

**ELECTRONIC CATALOGUE
CUSTOMER'S AMENDMENTS**

ISSUE 5 — May 2012

Page 1 of 20 pages

<i>Amendment</i>
CANCELLATIONS
<p> BJ180-15 Cancelled, offer BJ180-18 + BJ180-95 BJ180-17 Cancelled, offer BJ180-18 BJ180-22 Cancelled, offer BJ180-28 + BJ180-95 BJ180-27 Cancelled, offer BJ180-28 BJ180-33 Cancelled, offer BJ180-37 + BJ180-95 BJ180-36 Cancelled, offer BJ180-37 BJ180-44 Cancelled, offer BJ180-49 + BJ180-95 BJ180-48 Cancelled, offer BJ180-49 </p> <p> BJ182-35 Cancelled, offer BJ182-36 BJ182-40 Cancelled, offer BJ182-41 BJ182-45 Cancelled, offer BJ182-46 BJ182-50 Cancelled, offer BJ182-51 BJ182-55 Cancelled, offer BJ182-56 </p> <p> BJ185-49 Cancelled, offer BJ185-48 BJ185-52 Cancelled, offer BJ185-51 BJ185-54 Cancelled, offer BJ185-53 BJ185-56 Cancelled, offer BJ185-55 BJ185-58 Cancelled, offer BJ185-57 BJ185-61 Cancelled, offer BJ185-60 BJ185-64 Cancelled, offer BJ185-63 BJ185-65 Cancelled, offer BJ185-66 BJ185-68 Cancelled, offer BJ185-67 BJ185-69 Cancelled, offer BJ185-70 BJ185-71 Cancelled, offer BJ185-72 BJ185-74 Cancelled, offer BJ185-73 BJ185-75 Cancelled, offer BJ185-76 BJ185-77 Cancelled, offer BJ185-78 BJ185-79 Cancelled, offer BJ185-80 BJ185-81 Cancelled, offer BJ185-82 </p>
<p> BJ186-05 Cancelled, offer BJ186-06 BJ186-10 Cancelled, offer BJ186-11 BJ186-15 Cancelled, offer BJ186-16 BJ186-20 Cancelled, offer BJ186-21 BJ186-25 Cancelled, offer BJ186-26 BJ186-30 Cancelled, offer BJ186-31 BJ186-35 Cancelled, offer BJ186-36 BJ186-40 Cancelled, offer BJ186-41 BJ186-45 Cancelled, offer BJ186-46 BJ186-50 Cancelled, offer BJ186-51 BJ186-55 Cancelled, offer BJ186-56 BJ186-60 Cancelled, offer BJ186-61 BJ186-67 Cancelled, offer BJ186-68 BJ186-70 Cancelled, offer BJ186-71 BJ186-75 Cancelled, offer BJ186-76 BJ186-80 Cancelled, offer BJ186-81 </p> <p> BJ187-68 Cancelled, no replacement BJ187-70 Cancelled, no replacement BJ187-74 Cancelled, no replacement BJ187-76 Cancelled, no replacement </p>

NEW ITEMS

Optima Series Thermostatic Controllers

Digital model, T100

Generally as previous BJ180-15/-17 but with revised internal electronics, housing, and fascia. Supplied without clamp. For 230V 50/60Hz single phase supplies.

BJ180-18 T100

Digital model, TC120

Generally as previous BJ180-22/-27 but with revised internal electronics, housing, and fascia. Supplied without clamp. For 230V 50Hz single phase supplies.

BJ180-28 TC120

Programmable model, TX150

Generally as previous BJ180-33/-36 but with revised internal electronics, housing, and fascia, full colour QVGA TFT screen which displays actual and set temperatures, pump speed, status icons and fitted with USB interface. For 230V 50Hz single phase supplies.

BJ180-37 TX150

Programmable model, TXF200

Generally as previous BJ180-44/-48 but with revised internal electronics, housing and fascia, full colour QVGA TFT screen which displays actual and set temperatures, pump speed and status icons, memory storage of 10 programmes each of up to 100 segments and fitted with USB interface. For 230V 50/60Hz single phase supplies.

