



# Laboratory Equipment

**Catalogue 2009/10**

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## Contents

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## About Us

### LabPro is the general laboratory equipment supply division of European Instruments Ltd.

Established in 1972, European Instruments has had over 37 years experience of delivering precision technical solutions to the laboratory market.

Specifying the correct solution for your application is our principle aim.

We offer complete sales support on all products we supply:

- Advise on choosing the correct equipment for your application
- Complete after sales support – should you have any queries after your purchase we are

here to provide you with complete back up and support service

- Warranty support
- Free technical support for the lifetime of the product

Should you wish to discuss your application with someone please contact our sales department on 01865 307204 (or via the web) and we will put you in touch with our technical specialist, who will be pleased to visit you at your premises.

Our headquarters are based in Oxford. Should you wish to visit us you would be more than welcome.

## Contact Us

**By email :** [sales@LabPro.co.uk](mailto:sales@LabPro.co.uk)

**By phone :** 01865 307240

**By Fax :** 01865 769985

### Post:

LabPro, European Instruments, Shotover Kilns,  
Old Road, Headington, Oxford, OX3 8ST

## More Info

[www.LabPro.co.uk](http://www.LabPro.co.uk)

## Your Engineer

Quote your engineers' reference number when making an enquiry and they will receive a bonus



Engineer Ref :

Specifications subject to change without notice E&OE

With washer-disinfectors, special reprocessing methods and accessories tailored to the specific needs of applications, Miele offers a comprehensive and systematic approach to the safe and thorough reprocessing of a wide range of laboratory glassware. Only a systematic approach can guarantee reproducible results in both simple and highly sophisticated applications in organic, inorganic and physical chemistry, biology, microbiology, in hospital laboratories, and in the pharmaceutical, food-processing and cosmetics industries.



### ME1101 washer-disinfector Guide Price: £5,457

- H 850 (820), W 600, D 600 mm
- MULTITRONIC Novo Plus controls with 10 programmes
- Convertible to single-phase connection
- Integrated dispenser pump for process chemicals (neutralising agent)
- Capacity per batch: 39 narrow-necked glasses or 116 pipettes or 1600 test tubes

### ME1102 washer-disinfector Guide Price: £6,491

- H 850 (820), W 600, D 600 mm
- MULTITRONIC Novo Plus controls with 10 programmes
- Integrated dispenser pump for process chemicals (neutralising agent)
- Drying Plus: Integrated hot-air drying
- Throughput per batch: 37 narrow-necked glasses or 96 pipettes or 1600 test tubes

### ME1103 washer-disinfector Guide Price: £7,641

- H 820 (850), W 900, D 700 mm
- MULTITRONIC Novo Plus controls with 10 programmes
- 2 integrated dispenser pumps for process chemicals (alkaline detergent/neutralising agent)
- Drawer with 2 supply containers, 5 l each
- Integrated hot-air drying unit
- Throughput per batch: 37 narrow-necked glasses or 96 pipettes or 1600 test tubes

#### Hygiene, safety, efficiency

- Thorough cleaning and disinfection in a closed-circuit system
- Reproducible results, validatable and qualifiable processes
- Glassware reprocessing for analytical experiments
- Thermal disinfection
- Connection option for liquid dispensing systems
- Extensive safety features in accordance with EN ISO 15883
- Main wash/rinse cycle optionally with fully demineralised water
- Process documentation interface (depends on model)

#### Washing Technology

- Hygienic freshwater system with fresh water intake for each programme stage
- Thorough cleaning of lumens with injector system
- 2 spray arms (third spray arm on upper basket) for thorough cleaning of laboratory glassware
- Direct docking of upper baskets to water circuit for maximum utilisation of wash liquor
- Optimum arrangement of spray nozzles and regulatable spray arm speed for best possible cleaning results

#### Standard Features

- Profi-Monobloc water softener; reactivation internalised into programme cycle with only low salt consumption; separate reactivation not required
- Integrated dispenser pump(s) for liquid product
- Powerful circulation pump, max. throughput 400 l/min
- Flowmeter to monitor water intake quantities
- 4-fold filtration system with surface filter, coarse filter, glass splinter filter and micro-fine filter.
- Efficient steam condenser

#### Safety Features

- Electrical door interlock
- 2 sensors, 1 each for temperature control and monitoring
- Programme safety cut out
- Port for simple positioning of sensors in the wash cabinet for machine or process validation
- Optical and acoustic signal at end of programme

Miele lab washers are available both as freestanding and built-under units.

All machines are complete with supply lead (without plug), and water inlet and drainage hoses.

**Baskets and inserts for laboratory glassware are configured individually please call for sales advice and prices**

Detailed Technical Specification @ [www.LabPro.co.uk](http://www.LabPro.co.uk).

Call for sales advice 01865 307240

For over 80 years, hospitals, universities, research institutes, clinics and laboratories throughout the world have trusted Tuttnauer's sterilisation and infection control products. Supplying a range of top-quality products to over 100 countries, Tuttnauer has earned global recognition as a leader in sterilisation and infection control



### Top Loading Vertical Sterilisers

With higher capacity and better performance, Tuttnauer's Laboratory line of vertical steam sterilizers provide safe, economical and effective sterilization.

#### These models are available in two versions:

Fully Automatic (A) - advanced microprocessor based control panel or Semi Automatic (M): manual control panel except TU1001 & TU1002

Model	Chamber Dimensions (Dia. x Depth mm)	Chamber volume (Litres)	External Dimensions (W x H x D mm)	Guide Price	
				Semi-Auto Version	Auto Version
TU1001	250 x 400	23	495 x 645 x 335	£4,300	£5,523
TU1002	310 x 500	40	580 x 780 x 410	-	£6,796
TU1003	310 x 700	55	580 x 960 x 415	-	£7,160
TU1004	380 x 490	62	650 x 745 x 500	£6,263	£7,732
TU1005	380 x 690	85	650 x 925 x 500	£6,878	£8,291
TU1006	500 x 500	110	880 x 780 x 700	£9,223	£10,960
TU1007	500 x 750	160	880 x 1010 x 700	£9,617	£11,292

### Upgrade Options

**Rapid Cool:** Rapid cooling via cooling water (compressed air necessary for this option)

**Advance Package:** • Rapid cooling via cooling water (compressed air needed) • Exhaust steam condensation • Integrated Printer • Air exhaust filtration for (hazardous) waste sterilization • Radial ventilator in chamber to improve rapid cooling system • Vacuum system with watering pump for pre- and post vacuum • Internal Steam Generator, 9kW



**AUTO**



**SEMI**

### Benchtop Sterilisers

Integrated reservoir for water feed, with water level control and steam re-circulation saves on demineralized water consumption and enables the autoclave to be independent of a water supply. External heating elements make the sterilizer easy to clean.

