELLATION**

**FD300-22 Cancelled, offer FD301-22**

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**CANCELLATIONS**

**FU500-25 Cancelled, offer FU502-25**

**FU504-25 Cancelled, offer FU502-25**

**NEW ITEMS**

**Separating Funnels, Brand**

**Polypropylene, conical. With PTFE stopcock and polypropylene screw cap. Autoclavable at 121°C for 15 minutes. Ungraduated.**

**FU502-15 125ml**

**FU502-25 250ml**

**FU502-35 500ml**

**FU502-45 1000ml**

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**NEW ITEMS**

**Stools**

**Black epoxy powder coated tubular steel frame with footrest and contoured polypropylene seat with lumbar support, in colours as indicated. Dimension given is overall height.**

**FZ510-04 Green, 445mm**

**FZ510-08 Green, 560mm**

**FZ510-12 Green, 610mm**

**FZ510-16 Green, 685mm**

**FZ512-04 Black, 445mm**

**FZ512-08 Black, 560mm**

**FZ512-12 Black, 610mm**

**FZ512-16 Black, 685mm**

**Other seat colours are available - details on request.**

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**CANCELLATION**

**GE713-11 Cancelled, no replacement**

**CANCELLATIONS**

**GG510-10 Cancelled, special order only**  
**GG510-15 Cancelled, special order only**  
**GG510-25 Cancelled, special order only**  
**GG510-30 Cancelled, special order only**  
**GG510-40 Cancelled, special order only**  
**GG510-50 Cancelled, special order only**  
**GG510-60 Cancelled, special order only**  
**GG510-80 Cancelled, special order only**

**GG530-05 Cancelled, special order only**  
**GG530-15 Cancelled, special order only**  
**GG530-25 Cancelled, special order only**  
**GG530-35 Cancelled, special order only**  
**GG530-45 Cancelled, special order only**  
**GG530-55 Cancelled, special order only**

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**CANCELLATIONS**

**HT800-20 Cancelled, offer HT802-20**  
**HT800-40 Cancelled, offer HT802-40**  
**HT800-60 Cancelled, offer HT802-60**  
**HT805-15 Cancelled, offer HT808-15**  
**HT805-25 Cancelled, offer HT808-25**  
**HT805-35 Cancelled, offer HT808-35**  
**HT805-45 Cancelled, offer HT808-45**

**NEW ITEMS**

**Dipslides, Standard**

Similar to previous HT800-series. Supplied in packs of tests as indicated, with results interpretation card and instructions.

**HT802-20 Standard TTC, pack of 10**  
**HT802-40 Standard Combi, pack of 10**  
**HT802-60 Standard S, pack of 9**

**Dipslides, Flexible**

Similar to previous HT805-series. Supplied in packs of tests as indicated, with results interpretation card and instructions.

**HT808-15 Flexible TPC, pack of 10**  
**HT808-25 Flexible E, pack of 10**  
**HT808-35 Flexible E/B-GUR, pack of 10**  
**HT808-45 Flexible Y & F, pack of 10**

**CANCELLATION**

**IC360-12 Cancelled, offer IC360-14**

**NEW ITEM**

**Ice Flake Maker**

**Produces high purity ice suitable for a wide range of uses in hospitals, laboratories, analysis research stations, blood transportation with specific usage for ice bags, oxygen tents, surgery, cold therapies, blood transfusion, chemical reactions and a host of other applications.**

**The ice produced is slow melting and sufficiently dry to prevent the flakes from sticking together in lumps.**

<b>Catalogue No.</b>			<b>IC360-14</b>
<b>Model</b>			<b>AF103AS</b>
<b>Output</b>	<b>kg/day</b>		<b>105</b>
<b>Storage capacity</b>	<b>kg</b>		<b>30</b>
<b>Condensing unit</b>			<b>Air cooled</b>
<b>Compressor</b>	<b>hp</b>		<b>1/5</b>
<b>Refrigerant</b>			<b>R404a</b>
<b>Overall</b>	<b>H</b>	<b>mm</b>	<b>1006</b>
	<b>W</b>	<b>mm</b>	<b>592</b>
	<b>D</b>	<b>mm</b>	<b>622</b>
<b>Weight</b>	<b>kg</b>		<b>66</b>
<b>Water</b>	<b>litres/hour</b>		<b>3.3</b>
<b>Water inlet</b>			<b>3/4 in gas</b>
<b>Water outlet</b>			<b>20mm o.d.</b>