BJ180-49 TXF200

BJ180-95 Clamp, for use with BJ180-series to enable attachment of thermostatic controllers to alternative models/makes of bath

Tanks for Optima controllers

P-series tanks BJ182-05/-10/-15 are unchanged.

ST-series tanks

Generally as previous S-series stainless steel tanks but now supplied with revised housings of glass-reinforced plastic and fitted with recessed drain tap for convenient emptying (except 5 litre size).

BJ182-36 Tank only, 5 litres ST5
BJ182-41 Tank only, 12 litres, ST12
BJ182-46 Tank only, 18 litres, ST18
BJ182-51 Tank only, 26 litres, ST26
BJ182-56 Tank only, 38 litres, ST38

Optima Series Thermostatic Baths

Complete units including plastic or stainless steel tank, bridge mounting plate and controller. Please refer to controller specifications for supply requirements. Accessory cooling as appropriate is required at low temperature. Accessory polypropylene spheres or a lid should be used at temperatures between +60 and 100°C. Above 100°C only a lid must be used.

	Ref.	Tank cap. litres	Tank material	Temp. range °C	
	BJ185-48	T100-P5	5	P	ambient +5 to +99
	BJ185-51	T100-P12	12	P	ambient +5 to +99
	BJ185-53	T100-P18	18	P	ambient +5 to +99
	BJ185-55	T100-ST5	5	S	0 to +100
	BJ185-57	T100-ST12	12	S	0 to +100
	BJ185-60	T100-ST18	18	S	0 to +100
	BJ185-63	T100-ST26	26	S	0 to +100
	BJ185-66	T100-ST38	38	S	0 to +100
	BJ185-67	TC120-P5	5	P	ambient +5 to +99
	BJ185-70	TC120-P12	12	P	ambient +5 to +99
	BJ185-72	TC120-P18	18	P	ambient +5 to +99
	BJ185-73	TC120-ST5	5	S	0 to +120
	BJ185-76	TC120-ST12	12	S	0 to +120
	BJ185-78	TC120-ST18	18	S	0 to +120
	BJ185-80	TC120-ST26	26	S	-15 to +120
	BJ185-82	TC120-ST38	38	S	-15 to +120

*P = plastic, S = stainless steel

	Ref.	Tank cap. litres	Tank material	Temp. range °C	
	BJ186-06	TX150-P5	5	P	ambient +5 to +99
	BJ186-11	TX150-P12	12	P	ambient +5 to +99
	BJ186-16	TX150-P18	18	P	ambient +5 to +99
	BJ186-21	TX150-ST5	5	S	0 to +150
	BJ186-26	TX150-ST12	12	S	0 to +150
	BJ186-31	TX150-ST18	18	S	0 to +150
	BJ186-36	TX150-ST26	26	S	-15 to +150
	BJ186-41	TX150-ST38	38	S	-15 to +150
	BJ186-46	TXF200-P5	5	P	ambient +5 to +99
	BJ186-51	TXF200-P12	12	P	ambient +5 to +99
	BJ186-56	TXF200-P18	18	P	ambient +5 to +99
	BJ186-61	TXF200-ST5	5	S	0 to +200
	BJ186-68	TXF200-ST12	12	S	0 to +200
	BJ186-71	TXF200-ST18	18	S	0 to +200
	BJ186-76	TXF200-ST26	26	S	-15 to +200
	BJ186-81	TXF200-ST38	38	S	-15 to +200

*P = plastic, S = stainless steel

Lids for stainless steel tanks only (plastic tank lids are unchanged)

	Ref.	For baths	Type
BJ187-67	STL5	ST5	Flat
BJ187-71	STL12	ST12	Gabled
BJ187-73	STL26	ST18/ST26	Gabled
BJ187-77	STL38	ST38	Gabled

Remote Temperature Probes

Pt1000 external temperature probes for use with TX150 and TXF200 thermostatic controllers in remote heating/cooling applications. With 3 metres of cable.

BJ242-20 TXPEP, fast response, nylon. 100mm x 4.5mm L x dia.

BJ242-25 TXSEP, robust, stainless steel. 125mm x 5mm L x dia.

All other accessories are unchanged.