Model	Chamber Dimensions (Dia. x Depth mm)	Chamber volume (Litres)	External Dimensions (W x H x D mm)	Guide Price	
				Semi-Auto Version	Auto Version
TU2001	250 x 400	23	510 x 365 x 545	£2,930	£4,500
TU2002	310 x 500	40	600 x 450 x 695	-	£6,375
TU2003	380 x 490	62	660 x 525 x 695	£6,179	£7,400
TU2004	380 x 690	85	660 x 525 x 875	£6,722	£8,200
TU2005	500 x 500	110	880 x 700 x 767	£9,300	£10,745
TU2006	500 x 750	160	880 x 700 x 967	£9,722	£11,347

#### These models are available in two versions:

Fully Automatic (A) - advanced microprocessor based control panel or Semi Automatic (M): manual control panel except TU2002

### Upgrade Option

**Rapid Cool:** Rapid cooling via cooling water (compressed air necessary for this option)



Small Centrifuge



Hematocrit Centrifuge



Microlitre Centrifuge



Benchtop Centrifuge



Floor Standing Centrifuge

Model	Max Capacity Angular Rotation	Max Capacity Swing Out Rotation	RPM	RCF	Features / Options	Guide Price (exl Rotor)
<b>Small Centrifuges – EBA Range</b>						
HT1101	8 x 15ml	-	6,000	3,461	Capped & blood collection tubes Included 8 x 15ml Rotor	£971 inc. Rotor
HT1102	8 x 15ml	-	8,000	6,153	Capped & blood collection tubes Included 8 x 15ml Rotor	£1805 inc. Rotor
HT1103	6 x 50 ml	6 x 15 ml	18,000	25,718	Hematocrit rotor: 24 std capillaries	£2030

Small centrifuges are lightweight, compact devices which can be transported easily and which require little space. They help save energy when processing low sample quantities and are the solution of choice for medical practices and surgeries.

#### Hematocrit Centrifuges

HT1201	-	-	13,000	16,060	Hematocrit rotor: 24 std capillaries	£1,391
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Preparing blood for photometric determination of bilirubin content in plasma and centrifuging special capillaries for quantitative Buffy Coat Analysis are further areas of application for this special-purpose centrifuge

#### Microlitre Centrifuges – Mikro Range

HT1301	24 x 1.5 / 2 ml	-	14,000	17,530	12 place & 18 place rotor	£967
HT1302	30 x 1.5 / 2 ml	-	15,000	21,382	24 place rotor	£1,328
HT1303	30 x 1.5 / 2 ml	-	15,000	21,382	Refrigeration: -10°C to +40°C	£3,547
HT1304	48 x 1.5 / 2 ml	24 x 1.5 / 2 ml	18,000	31,514	Drum Rotor: 60 x 1.5 / 2 ml	£2,432
HT1305	48 x 1.5 / 2 ml	24 x 1.5 / 2 ml	18,000	31,514	Refrigeration: -20°C to +40°C	£4,473

Microlitre centrifuges are mainly used in molecular biology, microbiology and genetic research where high speeds are necessary to separate small-volume mixtures. For PCR tubes or PCR strips, suitable adapters and special rotors are available. Rotors whose lids are equipped with a bio-containment feature ensure maximum safety from dangerous aerosols.

#### Benchtop Centrifuges – Ranges Rotofix, Universal, Rotina, Rotanta

HT1401	6 x 85 ml	4 x 100 ml / 32 x 15 ml	6000	4,226		£1,684
HT1402	6 x 85 ml	4 x 100 ml / 32 x 15 ml	15,000	21,382	Hematocrit rotor: 24 std capillaries	£2,702
HT1403	6 x 85 ml	4 x 100 ml / 32 x 15 ml	15,000	21,382	As above Refrigeration: -20°C to +40°C	£5,129
HT1404	6 x 94 ml	4 x 290 ml	15,000	24,400	Rotas: Swing, Angular, Drum, Cyto	£3,665
HT1405	6 x 94 ml	4 x 290 ml	15,000	24,400	Refrigeration: -20°C to +40°C	£5,951
HT1406	4 x 250 ml	4 x 600 ml	15,000	24,400	Developed for large volumes	£4,272
HT1407	4 x 250 ml	4 x 600 ml	15,000	24,400	Refrigeration: -20°C to +40°C	£6,503
HT1408	6 x 250 ml	4 x 750 ml	15,000	24,400	Rota : 12 microtitre plates (90°), 24 micro litre plates	£5,192
HT1409	6 x 250 ml	4 x 750 ml	15,000	24,400	Refrigeration: -20°C to +40°C Option: Refrigeration + Heating	£7,687

These robust, durable machines can accommodate close to any type or size of centrifugation tube, with extensive range of rotas and accessories. They vary in capacity and performance levels and can address a wide range of requirements

**Floor Standing Centrifuges – Ranges Rotanta, Rotixa, Roto Silenta** Visit [www.LabPro.co.uk](http://www.LabPro.co.uk) for more information

\* Note Prices exclude rotor unless indicated



## Laboratory Cabinets

Interior housing and shelves are in stainless steel. Externally, the cabinets are constructed of electrolytically galvanized steel sheets, coated with a grey epoxy polyester paint (RAL 7035).

### These cabinets are available in two versions : Basic & Special

**Basic (B):** Recommended when operating with the same temperature throughout the whole process, and when a hard copy report is not needed.

**Special (S):** When more accurate regulation is required, and if different temperatures are to be programmed.

Model	Volume (litres)	External Dimensions (W x H x D mm)	Range °C (tb : 8°C above ambient)	Readability °C	Accuracy +/- °C	Guide Price Basic (B)	Guide Price Special (S)
TM1101	24	515 x 455 x 490	tb - 200 (250 basic model)	0.1	1	£927	£1,122
TM1102	56	595 x 550 x 580	tb - 200 (250 basic model)	0.1	1	£999	£1,194
TM1103	136	705 x 625 x 820	tb - 200 (250 basic model)	0.1	1	£1,449	£1,644
TM1104	265	830 x 730 x 1170	tb - 200 (250 basic model)	0.1	1	£2,268	£2,463
TM1105	430	830 x 730 x 1620	tb - 200 (250 basic model)	0.1	1	£2,599	£2,794

### Sterilizers / Laboratory Drying Ovens

TM1201	23	515 x 455 x 490	tb - 70	0.1	0.2	£967	£1,162
TM1202	54	595 x 550 x 580	tb - 70	0.1	0.2	£1,056	£1,251
TM1203	133	705 x 625 x 820	tb - 70	0.1	0.2	£1,536	£1,731
TM1204	260	830 x 730 x 1170	tb - 70	0.1	0.2	£2,098	£2,293
TM1205	420	830 x 730 x 1620	tb - 70	0.1	0.2	£2,499	£2,694

### Cooled incubators

These cabinets have been developed to meet the needs of reliability, accurate and safe control over the entire temperature range and low power consumption. Interior housing and shelves are in stainless steel. Externally, the cabinets are constructed of electrolytically galvanized steel sheets, coated with a grey epoxy polyester paint (RAL 7035).