**The outer case is stainless steel and there is an insulated plastic lined bin with sliding door on the upper front for the convenient storage and removal of flake ice. Electrical and water connections are at the rear and there are safety controls to protect against water supply failure.**

**Ice Flake Maker, Scotsman**

**As described. With stainless steel casing and insulated plastic lined bin. For 230V 50Hz a.c. only, 3A.**

**IC360-14 AF103AS**

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**CANCELLATION**

**MS805-21 Cancelled, offer MS805-19**

## CANCELLATIONS

PR210-20 Cancelled, offer PR240-20  
PR210-30 Cancelled, offer PR240-30  
PR210-40 Cancelled, offer PR240-40  
PR210-50 Cancelled, offer PR240-50  
PR210-60 Cancelled, offer PR240-70  
PR210-70 Cancelled, offer PR240-70  
PR210-90 Cancelled, offer PR240-90  
PR230-04 Cancelled, offer PR245-05  
PR230-08 Cancelled, offer PR245-08  
PR230-12 Cancelled, offer PR245-12  
PR230-16 Cancelled, offer PR245-16  
PR230-20 Cancelled, offer PR245-20  
PR230-24 Cancelled, no replacement  
PR230-28 Cancelled, offer PR245-28  
PR230-32 Cancelled, offer PR245-32  
PR230-36 Cancelled, offer PR245-36  
PR230-40 Cancelled, offer PR245-40  
PR230-42 Cancelled, no replacement  
PR230-44 Cancelled, no replacement  
PR230-46 Cancelled, no replacement  
PR230-50 Cancelled, offer PR245-50  
PR230-55 Cancelled, offer PR245-55

## NEW ITEMS

### Smart Series Micropipettors

#### Volac

- Choice of fixed or digital variable and multichannel models
- Lightweight yet robust construction and ergonomic design for comfortable operation
- Fully autoclavable
- Manufactured in engineered plastics offering high chemical and UV resistance
- Soft-touch handle grip and tip ejector with thermoplastic elastomer coating which prevents heat transfer from the hand to the pipette, ensuring high accuracy even during continuous use
- Designed for easy user recalibration
- Supplied with individual Q.C. and calibration report in accordance with ISO 8655
- Adjustable models have large, clear 4-digit display and resistant-free click stop counter and locking mechanism to prevent accidental volume changes



**Digital variable volume models**

	Range x increments, µl	Accuracy ±%	Precision ±%
PR240-10	0.1 to 2.5 x 0.002	12 to 2.5	6 to 1.6
PR240-20	0.5 to 10 x 0.02	2.5 to 1.0	1.8 to 0.6
PR240-25	2 to 20 x 0.02	3.0 to 0.9	2.0 to 0.4
PR240-30	5 to 50 x 0.1	2.0 to 0.6	2.0 to 0.3
PR240-40	10 to 100 x 0.1	3.0 to 0.8	1.0 to 0.2
PR240-50	20 to 200 x 0.2	2.5 to 0.6	0.7 to 0.2
PR240-70	100 to 1000 x 1.0	3.0 to 0.6	0.6 to 0.2
PR240-80	500 to 5000 x 10	2.4 to 0.6	0.6 to 0.2
PR240-90	1000 to 10000 x 20	3.0 to 0.6	0.6 to 0.2

**Fixed volume models**

	Range, µl	Accuracy ±%	Precision ±%
PR245-02	2.5	2.0	1.6
PR245-05	5	1.3	1.2
PR245-08	10	1.2	0.8
PR245-12	20	1.0	0.5
PR245-16	25	1.0	0.3
PR245-20	50	0.7	0.3
PR245-28	100	0.6	0.2
PR245-32	200	0.3	0.2
PR245-36	250	0.6	0.2
PR245-40	500	0.6	0.2
PR245-48	1000	0.6	0.2
PR245-50	2000	0.3	0.15
PR245-55	5000	0.3	0.15
PR245-60	10000	0.6	0.2