CANCELLATIONS

BR754-44 Cancelled, no replacement

BR754-52 Cancelled, no replacement

BR754-82 Cancelled, no replacement

BR754-92 Cancelled, no replacement

AMENDMENT

BR937-55 is now 30 litres capacity.

All other details remain unchanged.

CANCELLATIONS

BT595-10 Cancelled, no replacement

BT595-30 Cancelled, no replacement

CANCELLATIONS

CK315-05 Cancelled, offer CK318-05
 CK315-10 Cancelled, offer CK318-45
 CK315-20 Cancelled, offer CK318-55
 CK315-30 Cancelled, offer CK318-65
 CK317-02 Cancelled, offer CK318-02
 CK317-05 Cancelled, offer CK318-31

CK402-10 Cancelled, offer CK318-41
 CK402-14 Cancelled, offer CK318-31
 CK402-26 Cancelled, offer CK318-52
 CK402-65 Cancelled, offer CK318-41
 CK402-85 Cancelled, offer CK318-55
 CK402-90 Cancelled, offer CK318-65
 CK402-95 Cancelled, no replacement

NEW ITEMS

HPLC Columns

Macherey-Nagel

Nucleodur[®] C₁₈ gravity Media

High purity silica phase for analytical HPLC. Suitable for LC/MS and HPLC at extreme pH (range pH 1 to 11) with superior base deactivation.

Packing: high-density octadecyl modification, pore size 110Å, particle size: 5µm.
 Carbon content: 18%.

Column i.d.: 4.6mm.

With compression screw HPLC fittings. Supplied singly.

	Particle size, µm	Column length, mm
CK318-02	5	100
CK318-05	5	250

Nucleodur[®] C₈ ec Media

EC standard columns with standard RP phase silica for routine analysis and upscaling for preparative HPLC. Offers pH stability (pH 1 to 9) and high lot-to-lot reproducibility.

Packing: medium-density octyl modification, pore size 110Å, particle size: 5µm.
 Carbon content: 10.5%.

Column i.d.: 4.6mm

With compression screw HPLC fittings. Supplied singly.

	Particle size, µm	Column length, mm
CK318-31	5	125

Nucleodur® C₁₈ ec Media

Ideal, reliable, standard RP phase silica for routine analysis and upscaling for preparative HPLC. Offer pH stability (pH 1 to 9) and lot to lot reproducibility.

Packing: medium-density octadecyl modification, pore size 110Å, particle size: 5 or 10µm. Carbon content: 17.5%.

Column i.d.: 4.6mm.

With compression screw HPLC fittings. Supplied singly.

	Particle size, µm	Column length, mm
CK318-41	5	125
CK318-42	5	250
CK318-45	10	250

Nucleosil® SB Media

EC standard columns with quarternary ammonium modified silica HPLC phase with strongly basic anion exchanger (SAX). Offers pH stability of pH 2 to 8.

Packing: pore size 100Å, particle size: 5/10µm. Carbon content: 10%.

Column i.d.: 4.6mm

With compression screw HPLC fittings. Supplied singly.

	Particle size, µm	Column length, mm
CK318-51	5	100
CK318-52	5	125
CK318-55	10	250

Nucleosil® SA Media

EC standard columns with sulphonic acid modified silica phase for HPLC with strongly acidic cation exchanger (SCX). Offers pH stability of pH 2 to 8.

Packing: pore size 100Å, particle size: 10µm. Carbon content: 6.5%.

Column i.d.: 4.6mm

With compression screw HPLC fittings. Supplied singly.

	Particle size, µm	Column length, mm
CK318-65	10	250

CANCELLATIONS

CK324-10 Cancelled, no replacement
 CK324-20 Cancelled, no replacement
 CK324-25 Cancelled, no replacement
 CK324-45 Cancelled, no replacement
 CK324-55 Cancelled, no replacement
 CK324-60 Cancelled, no replacement
 CK324-65 Cancelled, no replacement
 CK324-67 Cancelled, no replacement
 CK324-70 Cancelled, no replacement

NEW ITEMS

Column Packing

Macherey-Nagel

For column packing/re-packing by the user. Supplied in packs as indicated.