Model	Volume (litres)	External Dimensions (W x H x D mm)	Range °C	Readability °C	Accuracy +/- °C	Guide Price
TM1301	182	680 x 580 x 1430	-9.9 - +70.0	0.1	0.1	£3,499
TM1302	400	830 x 720 x 1840	-9.9 - +70.0	0.1	0.1	£4,199
TM1303*	400	960 x 720 x 1840	-2.0 - +70.0	0.1	0.1	£8,299

\* The TM1303 is equipped with programmable light function

### Environmental Chambers

Complete climatic control : cooling, temperature, humidity & light

Model	Volume (litres)	External Dimensions (W x H x D mm)	Range °C	Readability °C	Accuracy +/- °C	Guide Price
TM1401	400	830 x 720 x 1840	-2.0 - +70.0	0.1	0.1	£9,599
TM1402	400	960 x 720 x 1840	-2.0 - +70.0	0.1	0.1	£13,199

### Humidity Control

Humidity Range: 1-99 %RH

Readability: 0.1%RH Variation: +/- 2%RH

### Light Control (TM1402)

Light intensity: 12000 Lux (middle) 25000 Lux (sides) Selectable Range : 3 -100%



Established 40 years ago, erlab® developed the first ductless filtering fume enclosure for the filtration of toxic chemicals. Since its creation, the company, a pioneer in its fields, has always had the know-how to offer the most efficient system in terms of filtration quality and filter life.

## ValiQuest® Your Route to Safety – A free validation service from LabPro

- Complete the investigation questionnaire which precisely describes your anticipated chemical handlings
- Our validation laboratory specialists will recommend the appropriate ductless filtering fume hood and filter type.
- Personalised advice and a precise solution within 48 hours.
- A approval certificate is supplied providing a real commitment of the manufacturer to operator protection.

## captair® flex™ Modular Design, Extreme Adaptability!

### Wide Range of models



Ref	Int. dimensions W x D x H mm	Ext. dimensions W x D x H mm
Sd 32	764 x 590 x 890	800 x 722 x 1355*
Sd 39	965 x 590 x 890	100 x 722 x 1335*
Sd 48	1240 x 590 x 890	1275 x 722 x 1335*
Sd 63	1566 x 590 x 890	1600 x 722 x 1335*

\* Max Height (min height 1146mm)  
Depends on filter combination



Ref	Int. dimensions W x D x H mm	Ext. dimensions W x D x H mm
XL 39	965 x 790 x 890	1000 x 914 x 1335*
XL 48	1240 X 790 x 890	1275 x 914 x 1335*
XL 63	1566 x 790 x 890	1600 x 914 x 1335*
XL 71	1765 x 790 x 890	1800 x 914 x 1335*

\* Max Height (min height 1146mm)  
Depends on filter combination

### Modularity of filtration columns

	Class 2 (NF X 15 - 211)	Class 1 (NF X 15 - 211)
Liquids	Activated carbon	Activated carbon
Liquids & solids	Activated carbon HEPA H14 FILTER	Activated carbon HEPA H14 FILTER
Solids	HEPA H14 FILTER	Filtration columns can also be configured for cleanroom environment

### Application Specific Filters

#### Chemical – Activated Carbon Filters

- AS** For use with organic vapors
- BE+** Polyvalent for organic and acid vapours
- F** For use with formaldehyde vapors
- K** For use with ammonia vapors

#### Powder – HEPA filter

- H14** For use in powder manipulations  
H14 Hepa Filter

### Other Containment Solutions:



Sterile workstation



Vented chemical storage cabinet



PCR workstations

Detailed Technical Specification @ [www.LabPro.co.uk](http://www.LabPro.co.uk).  
Call for sales advice 01865 307240



# Oxford

Research Range

During the past 20 years the Oxford Range has become established as leading brand for quality weighing instruments. Key to the success of this range has been the guiding principle to keep the range simple without compromising on what is really important - build quality and weighing performance

## Research

### The laboratory standard for weighing

When you application requires a simple, uncomplicated weighing instrument but with no compromise on quality

### Features

- Innovative **M Level** levelling system
- Backlit, high-contrast display with 15-mm digits
- RS232 Interface (USB Option)



## Research PLUS

### Outstanding weighing performance for critical processes

Using the very latest in 21st century weighing technology, a robotically etched monolithic weigh cell which has been designed and manufactured in Germany.

**Featuring i-Cal** : Error correction system. A peace of mind solution that ensures accurate weighing results time after time

### Features (in addition to the Research Range)

- ISO/GLP-compliant recording
- Digital Filters for unstable weighing conditions
- 8 built in application programmes

Model	Capacity	Readability	Pan	Calibration Type	Guide Price
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## Semi Micro & Analytical Models – 0.1mg

### Research

R2104	220g	0.1mg	90mm Ø	External	£1,313
R1204	120g	0.1mg	90mm Ø	External	£1,213
R804	80g	0.1mg	90mm Ø	External	£1,084

### Research PLUS

RP2104	220g	0.1mg	90mm Ø	i-Cal	£1,509
RP1204	120g	0.1mg	90mm Ø	i-Cal	£1,409
RP804	80g	0.1mg	90mm Ø	i-Cal	£1,280

## Milligram Models – 1mg

### Research

R6203	620g	0.001g	115 mm Ø	External	£928
R4203	420g	0.001g	115 mm Ø	External	£813
R1503	150g	0.001g	115 mm Ø	External	£687

### Research PLUS

RP6203	620g	0.001g	115 mm Ø	i-Cal	£1,124
RP4203	420g	0.001g	115 mm Ø	i-Cal	£1,009
RP1503	150g	0.001g	115 mm Ø	i-Cal	£883

## Top Pan Models – 0.1 & 0.01g

### Research

R62002	6200g	0.01g	180 x 180mm	External	£1,027
R42002	4200g	0.01g	180 x 180mm	External	£913
R22002	2200g	0.01g	180 x 180mm	External	£813
R8202	820g	0.01g	115 mm Ø	External	£747
R82001	8200g	0.1g	180 x 180mm	External	£920
R62001	6200g	0.1g	180 x 180mm	External	£860

### Research PLUS

RP62002	6200g	0.01g	180 x 180mm	i-Cal	£1,223
RP42002	4200g	0.01g	180 x 180mm	i-Cal	£1,109
RP22002	2200g	0.01g	180 x 180mm	i-Cal	£1,009
RP8202	820g	0.01g	115 mm Ø	i-Cal	£943
RP82001	8200g	0.1g	180 x 180mm	i-Cal	£1,116
RP62001	6200g	0.01g	180 x 180mm	i-Cal	£1,056





# Calibration & Test Weights With a UKAS Certificate



Weights

## M1 Class OIML Stainless Steel Test Weights with a UKAS certificate

Denomination	Part No.	Price*	Denomination	Part No.	Price*	Denomination	Part No.	Price*
1g	7141-NAM1	£27	50g	7146-NAM1	£35	1000g	7150-NAM1	£66
2g	7142-NAM1	£28	100g	7147-NAM1	£37	2000g	7151-NAM1	£99
5g	7143-NAM1	£29	200g	7148-NAM1	£42	5000g	7152-NAM1	£182
10g	7144-NAM1	£31	500g	7149-NAM1	£52	10000g	7153-NAM1	£299
20g	7145-NAM1	£33	*Includes cost of UKAS certificate			Supplied in a plastic box		