**Multichannel models**

	Range x increments µl	Accuracy ±%	Precision ±%
<b><u>8 Channel</u></b>			
PR248-05	0.5 to 10 x 0.02	8.0 to 2.0	5.0 to 1.0
PR248-10	2 to 20 x 0.02	7.0 to 2.0	3.0 to 1.6
PR248-15	5 to 50 x 0.1	3.0 to 1.0	2.0 to 0.7
PR248-20	10 to 100 x 0.1	3.0 to 0.8	2.0 to 0.3
PR248-25	20 to 200 x 0.2	5.0 to 0.7	1.4 to 0.25
PR248-30	30 to 300 x 0.2	3.0 to 0.6	1.0 to 0.30

**12-Channel**

PR248-65	0.5 to 10 x 0.02	8.0 to 2.0	5.0 to 1.0
PR248-70	2 to 20 x 0.02	7.0 to 2.0	3.0 to 1.6
PR248-75	5 to 50 x 0.1	3.0 to 1.0	2.0 to 0.7
PR248-80	10 to 100 x 0.1	3.0 to 0.8	2.0 to 0.3
PR248-85	20 to 200 x 0.2	5.0 to 0.7	1.4 to 0.25
PR248-90	30 to 300 x 0.2	3.0 to 0.6	1.0 to 0.30

**Accessory Rack**

PR248-95 Carousel, for up to 6 PR240- to PR248- pipettors

**Pipette Tips**

For pipettors with volumes as indicated.

PR255-10 Yellow, 1-200µl, pk.1000  
 PR255-30 Blue, 100-100µl, pk.1000  
 PR255-50 White, 500-5000µl, pk.500  
 PR255-55 Blue, 1000-10000µl, pk.400

**CANCELLATIONS**

SD110-30 Cancelled, no replacement  
 SD110-35 Cancelled, no replacement  
 SD114-10 Cancelled, no replacement  
 SD114-15 Cancelled, no replacement  
 SD114-40 Cancelled, no replacement

## **NEW ITEMS**

### **Spectrophotometer, Genova Plus**

#### **Jenway**

Dedicated life science spectrophotometer based on the Jenway 7315.

- 5nm spectral bandwidth
- Pre-programmed for DNA/RNA analysis, protein assay determination, cell density measurement, purity scan, multi-wavelength and concentration measurement modes
- GLP compliant, with logging of time, date and user i.d., instrument and method locks
- USB output port and USB flash drive supplied for results storage, analogue and RS232 outputs for connection to external recorder or user's PC
- Accessory internal printer module available

#### **Nucleic acid determination**

Pre-programmed with methods for the measurement of ssDNA, dsDNA, RNA and oligonucleotide concentration at wavelengths 260, 280 and 230nm, with optional concentration at 320nm. This mode has the 260/280nm and 260/230nm ratios pre-programmed as well as a variable ratio option enabling up to 3 wavelengths to be entered in addition to the correction wavelength. A dilution option is also available to calculate the original concentration of diluted samples.

#### **Protein assay determination**

Pre-programmed for Bradford, Lowry, Biuret, Bicinchoninic acid (BCA) and Direct UV assays. Allows up to 12 standards, with 3 replicates of each standard, to be measured to create the standard curve. Replicate measurements can be set to automatically perform 3 readings sequentially from the same sample, or to enable a single measurement to be undertaken on three separate samples of the same concentration.

#### **Cell density measurement mode**

Bacterial cell cultures are routinely grown until optical clarity reaches 0.4 at 600nm, indicating the optimum cell number for harvesting. Measurements to monitor cell growth can be performed at any user-selected wavelength.

#### **Purity scan measurement mode**

For checking nucleic acid purity, particularly where impurities may be present at 230nm but undetectable using the 260/280nm ratio measurement method. Full wavelength range scanning available to identify any distorted peaks.

#### **Multi-wavelength measurement mode**

4 alternative wavelengths can be used for sample measurements with ratio calculations and formulae with various factors to calculate concentration.

#### **Concentration measurement mode**

Performs simple absorbance, % transmittance and concentration calculations with choice of up to 27 concentration units.