Phase media type	Pack size	Particle size,	
		5µm	10µm
Nucleodur [®] C18 ec	100g	—	CK320-25
Nucleosil [®] SB (SAX)	10g	CK320-35	CK320-40
Nucleosil [®] SA (SCX)	10g	CK320-60	CK320-65

NEW ITEMS

Conductivity Meters

LAQUA DS-series

Horiba

- Model DS-71: Benchtop conductivity/resistivity/salinity/TDS meter for routine laboratory analysis.**
 - Large, custom, backlit LCD and membrane keypad operation
 - 999 reading memory
- Model DS-72: High specification conductivity/resistivity/salinity/TDS meter with touchscreen operation, colour LCD readout, numeric, graphical or analogue display selectable, USP/EP/JP/CP standards support, analogue USB printer/PC and flash memory extension outputs.**
 - 2000 reading memory
 - GLP function and validation facility with on-board operator navigation and guidance
 - Multiple operating languages: Japanese, English, Chinese, Korean
- Automatic temperature compensation**

- Simultaneous reading and temperature display
- Supplied with probe stand and 360° rotating, swing-arm clamp

Catalogue No.	CU662-20	CU662-40
Model	DS-71	DS-72
Ranges (resolution)		
Conductivity,	K = 0.1 0.0µS to 1.999S — both models K = 1 0.000mS to 119.99S — both models K = 10 0.00mS to 199.9S — both models	0.01mg/l to 1000g/l (0.01mg/l) (0.01mg/l)
TDS		
Resistivity,	K = 0.1 0 to 1.999MΩ (0.0001 MΩ) — both models K = 1 0 to 19.99kΩ (0.01kΩ) — both models K = 10 0 to 199.9kΩ (0.1kΩ) — both models	
Salinity		
Temperature, Display	ATC 0 to 100.0°C (0.1°C) — both models -30 to 130.0°C (0.1°C) — both models	
Accuracy		
Conductivity	±0.5% ±1 digit of F.S. — both models	
Resistivity	±0.5% ±1 digit of F.S. — both models	
Temperature	±0.1°C ±1 digit	
Calibration	1 point on standard solutions — both models	
Memory	999 readings	2000 readings
Display	Monochrome, backlit LCD	Colour graphics LCD
Outputs	USB/RS232 printer ports	Analogue output, USB/RS232 printer PC, USB flash drive memory expansion port
Dimensions W x D x H	mm 170 x 174 x 73 — both models	
Weight	kg 0.5	0.7

Conductivity Meters, LAQUA DS-series

As described. Supplied with K = 1 conductivity probe, swing-arm probe holder, stand and a.c. adapter for 100-240V 50/60Hz single phase supplies.

CU662-20 DS-71

CU662-40 DS-72

Accessories and Spares

CU662-72 Accessory K = 0.1 conductivity probe

CU662-75 Spare K = 1 conductivity probe

CU662-79 Accessory K = 10 conductivity probe

CU662-81 USB cable to connect meter to the user's PC

CU662-83 Impact printer, 230V 50/60Hz, requires CU662-89 for connection to meter

CU662-86 Printer paper rolls, pack of 20

CU662-88 Ink ribbons, pack of 5

CU662-89 Printer cable to connect CU662-83 to meters. 1.5m long.

CANCELLATION

CP145-06 Cancelled, special order only

AMENDMENT

EL402-22 is now supplied in a pack of 100, not a pack of 25 as stated in the catalogue.

All other details remain unchanged.

REINSTATEMENT

**FC282-03 Nucleopore membrane circles, 25mm dia.,
0.03µm porosity, pack of 10**

CANCELLATIONS

FD240-10 Cancelled, special order only

FD240-13 Cancelled, special order only

CANCELLATION

FD323-15 Cancelled, no replacement

CANCELLATIONS

IN104-10 Cancelled, offer IN104-15 to -30

IN104-65 Cancelled, special order only

IN104-80 Cancelled, special order only

NEW ITEMS

Personal Shaking Incubators, PHMT-series, Grant

Generally as previous PHMT-series, but now supplied with fitted single blocks for microcentrifuge tubes, as indicated. With power adapter and blocks.

IN104-15 20 x 1.5ml

IN104-20 20 x 0.5ml/12 x 1.5ml

IN104-25 20 x 1.5/2.0ml

IN104-30 24 x 1.5/2.0ml

All other details remain unchanged.