## F1 Class OIML Stainless Steel Test Weights – with a UKAS certificate

Denomination	Part No.	Price*	Denomination	Part No.	Price*	Denomination	Part No.	Price*
1mg	7537-NAF1	£39	100mg	7529-NAF1	£39	1g – 1kg (13 weights)	7416-NAF1	£960
2mg	7536-NAF1	£39	200mg	7528-NAF1	£39	1g – 2kg (14 weights)	7414-NAF1	£1,369
5mg	7534-NAF1	£39	500mg	7526-NAF1	£39	Further weight sets on request		
10mg	7533-NAF1	£39	1mg – 500mg (12 weights)	7440-NAF1	£336	*Includes cost of UKAS certificate		
20mg	7532-NAF1	£39	1mg – 100g (21 weights)	7428-NAF1	£761	Supplied in a plastic box		
50mg	7530-NAF1	£39						

Denomination	Part No.	Price*	Denomination	Part No.	Price*	Denomination	Part No.	Price*
1g	7525-NAF1	£52	50g	7518-NAF1	£62	1000g	7513-NAF1	£144
2g	7524-NAF1	£52	100g	7517-NAF1	£69	2000g	7512-NAF1	£200
5g	7522-NAF1	£54	200g	7516-NAF1	£80	5000g	7046-NAF1	£276
10g	7521-NAF1	£57	500g	7514-NAF1	£113	10000g	7047-NAF1	£501
20g	7520-NAF1	£59	*Includes cost of UKAS certificate			Supplied in a plastic box		

## E2 Class OIML Stainless Steel Test Weights – with a UKAS certificate

Denomination	Part No.	Price*	Denomination	Part No.	Price*	Denomination	Part No.	Price*
1mg	7537-NAE2	£49	50mg	7530-NAE2	£49	1mg – 500mg (12 weights)	7440-NAE2	£614
2mg	7536-NAE2	£49	100mg	7529-NAE2	£49	1mg – 100g (21 weights)	7428-NAE2	£1,398
5mg	7534-NAE2	£49	200mg	7528-NAE2	£49	Further weight sets on request		
10mg	7533-NAE2	£49	500mg	7526-NAE2	£49	*Includes cost of UKAS certificate		
20mg	7532-NAE2	£49	Supplied in a plastic box					

Denomination	Part No.	Price*	Denomination	Part No.	Price*	Denomination	Part No.	Price*
1g	7525-NAE2	£76	10g	7521-NAE2	£82	100g	7517-NAE2	£110
2g	7524-NAE2	£79	20g	7520-NAE2	£88	200g	7516-NAE2	£130
5g	7522-NAE2	£81	50g	7518-NAE2	£97	Supplied in a plastic box		



Shown with strap clamp (optional extra)



## Dispersers

Description	Model IKA9005	Model IKA9006	Description	IKA1401 - Tube Drive Kit
<b>Volume Range (H2O)</b>	1 – 1500ml	1 - 2000ml	<b>Motor rating in / out</b>	20 / 17W
<b>Speed Range</b>	3500 – 24000 rpm	3400 – 24000 rpm	<b>Speed Range</b>	300 – 6,000 rpm
<b>Motor Rating in / out</b>	500 / 300 W	500 / 300 W	<b>Timer</b>	1 –59 secs (300 – 6000 rpm) 1 –29 min (300 – 4000 rpm)
<b>Speed Adjustment</b>	Infinitely variable	Infinitely variable	<b>Dimensions (WxDxH)</b>	100 x 160 x 40mm
<b>Dimensions (WxDxH)</b>	65 x 80 x 240mm	65 x 80 x240mm	<b>Included accessories</b>	<b>20mm tubes :</b> 2 x ST-20 Tube with stirring device 2 x DT-20 Tube with rotor-stator element 2 x BMT-20-S Tube for grinding with s/s balls 2 x BMT-20-G Tube for grinding with glass balls
<b>Included accessories</b>	S 18N-10G (element 1-100ml range) R 182 Boss head clamp R 1826 Plate stand	S 25 N - 18 G (element 10 –1500ml range)	<b>Guide Price</b>	<b>£377</b>
<b>Guide Price</b>	<b>£1,122</b>	<b>£1,203</b>		

Wide Range of Disperser Elements Available Call For Details

## Orbital Shakers

Description	Model IKA1501	Model IKA1502	Model IKA1503
<b>Orbital Diameter</b>	4.5mm	4.5mm	4.5mm
<b>Max Permitted shaking weight</b>	500g (including attachment)	500g (including attachment)	100g
<b>Speed Range</b>	0 – 3000 rpm	0 – 3000 rpm	2800 rpm (fixed)
<b>Digital Display / Timer Count-down</b>	No	Yes	No
<b>Displays rated &amp; actual speed</b>	No	Yes	No
<b>Included</b>	MS 1.21 One hand Insert (Foam Inlay ) MS 3.1 Mounting for vessels up to 30mm MS 3.3 Universal attachment – foam inserts	As per model 3617000 plus MS1.32 Test tube insert 4 holes 15mm MS 3.4 Microtiter plate attachment	None
<b>Guide Price</b>	<b>£250</b>	<b>£342</b>	<b>£125</b>

## Orbital Shakers

Description	Model IKA1504	Model IKA1505
<b>Orbital diameter</b>	4mm	10mm
<b>Dimensions</b>	270 x 316 x 98 mm	360 x 420 x 98 mm
<b>Speed Range</b>	80 – 800 rpm	20 – 500rpm
<b>Max Permitted shaking weight</b>	2 kg	7.5 kg
<b>Timer</b>	5 –50 min	5 –50 min
<b>Base Unit Price</b>	<b>£684 (excluding attachment)</b>	<b>£ 1,091 (excluding attachment)</b>
<b>Standard Attachment options</b>	AS130.1 Universal Attachment £173 AS130.2 Fixing clip attachment – clips separate £160 AS130.3 Plate attachment £42 AS130.4 Test tube attachment £205	AS260.1 Universal Attachment £297 AS260.2 Fixing clip attachment (clips separate) £222 AS260.3 Plate attachment £ 52 AS 260.5 Separating funnel attachment £248

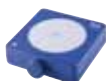
Note attachment is not supplied with the base unit

## Magnetic Stirrers With Heating



Description	Model IKA1101	Model IKA9001	Model IKA1102
<b>Stirring Quantity (H2O)</b>	20 litres	20 litres	10 litres
<b>Speed Range</b>	50 – 1500 rpm	50 – 1500 rpm	100 – 2000 rpm
<b>Heat Output</b>	600 W	600 W	400 W
<b>Temperature Range</b>	50 – 310 °C	50 – 310 °C	Room Temp – 320 °C
<b>Heating Plate (L x W)</b>	Ø 135 mm	Ø 135 mm	Ø 125 mm
<b>Dimensions (WxDxH)</b>	160 x 270 x 85mm	160 x 270 x 85mm	168 x 220 x 105 mm
<b>Included accessories</b>	PT1000.60 Temperature Sensor	ETS-D5 Contact Thermometer H16 V Support Rod for thermometer H44 Boss Head clamp H38 Holding Rod PT1000.60 Temperature Sensor	
<b>Guide Price</b>	<b>£449</b>	<b>£753</b>	<b>£305</b>