<b>Catalogue No.</b>		<b>SJ372-80</b>
<b>Model</b>		<b>Genova Plus</b>
<b>Wavelength range</b>	<b>nm</b>	<b>198 to 1000</b>
<b>Bandwidth</b>	<b>nm</b>	<b>5</b>
<b>Wavelength accuracy</b>	<b>nm</b>	<b>±2</b>
<b>Light source</b>		<b>Pulsed xenon</b>
<b>Repeatability</b>	<b>nm</b>	<b>±0.5</b>
<b>Photometric ranges</b>	<b>Transmittance</b>	<b>0 to 199.9% x 0.1% resolution, ±1% accuracy</b>
	<b>Absorbance</b>	<b>-0.300 to 2.500A x 0.100A resolution, ±0.01A accuracy (at 1.000)</b>
<b>Concentration modes</b>	<b>range</b>	<b>-300 to 9999</b>
	<b>resolution</b>	<b>selectable 1/0.1/0.01/0.001</b>
	<b>calibration</b>	<b>blank and 1 factor/standard</b>
	<b>factor</b>	<b>1 to 10000</b>
	<b>standard</b>	<b>1 to 1000</b>
<b>Quantitation modes</b>	<b>range</b>	<b>-300 to 9999</b>
	<b>resolution</b>	<b>selectable 1/0.1/0.01/0.001</b>
	<b>calibration</b>	<b>blank and up to 12 standards</b>
	<b>curve fit</b>	<b>Quadratic, linear interpolate and through zero</b>
<b>Kinetics modes</b>	<b>time, secs</b>	<b>2 to 9999</b>
	<b>calibration</b>	<b>blank and 1 factor/standard</b>
	<b>resolution</b>	<b>selectable 1/0.1/0.01/0.001</b>
	<b>analysis</b>	<b>conc. rate of change, initial and final absorption or % transmission</b>
<b>Scanning modes</b>	<b>interval, nm</b>	<b>selectable 1/2/5</b>
	<b>analysis</b>	<b>absorption, % T, peaks and valleys</b>
<b>Outputs</b>		<b>USB, analogue, RS232</b>
<b>Dimensions H x W x D</b>	<b>mm</b>	<b>220 x 275 x 400</b>
<b>Weight</b>	<b>kg</b>	<b>6</b>

**Genova Plus Spectrophotometer, Jenway**

As described. Supplied with micro-cuvette holder, USB memory stick and universal power supply for 100-240V 50/60Hz single phase supplies.

**SJ372-80 Genova Plus**

**Accessories**

- SJ364-18** Cell holder, adjustable, for 20 to 100mm cells  
**SJ373-14** Xenon lamp module for SJ372-80  
**SJ373-20** Cuvettes, micro, pack of 100  
**SJ373-25** Tray cell for ultra-micro (5µl down to 0.7µl) volume samples. Fibre optic cuvette with two caps giving 1mm or 0.2mm path lengths, creating a “virtual dilution” of 1:10 or 1:50 compared to standard 10mm cuvette  
**SJ377-94** Internal printer module

**NEW ITEMS**

**Mini-Magnetic Stirrers, Stuart, SM5/-series**

Maximum speed 2000rpm. Maximum volume stirred 1 litre (water). Variable speed control. With robust polypropylene housing and chemically resistant, polycarbonate top with a choice of pattern. Overall 143 x 143 x 66mm W x D x H. Weight 0.5kg. For 120-230V 50/60Hz single phase supplies.

SS310-15 SM5/Stuart, with 'Stuart' pattern top plate  
SS310-25 SM5/Bibby, with 'Bibby' pattern top plate  
SS310-35 SM5/Swirl, with 'Swirl' pattern top plate

**CANCELLATION**

SS345-40 Cancelled, offer SS345-45

**CANCELLATION**

WB706-20 Cancelled, offer WB706-25

**NEW ITEM**

**Bacteria Check**

Tests for presence of coliform bacteria. Follows the APHA Standard Method 9221D screen test for total coliforms in potable water. U.S. EPA compliant. Simple test involves filling a 100ml sterile bottle with a water sample, capping and standing for 24 hours at room temperature. Indicating media within the bottle will turn purple if coliforms are present or yellow if absent. Supplied in a pack of 12.

WS580-10 Bacteria check, 100ml bottles, pack of 12

**NEW ITEMS**

**Photometers, Exact<sup>®</sup> Micro**

Fixed wavelength, portable photometers using patented technologies (solutions and/or reagent dosing strips) to analyse a wide range of parameters within water samples, on-site.