Accessory/spare blocks are available - details on request.

NEW ITEM

Sealing covers for MN340-15, 96 x 0.5ml well microplates, pack of 50.

MN340-95 for 0.5 ml well plates, pack of 50

NEW ITEMS

pH Meters

LAQUA F-series

Horiba

High specification range of benchtop pH/mV or ion meters for routine laboratory measurements.

□ Choice of models:

- **F-71: single channel pH/ORP/Ion meter with large, backlit monochrome, custom LCD, 999 reading memory, membrane keypad operation**
- **F-72: single channel pH/ORP/Ion meter with touchscreen operation, digital graphical or analogue display output selectable, colour LCD readout, analogue USB printer/PC and flash memory external outputs, 2000 reading memory and easy menu navigation. Multi-language display in Japanese, English, Chinese and Korean**

— F-73: generally as F-72 but with two channel inputs allowing two readings or separate tests to be run and displayed simultaneously

- Simultaneous reading and temperature display
- Supplied with probe stand and 360° rotating, swing-arm clamp

Catalogue No.	PJ290-10	PJ290-15	PJ290-25
Model	F-71	F-72	F-73
Parameters	Channel 1 pH, ORP Channel 2 —	pH, ORP, Ion —	pH, ORP, Ion pH, ORP, Ion
Ranges (resolution)	pH 0 to 14.000 (0.001) mV (ORP) -1999.9 to +1999.9 (0.1) — all models Ion conc. — °C -30.0 to +130.0 (0.1) — all models	0 to 14.000 (0.01/0.001) — both models — 0.00mg/l to 999g/l (3 digits) — both models	— both models
Accuracy	pH ±0.005 ±1 digit mV (ORP) ±0.1 ±1 digit — all models Ion conc. — °C ±0.1°C ±1 digit — all models	±0.001 ±1 digit — ±0.5% ±1 digit of full scale — both models	±0.005 ±1 digit
Temp. compensation	°C 0 to 100.0 — all models	—	—
Autocalibration	pH 1 point Ion conc. —	up to 5 point — both models up to 5 point — both models	—
Outputs	—	—	Analogue output, USB and RS232 printer/PC, USB flash drive memory expansion port — both models
Memory	—	999 readings	2000 readings — both models
Overall W x D x H	mm 170 x 174 x 73 — all models	—	—
Weight	kg 0.5	—	0.7 — both models

pH Meters, LAQUA, Horiba

As described. Supplied with swing-arm probe holder, stand and a.c. adapter for 100-240V 50/60Hz single phase supplies. Without probes.

PJ290-10 F-71
PJ290-15 F-72
PJ290-25 F-73

Accessories

PJ294-08 3-in-1 pH electrode, plastic bodied, waterproof

ToupH electrodes

Robustly constructed, toughened glass, 3-in-1 electrodes with rapid response membrane and increased stability reference system. Waterproof.

	Sample type	Operating range, °C	L x dia. mm
PJ294-12	General purpose	0 to 100	115 x 23
PJ294-16	High viscosity	0 to 60	120 x 8
PJ294-22	Micro, >50µl	0 to 60	102 x 3
PJ294-24	Deep	0 to 100	200 x 7

PJ294-30 3-in-1 ORP electrode, platinum

CU662-81 USB cable to connect meter to the user's PC
CU662-83 Impact printer, 230V 50/60Hz. Requires CU662-89 for connection to meter.
CU662-86 Printer paper rolls, pack of 20
CU662-88 Ink ribbons, pack of 5

CU662-89 Printer cable to connect CU662-83 to meters. 1.5m long.

CANCELLATIONS

PX700-60 Cancelled, offer PX712-15

PX700-65 Cancelled, offer PX712-15

PX705-60 Cancelled, offer PX712-15

PX705-80 Cancelled, offer PX712-15

NEW ITEMS

Peristaltic Pumps

Verderflex®

Model EV500

Compact, manual control pump with forward/reverse switch, fast prime button, rotary potentiometer speed control and two-roller, polycarbonate pumphead.