## Magnetic Stirrers No Heating



Description	Model IKA1103	Model IKA1104/	Model IKA1105	Model IKA1106
<b>Stirring Quantity (H2O)</b>	250ml	1000 ml	1.5 litres	10 litres
<b>Speed Range</b>	300 – 1800 rpm	0 – 2500 rpm	0 – 2500 rpm	100 – 1500 rpm
<b>Set-Up Surface (L x W)</b>	Ø 80mm	115 x 115mm	Ø 160mm	180 x 180 mm
<b>Dimensions (W x D x H)</b>	95 x 115 x 40 mm	117 x 127 x 45mm	180 x 203 x 45mm	220 x 330 x 105mm
<b>Guide Price</b>	<b>£57</b>	<b>£163</b>	<b>£135</b>	<b>£316</b>

## Heating Plate



Description	Model IKA1201
<b>Heating Rate (1L H2O)</b>	5 K/min
<b>Heat output</b>	1000 W
<b>Temperature Range</b>	50 – 500 °C
<b>Heating Plate (L x W)</b>	180 x 180mm
<b>Dimensions (W x D x H)</b>	220 x 330 x 105mm
<b>Guide Price</b>	<b>£277</b>



## Analytical Grinder

Description	Model IKA1601
<b>Max Task Granularity</b>	10 mm
<b>Nominal Speed</b>	28, 000rpm
<b>Volume of grinding chamber</b>	80 ml
<b>Duty Cycle on / off</b>	1 min / 10 min
<b>Dimensions (WxDxH)</b>	85 x 85 x 240mm
<b>Guide Price</b>	<b>£945</b>

## Overhead Stirrers

Description	Model IKA9003	Model IKA9004
<b>Stirring Quantity (H2O)</b>	20 litres	20 litres
<b>Speed Range</b>	50 – 2,000 rpm	1) 60 – 500rpm 2) 240-2,000rpm
<b>Max Viscosity mPas</b>	10,000 mPas	10,000 mPas
<b>Max Torque at chuck</b>	30 Ncm	150 Ncm
<b>Dimensions (W x D x H)</b>	80 x 190 x 222 mm	88 x 212 x 294 mm
<b>Included accessories</b>	R1342 Stainless Steel 4 bladed propeller stirrer R1826 Plate stand R182 Boss Head Clamp	R1342 Stainless Steel 4 bladed propeller stirrer R1826 Plate stand R182 Boss Head Clamp
<b>Guide Price</b>	<b>£1,113</b>	<b>£875</b>



Shown with strap clamp (optional extra)

Includes clamp and stand not illustrated

Whatever you need to measure, be it pH, ORP, ion concentrations, conductivity or dissolved oxygen, METTLER TOLEDO with its long-term experience provides you with the support you need. Available in bench top and portable versions

### Portable Solutions

Model	pH Range	mV-range	Temp Range °C	Conductivity	Other features	Guide Price
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#### Five Go Range – Entry Level (meter only)

Portable meters with IP54 protection and data memory for a low-cost mobile introduction to the world of electrochemistry.

ML1101	0.00 to 14.00	-1999 to 1999	0.0 to 100.0	-	-	£152
ML1102	-	-	0.0 to 100.0	0.1 $\mu$ S/cm - 199.9 mS/cm	TDS Measurement	£187

#### SevenGo™ and SevenGo Duo™ (meter only unless stated)

Watertight (IP67) routine meters for one and dual-channel measurements with data memory

ML1201	0.00 to 14.00	-1999 to 1999	-5.0 to 105.0	-	-	£240
ML1202	-	-	-5.0 to 105.0	0.10 $\mu$ S/cm - 500 mS/cm	InLab®413 electrode TDS Measurement Resistivity Measurement	£411
ML1203	0.00 to 14.00	-1999 to 1999	-5.0 to 105.0	0.10 $\mu$ S/cm - 500 mS/cm	TDS Measurement Resistivity Measurement	£505

#### SevenGo pro™ and SevenGo Duo pro™ (meter only unless stated)

Professional portable watertight (IP67) Single and dual-channel meters with data memory, infrared interface and extensive GLP support

ML1303	-2.000 - 19.999	-1999 to 1999	ATC: -5.0 - 105.0 MTC: -30 - 130	-	ION Measurement	£432
ML1304	-2.000 - 19.999	-1999 to 1999	Variable	-	Dissolved oxygen ION Measurement	£938
ML1305	-2.000 - 19.999	-1999 to 1999	Variable	0.01 $\mu$ S/cm - 1000 mS/cm	TDS Measurement Resistivity Measurement ION Measurement	£794

### Bench Top Solutions

Model	pH Range	mV-range	Temp Range °C	Conductivity	Other features	Guide Price
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#### Five Easy Range™ – Entry Level (meter only)

FiveEasy™ this compact range of meters is ideal for anyone working on a tight budget

ML1401	0.00 to 14.00	-1999 to 1999	0.0 to 100.0	-	-	£217
ML1402	-	-	0.0 to 100.0	0.1 $\mu$ S/cm - 199.9 mS/cm	TDS Measurement	£279

#### Seven Easy™ Range – Lab (meter only)

The SevenEasy™ product line combines precise electrochemical measuring technology with an innovative, appealing design.

ML1501	0.000 to 14.000	-1999 to 1999	-5.0 to 105.0	-	-	£338
ML1502	-	-	-5.0 to 105.0	0.01 $\mu$ S/cm to 500 mS/cm	TDS Measurement Resistivity Measurement	£531

#### Seven Multi™ Range – Professional (meter only)

Ultra-precise measurement technology. Measuring capabilities can be extended by the use of additional small and manageable expansion units

ML1601	-2.000 - 19.999	-1999 to 1999	-30.0 to 130.0	-	Modular Expansion	£856
ML1602	-	-	-30.0 to 130.0	0.01 $\mu$ S/cm - 1000 mS/cm	Modular Expansion TDS Measurement Resistivity Measurement	£947
ML1603	-2.000 - 19.999	-1999 to 1999	-30.0 to 130.0	0.001 $\mu$ S/cm - 1000ms/cm	Modular Expansion TDS Measurement Resistivity Measurement	£1,146
ML1604*	-2.000 - 19.999	-1999 to 1999	-30.0 to 130.0	-	Modular Expansion	£1,039
ML1605**	-	-	-	-	ION Measurement	£1,476