- 0.01ppm (mg/l) resolution on most tests (otherwise 0.1ppm)
- 4ml sample volume requires minimal reagents, reducing cost
- Built-in timer for accurate testing
- 20 test memory for each test regime
- Can also be used as turbidimeters with range 3 to 580NTU

❑ Waterproof housing to IP67 protection level

As described. Supplied as a meter only. Overall W x D x H 50 x 35 x 165mm. Weight 140g. Require, but are not supplied with, 4 x 1.5V AAA batteries and parameter strips/reagents as required for operation.

- WS585-20 Exact Micro 7+, 525nm wavelength  
 WS585-40 Exact Micro 8, 638nm wavelength  
 BL610-08 1.5V AAA batteries (4 required)  
 WS585-85 Carrying case for Exact Micro meters

**Test strips/reagents for WS585 Photometers**

For use with photometers of wavelength and in parameter ranges, chemistries and packs as indicated.

	Photometer wavelength, nm	Parameter range, ppm	Chemistry	Pack qty. strips
<b><u>Single Parameter</u></b>				
WS587-04	525	Alkalinity, total, 12 to 180	Alizarin red S + citrate	100
WS587-19	638	Ammonia, 0 to 2.00	Salicylate method	25
WS587-24	525	Calcium (CaCO <sub>3</sub> ), 10 to 500	Oxalic acid	50
WS587-29	525	Total Chlorine (DPD-3)**, 0 to 11.0	KI	100
WS587-34	525	HR Chlorine, 0 to 300	KI + buffer	50
WS587-39	525	Chlorine (NaCl)*, 0 to 350	Silver (ppt)	25
WS587-44	525	Chromium (VI)*, 0 to 1.5	Diphenylcarbazide	50
WS587-49	525	Copper (Cu <sup>2+</sup> ), 0.04 to 8.0	Biquinoline	50
WS587-54	638	Cyanide, 0.00 to 1.90	Isonicotinic/Barbituric acid	50
WS587-59	638	Fluoride*, 0.1 to 1.1	SPADNS	25
WS587-64	525	LR Total Hardness*, 2 to 77	Phthalein purple	100
WS587-74	525	LR Hydrogen peroxide*, 0 to 3	DPD + PO <sub>4</sub> + MoO <sub>4</sub> + KI	50
WS587-79	525	MR Hydrogen peroxide*, 0 to 33	DPD + MoO <sub>4</sub> + KI + acid	50
WS589-03	525/638	Total Iron Fe <sup>2+</sup> /Fe <sup>3+</sup> *, 0.02 to 5.00	TPTZ + PP	50
WS589-08	525	Manganese*, 0.03 to 1.5	PAN + cyanide	24
WS589-13	525	Nitrate (NO <sub>3</sub> )*, 0 to 45	Zinc reduction	50
WS589-18	525	Nitrite (NO <sub>2</sub> )*, 0.05 to 4.5	Chromotropic acid	50
WS589-23	525	pH, pH 6.2 to 8.4	Phenol red	100
WS589-28	638	pH (BT reagent)*, pH 5 to 9.5	Bromothymol blue + thymol blue	50
WS589-33	525/638	Phosphate*, 0.03 to 4	Molybdate method	50
WS589-38	525	Sulphate*, 1 to 150	Barium (ppt)	50
WS589-43	525	Sulphide*, 0.1 to 13	Nitroprusside	50
<b><u>Multiparameter</u></b>				
WS589-85	525	Bromine (DPD-1) / 0 to 14.00	DPD	100
		Free Chlorine (DPD-1) / 0 to 11.0	DPD	
		Chlorine dioxide (DPD-1) / 0.03 to 6.5	DPD	
		Iodine (DPD-1)* / 0.01 to 11.9	DPD	
		Permanganate (DPD-1) / 0.01 to 4.5	DPD	
WS589-90	525	Total Chlorine (DPD-4) / 0 to 11.0	DPD + KI	50
		HR Hydrogen Peroxide* / 0 to 2100	DPD + KI	
		Ozone (DPD-4) / 0 to 11.0	DPD + KI	
		Peracetic acid (PAA) / 0 to 4	DPD + KI	

\*Utilise a transmission function, requiring a conversion table supplied

\*\*Requires Free Chlorine DPD-1 test WS587-34 to be run beforehand.