- Range 2 to 185ml/minute
- Accepts 1.6mm wall tubing up to 4.8mm bore
- Permanent magnet drive motor
- IP30 protection rating, chemical resistant, epoxy coated housing

Performance

<u>Tubing Bore, mm</u>	<u>Flow rate, ml/minute</u>
1.6	2 to 23
3.2	5 to 82
4.0	7 to 115
4.8	11 to 185

Peristaltic Pump EV500

As described. Overall 205 x 110 x 195mm W x D x H. Weight 1.7kg. For 110, 230V 50/60Hz single phase supplies.

PX710-10 EV500

Model EZ Programmable

Fully programmable, flexible-use pumps providing highly accurate and repeatable flow rates with quick, easy set-up from the on-board display and membrane keypad, or remotely via an RS232 interface for connection to the user's PC.

- Ranges: 0.8 to 1310ml/minute, 10 to 250rpm
- Accepts 1.6mm wall tubing up to 8.0mm bore
- Brushless d.c. motor for continuous operation
- Self-priming
- Reversible pumping
- Single or repeat dose compatibility with user defined interval

- Accuracy when pumping viscous products can be achieved using the calibration mode
- Run-back option prevents spillages
- Acetal and nylon pumphead with Nylatron rollers

Performance

<u>Tubing Bore, mm</u>	<u>Flow rate, ml/minute</u>
0.8	0.8 to 19.0
1.6	2.8 to 70.0
3.2	11.0 to 270.0
4.8	24.0 to 587.0
6.4	38.0 to 937.0
8.0	53.0 to 1312.0

Peristaltic Pump EZ Programmable

As described. Overall 291 x 252 x 168mm W x D x H. Weight 4.0kg. For 110, 230V 50/60Hz single phase supplies.

PX712-15 EZ programmable

CANCELLATION

QMD3/50 Cancelled, offer QMD4/50

CANCELLATION

QFC6/23A Cancelled, no replacement

NEW ITEM

Heavy Duty Laboratory Refrigerator, Liebherr

Generally as RG228-15 but with larger capacity, temperature range -5 to +15°C and R290 refrigerant.

RG228-40 LKpV8420, -5 to +15°C

Model	LKpV-		8420
Range		°C	-5 to +15
Capacity		Litres	856
Refrigerant			R290
External		H, mm	2150
		W, mm	790
		D, mm	980
Shelves supplied			5
Doors			1 x solid
Interior lighting			No
Energy consumption in 24 hours		kWh	2.4

CANCELLATION

TL660-60 Cancelled, offer TL660-85

NEW ITEM

Dual Timer, Countdown/Countup

Digital reading, 2 separate timing units with countup or countdown displays from 1 second to 99 hours 59 minutes and 59 seconds. LED visual and audible alarm (audible with 3 volume settings selectable). The case incorporates a combined bench stand/hanging clip with magnetic attachment. Requires 2 x 1.5V AAA batteries for operation (not supplied).

TL664-50 Dual timer

CANCELLATIONS

TT200-20 Cancelled, offer TT220-45

TT200-30 Cancelled, offer TT220-45

TT200-40 Cancelled, no replacement

NEW ITEMS

Trays, Instrument

White melamine resin. Autoclavable at 121°C for 15 minutes.

L x W x D, mm

TT220-25 240 x 180 x 20

TT220-35 300 x 150 x 20

TT220-45 360 x 240 x 20

TT220-55 430 x 290 x 20

CANCELLATION

WR160-24 Cancelled, offer WR160-18

NEW ITEMS

Water Testing

Multiparameter Meters, LAQUA F-series

Horiba

- Model F-74BW: benchtop, 2-channel, multiparameter meter for routine laboratory analysis of pH, ORP, Ions, conductivity, resistivity, salinity and TDS**
 - Large, twin line, custom backlit LCD and membrane keypad operation
 - 999 reading memory
- Model F-74: high specification, 2-channel meter for pH, ORP, Ions, conductivity resistivity, salinity and TDS with touchscreen operation, colour LCD readout, numeric, graphical or analogue display selectable, USP/EP/JP/CP conductivity standards support, analogue, USB printer/PC and flash memory extension outputs**
 - 2000 reading memory
 - GLP function and validation facility with on-board operator navigation and guidance
 - Multiple operating languages: Japanese, English, Chinese, Korean
- Simultaneous reading and temperature display**
- Supplied with probe stand and 360° rotating, swing-arm clamp**