\* ML1604 Single Channel \*\*ML1605 Dual Channel

For advice on suitable electrodes / sensors / buffers call 01865 307240





Colorado



UltraBasic



Meridian



200 Series

## Portable Solutions

Model	pH Range	mV-range	Temp Range °C	Conductivity $\mu\text{S/cm}$	ION	Other features	Guide Price Meter
<b>Colorado Portable Meters (meter only)</b>							
UltraBasic Portable Meters from Denver Instrument offer portable precision and reliability for the lab or in the field. Available in 2 versions 1) meter only or 2) meter with electrode							
DN2101	-2.00 – 16.00	-1800 – +1800	-5.0 to 90.0	-	-	-	£195
DN2102	-	-	-5.0 to 90.0	0.1 - 20,000	-	Salinity Measurement	£260

## Bench Top Solutions

Model	pH Range	mV-range	Temp Range °C	Conductivity $\mu\text{S/cm}$	ION	Other features	Guide Price Meter
<b>UltraBasic Benchtop (meter only)</b>							
Available in 4 versions 1) meter only 2) Meter, pH-Combination electrode, + Kit. 3) Meter, 300728-1 pH/ATC-Combination electrode, + Kit 4) Bio-Kit includes meter, 300729-1 pH/ATC-Combination electrode + Kit. (Note kit includes base plate and arm)							
DN2202	0.00 to 14.00	-1800 - +1800	0.0 to 100.0	-	-	-	£230

### Meridian (meter only)

Features new Docu-clip which monitors the pH-electrodes in compliance with GLP/GMP and ISO-standards. The innovative clip stores and displays the data from the last four calibrations as well as the initial calibration for the given electrode. Available data includes: time, date, model, meter and electrode serial number, slope efficiency, pH/mV-readings, mV-offset and calibration history. 3 Versions available : 1) Meter only 2) Meter + kit + pH/ATC combination electrode, 3) ) Meter + kit + BIO pH/ATC combination electrode

DN2401	-2.000 to 20.000	-2000.0 to 2000.0	-5.0 to 105.0	-	-	-	£395
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### 200 Series (meter only)

Premium features and multiple functions in an easy-to-use electrochemistry instrument. Denver Instrument's 200 Series offers a meter for every application. Multiple modes allow several readings at one time. Advanced features ensure easy operation Available in 2 versions 1) meter only or 2) meter with electrode

DN2301	-2.000 to 20.000	-1800 - +1800	-5.0 to 105.0	-	-	-	£820
DN2302	-2.000 to 20.000	-1800 - +1800	-5.0 to 105.0	0.01 - 300,000	-	Salinity Measurement Resistivity Measurement	£850
DN2303	-2.000 to 20.000	-1800 - +1800	-5.0 to 105.0	-	$1.00 \times 10^{-9}$ to $9.99 \times 10^9$	-	£850
DN2304	-2.000 to 20.000	-1800 - +1800	-5.0 to 105.0	0.01 - 300,000	$1.00 \times 10^{-9}$ to $9.99 \times 10^9$	Salinity Measurement Resistivity Measurement	£,1250

For advice on suitable electrodes call 01865 307240

## Electrodes

### Replacement electrode service

- Quality replacements
- Certified
- All leading makes of pH meters



For advice call 01865 307240



Taking measurements on site or in the field has many advantages: You save time, you can make adjustments right away and you do not have to worry about transporting samples to the lab.

### Refracto - Portable Refractometer

Refracto is a hand-held and a benchtop refractometer in one. You either place the instrument on a flat surface and add a drop of sample onto the measurement cell or immerse the cell directly into the sample.



Model	Measurement range	Accuracy	Temperature range	Measurement range BRUX	Guide Price
ML1701	1.32 - 1.50; resolution: 0.0001	+/- 0.0005	10 - 40°C; resolution: 0.1°	0 - 85% Brix; resolution: 0.1% Brix accuracy +/- 0.2% Brix	£1,165
ML1702	1.32 - 1.65; resolution: 0.0001	+/- 0.0005	10 - 40°C; resolution: 0.1°	0 - 85% Brix, resolution: 0.1% Brix accuracy +/- 0.2% Brix	£1,562

### Features

Refracto determines refractive index using the total reflection method. The glass prism of the measurement cell of the ML1701 is held by a stainless steel ring, whereas the prism of the ML1702 is made of sapphire, the ring of hard gold plated brass. Sapphire has a higher refractive index and a better thermal conductivity than glass. For this reason the ML1702 has an extended measuring range and registers the sample temperature more quickly. The refractive index of a sample depends on temperature. During measurement, Refracto determines the temperature and then corrects the refractive index to a standard temperature of 20 °C or any other temperature the user defines. To make quick measurements of different types of samples, you can easily switch between up to 10 user defined correction coefficients.

### Quick-Brix™ - Portable Brix Meter

Quick-Brix™ is a compact, easy-to use portable Brix meter for ripeness testing of agricultural products directly on location.



Model	Measurement range	Accuracy	Temperature range	Application	Guide Price
ML1801	0 - 60% Brix ; resolution: 0.1 % Brix	+/- 0.2% Brix	10 - 70 °C	Ripeness testing of agricultural products directly on location	£240
ML1802	0 - 90% Brix ; resolution: 0.1 % Brix	+/- 0.1% Brix	10 - 75 °C	Food Production. Production plant orat incoming goods check	£514

### Features

- Apply some sample onto the prism, press the read key, get the result
- Wipe the prism with a tissue for cleaning and calibrate with a single key stroke and water as standard.
- Measurement on location : reduces errors, provides faster results and eliminates sample confusion. This unit is splash proof and fits into any coat pocket
- Built-in temperature compensation always converts results to a standard temperature of 20 °C.

### Densito - Portable Density Meter

The handling is easy - just immerse the sampling tube, pull the trigger and read the final result directly in the measurement units you want to use!



Model	Measurement range	Accuracy	Temperature range	Application	Guide Price
ML1901	0 to 2 g/cm3. Resolution 0.0001 g/cm3	+/- 0.001 g/cm3	5-35°C; resolution: +/- 0.1°;	Portable density measurement eg check the purity of water or the quality of salad oil:	£1,429

### Features

- Temperature compensation for accurate density determination
- Clearly visible measurement cell
- Variable sampling speed. Slow for viscous samples to avoid the formation of air bubbles or very fast for efficient rinsing of the cell
- Sampling can be difficult with samples of very high viscosity or samples that degas easily. In cases like this, Densito lets you connect an external syringe
- Densito saves up to 1100 results including sample identification, measurement unit, temperature correction coefficient, instrument identification, date and time



## Automatic ashing and drying systems prepASH® 340 Series

### Features

- Built-in high performance analytical balance 0.0001 g.
- Massive reduction in the work-load through the simultaneous evaluation of the moisture and ash content of up to 29 samples in one cycle without desiccator.
- Over 36 hours analysis time available.
- Selectable atmosphere (N<sub>2</sub>, O<sub>2</sub>, Air), exhaust option for measure sulphate-ash.
- Display 5.7" VGA colour touch screen keyboard.
- Remote Monitoring on PC via Network.
- Printout: Graphics, Tables, Methods and Statistics.
- Measurements meet the requirements of DIN, ASTM, ICC and others.
- Error free reports conform to GLP guidelines

PrepASH is the latest in the new generation of thermo-gravimetric analysis instruments. It determines moisture and ash values automatically and produces up to 80% savings in workload and costs. The prepASH provides higher precision and reproducibility of the results through considerable improvements of manual procedures. This is an instrument where no technology transfer data loss occurs and where the entire process is monitored and recorded from start to finish. In one working cycle, up to 29 specimens and a reference pan are ashed fully automatically in accordance with the latest quality guidelines, monitored and recorded within a wide temperature range of 50° to 1000°C. Safety and reliability in the storage of fundamental data and operating parameters are guaranteed.