***T H E E N D***

**PRICES FOR NEW ITEMS**

Page 15 of 18 Pages

June 2012

CAT. NO.	PRICE £	Per	CODE
CK565-10	114.00	pack	OO
CK565-25	102.00	pack	OO
CK567-10	114.00	pack	OO
CK567-25	102.00	pack	OO
CK572-60	299.00	pack	OO
CK572-75	388.00	pack	OO
CK580-30	182.00	pack	OO
CK580-45	166.00	pack	OO
CK580-60	130.00	pack	OO
CK585-10	168.00	pack	OO
CK585-20	112.00	pack	OO
CK585-30	182.00	pack	OO
CK585-50	166.00	pack	OO
CK585-60	130.00	pack	OO
CK586-25	3.85	pack	OO
DK224-10	138.25	each	RG
DK224-20	138.25	each	RG
DK224-30	138.25	each	RG
DK224-40	181.75	each	RG
DK224-50	199.10	each	RG
DK224-60	277.50	each	RG
FU502-15	126.75	each	AO
FU502-25	131.00	each	AO
FU502-35	142.80	each	AO
FU502-45	179.00	each	AO
FZ510-04	38.50	each	EO
FZ510-08	38.50	each	EO
FZ510-12	38.50	each	EO
FZ510-16	38.50	each	EO
FZ512-04	38.50	each	EO
FZ512-08	38.50	each	EO
FZ512-12	38.50	each	EO
FZ512-16	38.50	each	EO
HT802-20	30.00	pack	RO
	16.15	pack per 10	
HT802-40	30.00	pack	RO
	16.15	pack per 10	
HT802-60	30.00	pack	RO
	16.15	pack per 9	

**PRICES FOR NEW ITEMS**

Page 16 of 18 Pages

<b>HT808-15</b>	<b>30.00</b>	<b>pack</b>	<b>RO</b>
	<b>16.15</b>	<b>pack per 10</b>	
<b>HT808-25</b>	<b>30.00</b>	<b>pack</b>	<b>RO</b>
	<b>16.15</b>	<b>pack per 10</b>	
<b>HT808-35</b>	<b>30.00</b>	<b>pack</b>	<b>RO</b>
	<b>16.15</b>	<b>pack per 10</b>	
<b>HT808-45</b>	<b>30.00</b>	<b>pack</b>	<b>RO</b>
	<b>16.15</b>	<b>pack per 10</b>	
<b>IC360-14</b>	<b>3596.00</b>	<b>each</b>	<b>EO</b>
<b>PR240-10</b>	<b>101.30</b>	<b>each</b>	<b>RG</b>
<b>PR240-20</b>	<b>101.30</b>	<b>each</b>	<b>RG</b>
<b>PR240-25</b>	<b>101.30</b>	<b>each</b>	<b>RG</b>
<b>PR240-30</b>	<b>101.30</b>	<b>each</b>	<b>RG</b>
<b>PR240-40</b>	<b>101.30</b>	<b>each</b>	<b>RG</b>
<b>PR240-50</b>	<b>101.30</b>	<b>each</b>	<b>RG</b>
<b>PR240-70</b>	<b>101.30</b>	<b>each</b>	<b>RG</b>
<b>PR240-80</b>	<b>113.90</b>	<b>each</b>	<b>RG</b>
<b>PR240-90</b>	<b>113.90</b>	<b>each</b>	<b>RG</b>
<b>PR245-02</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-05</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-08</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-12</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-16</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-20</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-28</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-32</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-36</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-40</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-48</b>	<b>55.70</b>	<b>each</b>	<b>RG</b>
<b>PR245-50</b>	<b>68.30</b>	<b>each</b>	<b>RG</b>
<b>PR245-55</b>	<b>68.30</b>	<b>each</b>	<b>RG</b>
<b>PR245-60</b>	<b>68.30</b>	<b>each</b>	<b>RG</b>
<b>PR248-05</b>	<b>253.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-10</b>	<b>253.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-15</b>	<b>253.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-20</b>	<b>253.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-25</b>	<b>253.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-30</b>	<b>253.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-65</b>	<b>367.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-65</b>	<b>367.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-70</b>	<b>367.20</b>	<b>each</b>	<b>RG</b>