Catalogue No.	WR720-15	WR720-35
Model	F-74BW	F-74
Parameters	pH, ORP, Ion	pH, ORP, Ion
Channel 1		
Channel 2		
Ranges x resolution	Conductivity, resistivity, salinity, TDS	Conductivity, resistivity, salinity, TDS
(accuracy)	pH -2 to +19.999 x 0.001 ($\pm 0.05 \pm 1$ digit)	-2 to 20.000 x 0.01/0.001 (+0.001 +1 digit)
	mV (ORP) -1999.9 to +1999.9 x 0.1 ($\pm 0.1 \pm 1$ digit) — both models	
	Ion conc. 0.00mg/l to 999g/l x 3 digits ($\pm 0.5\% \pm 1$ digit) — both models	
Conductivity,	K = 0.1 0.0µS to 1.999S x 0.0001 ($\pm 0.5\% \pm 1$ digit) — both models	
	K = 1 0.000µS to 19.99S x 0.001 ($\pm 0.5\% \pm 1$ digit) — both models	
	K = 10 0.00µS to 199.9S x 0.01 ($\pm 0.5\% \pm 1$ digit) — both models	
Resistivity,	K = 0.1 0 to 1.999MΩ x 0.0001 ($\pm 0.5\% \pm 1$ digit) — both models	
	K = 1 0 to 19.99kΩ x 0.001 ($\pm 0.5\% \pm 1$ digit) — both models	
	K = 10 0 to 199.9kΩ x 0.1 ($\pm 0.5\% \pm 1$ digit) — both models	
Salinity	0 to 80.00ppt x 0.01 ($\pm 0.5\% \pm 1$ digit) — both models	
Temperature,	TDS 0.01mg/l to 100g/l x 0.01mg/l ($\pm 0.5\% \pm 1$ digit) — both models	
	ATC 0 to 100.0°C x 0.1 ($\pm 0.1\% \pm 1$ digit) — both models	
	Display -30 to 130.0°C x 0.1 ($\pm 0.1\% \pm 1$ digit) — both models	
Autocalibration	pH/Ion Up to 5 point — both models	
Memory	999 readings	2000 readings
Display	Monochrome, backlit LCD	Colour graphics LCD
Outputs	USB/RS232 printer	Analogue output, USB/RS232 printer PC USB flash drive memory expansion port
Dimensions W x D x H	mm 170 x 174 x 73 — both models	
Weight	kg 0.5	0.7

Multiparameter Meters, LAQUA F-series

As described. Supplied with swing-arm probe holder, stand and a.c. adapter for 100-240V single phase supplies.

WR720-15 F-74BW

WR720-35 F-74

Accessories

PJ294-08 3-in-1 pH electrode, plastic bodied, waterproof

ToupeH electrodes

Robustly constructed, toughened glass, 3-in-1 electrodes with rapid response membrane and increased stability reference system. Waterproof.

	Sample type	Operating range, °C	L x dia. mm
PJ294-12	General purpose	0 to 100	115 x 23
PJ294-16	High viscosity samples	0 to 60	120 x 8
PJ294-22	Micro, >50µl	0 to 60	102 x 3
PJ294-24	Deep	0 to 100	200 x 7

CU662-72 Accessory K = 0.1 conductivity probe

CU662-75 Spare K = 1 conductivity probe

CU662-79 Accessory K = 10 conductivity probe

PJ294-30 3-in-1 ORP electrode, platinum

CU662-81 USB cable to connect meter to the user's PC

CU662-83 Impact printer, 230V 50/60Hz. Requires CU662-89 for connection to meter

CU662-86 Printer paper rolls, pack of 20

CU662-88 Ink ribbons, pack of 5

CU662-89 Printer cable to connect CU603-83 to meter. 1.5m long.

AMENDMENTS

WS890-62 is now Hanna HI-96717

WS890-72 is now Hanna HI-96731

All other details remain unchanged.