Newly developed Tuning-fork Vibration Method promises you high accuracy and wide measurement range without replacing sensor plates!! Sine-wave Vibro Viscometer SV-10/ SV-100 measures viscosity by detecting the driving electric current necessary to resonate the two sensor plates at constant frequency of 30Hz and amplitude of less than 1mm.



### Features

- Rapid measurement times
- High repeatability, Low viscosity measurement
- Temperature sensor – assists in the analysis of the affect temperature has on viscosity of sample
- Simplified calibration function
- Portable sensor unit
- Measurement of Non-Newtonian, foaming, flowing, sol and gel samples
- Simultaneous measurements of temperature and viscosity
- WinCT-Viscosity (RsVisco) is software to import the measured data of viscosity and temperature to a PC and display graphically the changes in real-time for your analysis



Model	Measurement range	Accuracy	Temperature range	Minimum Sample Size	Guide Price
SV10	0.3 – 10,000 mPa•s	1% of Reading (Full Range)	10 - 40°C	Standard 35mm (option 13ml)	£3,592
SV100	1-100 Pa•s	1% of Reading (Full Range)	10 - 40°C	Standard 35mm (option 13ml)	£3,592
SV-1A	0.3 - 1000 mPa•s	1% of Reading (Full Range)	0 - 160°C	2ml	£4,362



Eppendorf sets a new standard in pipetting. The ultra light Eppendorf Research plus pipette meets the highest needs in precision and accuracy – combined with ultimate ergonomics and increased flexibility. It is a good feeling to know you are doing the right thing – to

know you are working with the most advanced pipette in the world. A spring loaded tip cone, a secondary calibration option, an improved volume display – and all that in an ultra light, fully autoclavable pipette



### Variable Range

Model	Range $\mu\text{l}$	Guide Price
EP1101	0.1–2.5	£190
EP1102	0.5–10	£190
EP1103	2.0–20	£190
EP1104*	2.0–20	£190
EP1105	10–100	£190
EP1106	20–200	£190
EP1107	30–300	£190
EP1108	100–1,000	£190
EP1109	0.5–5 ml	£190
EP1110	1–10ml	£190

### Fixed Range

Model	Range $\mu\text{l}$	Guide Price
EP1111	10	£126
EP1112	20	£126
EP1113*	10	£126
EP1114*	20	£126
EP1115	25	£126
EP1116	50	£126
EP1117	100	£126
EP1118	200	£126
EP1119*	200	£126
EP1120	250	£126
EP1121	500	£126
EP1122	1000	£126

### Multi-Channel - Variable Range

Model	Range $\mu\text{l}$	Chan-nels	Guide Price
EP1123	0.5–10	8	£502
EP1124	0.5–10	12	£548
EP1125	10–100	8	£502
EP1126	10–100	12	£548
EP1127	30–300	8	£502
EP1128	30–300	12	£548

### Features

- 1 turn volume adjustment
- Ultra low operating force
- Ultra light piston made of Fortron®
- Fully Autoclavable

\* Larger Tip Size

## Eppendorf Research®

The separate tip ejection (two-button operation) and TÜV Rheinland-certified ergonomics make Eppendorf Research® pipettes a lab favourite all over the world.



### Variable Range

Model	Range $\mu\text{l}$	Guide Price
EP1201	0.1–2.5	£182
EP1202	0.5–10	£182
EP1203	2.0–20	£182
EP1204	10–100	£182
EP1205	20–200	£182
EP1206	100–1,000	£182
EP1207	500–5,000	£182
EP1208	1–10 ml	£182

### Fixed Range

Model	Range $\mu\text{l}$	Guide Price
EP1209	10	£122
EP1210	20	£122
EP1211	25	£122
EP1212	50	£122
EP1213	100	£122
EP1214	200	£122
EP1215	250	£122
EP1216	500	£122
EP1217	1000	£122

### Multi-Channel - Variable Range

Model	Range $\mu\text{l}$	Chan-nels	Guide Price
EP1218	0.5–10	8	£478
EP1219	0.5–10	12	£522
EP1220	10–100	8	£478
EP1221	10–100	12	£522
EP1222	30–300	8	£478
EP1223	30–300	12	£522

### Features

- button operation
- Maintenance-free nose cones

## Eppendorf Reference®

The patented Reference pipette is synonymous with pipetting accuracy, a smooth stroke, a compact and robust design and superior operating comfort.

### Variable Range

Model	Range $\mu\text{l}$	Guide Price
EP1301	0.1–2.5	£248
EP1302	0.5–10	£248
EP1303	2.0–20	£248
EP1304*	2.0–20	£248
EP1305	10–100	£248
EP1306	50–200	£248
EP1307	100–1,000	£248
EP1308	500–2,500	£248

### Fixed Range

Model	Range $\mu\text{l}$	Guide Price
EP1309	1	£146
EP1310	2	£146
EP1311	5	£146
EP1312	10	£146
EP1313*	10	£146
EP1314	20	£146
EP1315	25	£146
EP1316	50	£146

### Fixed Range

Model	Range $\mu\text{l}$	Guide Price
EP1317	100	£146
EP1318	200	£146
EP1319	250	£146
EP1320	500	£146
EP1321	1000	£146
EP1322	1500	£146
EP1323	2000	£146
EP1324	2500	£146

\* Larger Tip Size

**Certificate of calibration :** The above pipettes can be supplied with certification :Single Channel : £5 extra, Multi Channel : £12 extra

For more information on Eppendorf Pipettes & T.i.p.s Visit [www.LabPro.co.uk](http://www.LabPro.co.uk) Call for sales advice 01865 307240

### Eppendorf Varispenser®

Bottle-top dispenser fits on external threads of 32 mm (sizes 1, 2 and 3) or 45 mm (sizes 4, 5 and 6), complete with telescopic tube, wrench and 3 adapters



Model	Range ml	Guide Price
EP1401	0.50 - 2.50	£195
EP1402	1.00 - 5.00	£195
EP1403	2.00 - 10.0	£195
EP1404	5.00 - 25.0	£251
EP1405	10.0 - 50.0	£275
EP1406	20.0 - 100.0	£356

#### Features

- PFA-sealing of the slide piston prevents jamming
- Fine adjustment depending on viscosity of liquid
- No dripping when valve closed
- Telescopic tube for use with high bottles
- Rapid volume setting using precise graduation scale
- Patented safety valve for deairing without loss of reagent
- Cannel-sealing cap prevents media contact

**Upgrade to Varispenser® Plus with safety valve and fine adjustment for £43**

### Eppendorf Multipette® plus

This manual hand-held dispenser is the ideal precision instrument for saving time and speeding up long series pipetting.