**PRICES FOR NEW ITEMS**

Page 17 of 18 Pages

<b>PR248-75</b>	<b>367.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-80</b>	<b>367.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-85</b>	<b>367.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-90</b>	<b>367.20</b>	<b>each</b>	<b>RG</b>
<b>PR248-95</b>	<b>50.60</b>	<b>each</b>	<b>RG</b>
<b>SJ372-80</b>	<b>5750.00</b>	<b>each</b>	<b>KJ</b>
<b>SJ373-20</b>	<b>70.00</b>	<b>pack</b>	<b>KJ</b>
<b>SJ373-25</b>	<b>3200.00</b>	<b>each</b>	<b>KJ</b>
<b>SS310-15</b>	<b>85.00</b>	<b>each</b>	<b>OS</b>
<b>SS310-25</b>	<b>85.00</b>	<b>each</b>	<b>OS</b>
<b>SS310-35</b>	<b>85.00</b>	<b>each</b>	<b>OS</b>
<b>WS580-10</b>	<b>71.85</b>	<b>pack</b>	<b>FO</b>
<b>WS585-20</b>	<b>179.99</b>	<b>each</b>	<b>FO</b>
<b>WS585-40</b>	<b>189.99</b>	<b>each`</b>	<b>FO</b>
<b>WS585-85</b>	<b>39.99</b>	<b>each</b>	<b>FO</b>
<b>WS587-04</b>	<b>9.99</b>	<b>pack</b>	<b>RO</b>
	<b>7.99</b>	<b>pack per 12</b>	
<b>WS587-19</b>	<b>12.99</b>	<b>pack</b>	<b>RO</b>
	<b>10.39</b>	<b>pack per 12</b>	
<b>WS587-24</b>	<b>9.99</b>	<b>pack</b>	<b>RO</b>
	<b>7.99</b>	<b>pack per 12</b>	
<b>WS587-29</b>	<b>5.49</b>	<b>pack</b>	<b>RO</b>
	<b>4.39</b>	<b>pack per 12</b>	
<b>WS587-34</b>	<b>13.49</b>	<b>pack</b>	<b>RO</b>
	<b>10.79</b>	<b>pack per 12</b>	
<b>WS587-39</b>	<b>8.99</b>	<b>pack</b>	<b>RO</b>
	<b>7.19</b>	<b>pack per 12</b>	
<b>WS587-44</b>	<b>10.99</b>	<b>pack</b>	<b>RO</b>
	<b>8.79</b>	<b>pack per 12</b>	
<b>WS587-49</b>	<b>9.99</b>	<b>pack</b>	<b>RO</b>
	<b>7.99</b>	<b>pack per 12</b>	
<b>WS587-54</b>	<b>26.99</b>	<b>pack</b>	<b>RO</b>
	<b>21.59</b>	<b>pack per 12</b>	
<b>WS587-59</b>	<b>8.99</b>	<b>pack</b>	<b>RO</b>
	<b>7.19</b>	<b>pack per 12</b>	
<b>WS587-64</b>	<b>10.99</b>	<b>pack</b>	<b>RO</b>
	<b>8.79</b>	<b>pack per 12</b>	
<b>WS587-74</b>	<b>13.49</b>	<b>pack</b>	<b>RO</b>
	<b>10.79</b>	<b>pack per 12</b>	
<b>WS587-79</b>	<b>13.49</b>	<b>pack</b>	<b>RO</b>
	<b>10.79</b>	<b>pack per 12</b>	

**PRICES FOR NEW ITEMS**

Page 18 of 18 Pages

WS589-03	13.49	pack	RO
	10.79	pack per 12	
WS589-08	19.99	pack	RO
	15.99	pack per 12	
WS589-13	12.99	pack	RO
	10.39	pack per 12	
WS589-18	11.99	pack	RO
	9.59	pack per 12	
WS589-23	7.49	pack	RO
	5.99	pack per 12	
WS589-28	8.99	pack	RO
	7.19	pack per 12	
WS589-33	12.49	pack	RO
	9.99	pack per 12	
WS589-38	8.99	pack	RO
	7.19	pack per 12	
WS589-43	13.49	pack	RO
	10.79	pack per 12	
WS589-85	8.99	pack	RO
	7.19	pack per 12	
WS589-90	9.99	pack	RO
	7.99	pack per 12	
<b><i>T H E E N D</i></b>			