T H E E N D

PRICES FOR NEW ITEMS

Page 18 of 20 Pages

May 2012

CAT. NO.	PRICE £	Per	CODE
BJ180-18	599.00	each	OA
BJ180-28	650.00	each	OA
BJ180-37	950.00	each	OA
BJ180-49	1200.00	each	OA
BJ180-95	40.00	each	OA
BJ182-36	190.00	each	OA
BJ182-41	345.00	each	OA
BJ182-46	375.00	each	OA
BJ182-51	425.00	each	OA
BJ182-56	740.00	each	OA
BJ185-48	689.00	each	OA
BJ185-51	694.00	each	OA
BJ185-53	714.00	each	OA
BJ185-55	749.00	each	OA
BJ185-57	904.00	each	OA
BJ185-60	934.00	each	OA
BJ185-63	984.00	each	OA
BJ185-66	1299.00	each	OA
BJ185-67	780.00	each	OA
BJ185-70	785.00	each	OA
BJ185-72	805.00	each	OA
BJ185-73	840.00	each	OA
BJ185-76	995.00	each	OA
BJ185-78	1025.00	each	OA
BJ185-80	1075.00	each	OA
BJ185-82	1390.00	each	OA
BJ186-06	1080.00	each	OA
BJ186-11	1085.00	each	OA
BJ186-16	1105.00	each	OA
BJ186-21	1140.00	each	OA
BJ186-26	1295.00	each	OA
BJ186-31	1325.00	each	OA
BJ186-36	1375.00	each	OA
BJ186-41	1690.00	each	OA
BJ186-46	1330.00	each	OA
BJ186-51	1335.00	each	OA
BJ186-56	1355.00	each	OA
BJ186-61	1390.00	each	OA
BJ186-68	1545.00	each	OA
BJ186-71	1575.00	each	OA

PRICES FOR NEW ITEMS

Page 19 of 20 Pages

BJ186-76	1625.00	each	OA
BJ186-81	1940.00	each	OA
BJ187-67	50.00	each	OA
BJ187-71	175.00	each	OA
BJ187-76	215.00	each	OA
BJ187-77	320.00	each	OA
BJ242-20	110.00	each	OA
BJ242-25	115.00	each	OA
CK318-02	540.00	each	OO
CK318-05	595.00	each	OO
CK318-31	320.00	each	OO
CK318-41	320.00	each	OO
CK318-42	390.00	each	OO
CK318-45	390.00	each	OO
CK318-51	320.00	each	OO
CK318-52	320.00	each	OO
CK318-55	390.00	each	OO
CK318-65	390.00	each	OO
CK320-25	3370.00	pack	OO
CK320-35	1145.00	pack	OO
CK320-40	1145.00	pack	OO
CK320-60	858.00	pack	OO
CK320-65	858.00	pack	OO
CU662-20	860.00	each	BO
CU662-40	1440.00	each	BO
CU662-72	295.00	each	BO
CU662-75	275.00	each	BO
CU662-79	300.00	each	BO
CU662-81	29.00	each	BO
CU662-83	395.00	each	BO
CU662-86	65.00	pack	BO
CU662-88	49.00	pack	BO
CU662-89	26.50	each	BO
FC282-03	79.60	pack	WN
IN104-15	1085.00	each	OA
IN104-20	1085.00	each	OA
IN104-25	1085.00	each	OA
IN104-30	1085.00	each	OA
MN340-95	175.00	pack	RO
PJ290-10	340.00	each	BO
PJ290-15	690.00	each	BO

PRICES FOR NEW ITEMS

Page 20 of 20 Pages

PJ290-25	850.00	each	BO
PJ294-08	105.00	each	BO
PJ294-12	130.00	each	BO
PJ294-16	200.00	each	BO
PJ294-22	230.00	each	BO
PJ294-24	240.00	each	BO
PJ294-30	140.00	each	BO
PX710-10	492.00	each	BO
PX712-15	1285.00	each	BO
RG228-40	4155.00	each	BO
TL664-50	16.90	each	AO
TT220-25	6.70	each	AO
TT220-35	8.05	each	AO
TT220-45	12.50	each	AO
TT220-55	20.95	each	AO
WR720-15	440.00	each	BO
WR720-35	1250.00	each	BO
<i>T H E E N D</i>			