Model	Description	Guide Price
EP1501	Multipette plus	£249

#### Features

- Combitip recognition with volume display
- 112 different volumes from 1 µl to 10 ml

### Eppendorf Combitips plus

(set of 100) \* for above

Model	Description	Smallest step	Largest step	Guide Price
EP1502	0.1ml	1µl	20µl	£58
EP1503	0.2ml	2µl	40µl	£58
EP1504	0.5ml	5µl	100µl	£58
EP1505	1ml	10µl	200µl	£58
EP1506	2.5ml	25µl	500µl	£58
EP1507	5ml	50µl	1000µl	£58
EP1508	10ml	100µl	2000µl	£58
EP1509	25ml	250µl	5000µl	£68
EP1510	50ml	500µl	10000µl	£75

### Eppendorf Multipette® stream & Xstream

The Multipette stream and Xstream are the first electronic dispensers to combine easy handling with a broad range of features.

Model	Description	Guide Price
EP1511	Multipette® stream	£410
EP1512	Multipette® Xstream	£524

#### Features

The Multipette stream is suitable for all standard dispensing applications. For high end applications, such as titration, aspirating of supernatants, and sequential dispensing the Multipette Xstream is your hand dispenser of choice

### Eppendorf Research Pro Precision liquid handling at its best

#### Variable Range (no charging unit)

Model	Range µl	Guide Price
EP1601	0.50 - 10	£334
EP1602	5 - 100	£334
EP1603	20 - 300	£334
EP1604	50 - 1.000	£334
EP1605	100 - 5.000	£334

#### Multi-Channel (no charging unit)

Model	Range µl	Channels	Guide Price
EP1606	0.5 - 10	8	£506
EP1607	0.5 - 10	12	£610
EP1608	5 - 100	8	£506
EP1609	5 - 100	12	£610
EP1610	20 - 300	8	£506
EP1611	20 - 300	12	£610
EP1612	50 - 1,200	8	£628

Charging unit for above ranges :

Single Channel models : £18 Multi Channel Models £30

#### Features

- Rapid volume selection via pre-definable "FIX" volumes
- Five memories for all commonly used program versions
- Low-force, patented tip ejection for flexible handling
- Removable, autoclavable and maintenance-friendly lower part

#### Certificate of calibration :

The above pipettes can be supplied with certification : Single Channel : £5 extra, Multi Channel : £12 extra

For more information on Eppendorf Pipettes & T.i.p.s Visit [www.LabPro.co.uk](http://www.LabPro.co.uk) Call for sales advice 01865 307240



F2 Range

F1 Range

## Finnpipette F1

Thermo Scientific Finnpiptette F1 combines all the features that Finnpiptette are famous for with state-of-the-art innovations.

### Multi-Channel - Variable Range

Model	Range $\mu$ l	Channels	Guide Price
FN1301	1 – 10	8	£470
FN1305	1 – 10	12	£535
FN1309	1 – 10	16	£595
FN1302	5 – 50	8	£470
FN1306	5 – 50	12	£535
FN1310	5 – 50	16	£595
FN1303	10 – 100	8	£470
FN1307	10 – 100	12	£535
FN1304	30 – 300	8	£470
FN1308	30 – 300	12	£535

### Features

- Antimicrobial surface : Silver (Ag) ions create a surface which inhibits growth of bacteria
- Advanced Volume Gearing mechanism (AVG) enhances pipetting performance
- Set and forget - pipetting button Easy set and forget lock mechanism to adjust the volume
- Super blow-out piston with volumes of 50 $\mu$ l and below - Delivery of micro-size drops
- Patented soft touch tip ejection - Minimizes the forces needed for tip ejection \* **Larger Tip Size**

### Variable Range

Model	Range $\mu$ l	Guide Price
FN1201	0.2 - 2	£175
FN1202	0.5 - 5	£175
FN1203	1 - 10	£175
FN1204*	1 - 10	£175
FN1205	2 - 20	£175
FN1206*	2 - 20	£175
FN1207	10 -100	£175
FN1208	20 - 200	£175
FN1209	30 - 300	£175
FN1210	100 - 1000	£175
FN1211	0.5 – 5ml	£187
FN1212	1 – 10ml	£187

### Fixed Range

Model	Range $\mu$ l	Guide Price
FN1101	1	£98
FN1102	5	£98
FN1103	10	£98
FN1104	25	£98
FN1105	50	£98
FN1106	100	£98
FN1107	250	£98
FN1108	500	£98
FN1109	1000	£98
FN1110	2000	£98
FN1111	3000	£98
FN1112	5000	£98
FN1113	10000	£98

**Finnpipette F2** Finnpiptette F2 offers superior comfort, performance, reliability and repeatability

### Multi-Channel - Variable Range

Model	Range $\mu$ l	Channels	Guide Price
FN1601	1 – 10	8	£450
FN1605	1 – 10	12	£510
FN1609	1 – 10	16	£575
FN1602	5 – 50	8	£450
FN1606	5 – 50	12	£510
FN1610	5 – 50	16	£575
FN1603	10 – 100	8	£450
FN1607	10 – 100	12	£510
FN1604	30 - 300	8	£450
FN1608	30 - 300	12	£510

### Variable Range

Model	Range $\mu$ l	Guide Price
FN1501	0.2 - 2	£158
FN1502	0.5 - 5	£158
FN1503	1 - 10	£158
FN1504*	1 - 10	£158
FN1505	2 - 20	£158
FN1506*	2 - 20	£158
FN1507	10 -100	£158
FN1508	20 - 200	£158
FN1509	100 - 1000	£158
FN1510	0.5 – 5ml	£170
FN1511	1 – 10ml	£170

### Fixed Range

Model	Range $\mu$ l	Guide Price
FN1401	1	£89
FN1402	5	£89
FN1403	10	£89
FN1404	25	£89
FN1405	50	£89
FN1406	100	£89
FN1407	250	£89
FN1408	500	£89
FN1409	1000	£89
FN1410	2000	£89
FN1411	3000	£89
FN1412	5000	£89
FN1413	10000	£89

### Features

- Advanced Volume Gearing mechanism (AVG) - enhances pipetting performance
- Large Ergovisio display - Big display with white numbers on black background for increased visibility
- Double action pipetting button - Rotating upper part prevents accidental volume alteration
- Very light and smooth pipetting action - Enables better pipetting results over longer pipetting periods
- Fully autoclavable - The whole pipette can be autoclaved

\* **Larger Tip Size**

### Certificate of calibration :

The above pipettes can be supplied with certification : Single Channel : £5 extra, Multi Channel : £12 extra



Model	Range $\mu$ l	Guide Price
FN1701	200 / 1000 $\mu$ l	£158
FN1702	400 / 2000 $\mu$ l	£158
FN1703	1000 / 5000 $\mu$ l	£158
FN1704	2000 / 10,000 $\mu$ l	£158
FN1705	5000 / 30,000 $\mu$ l	£212
FN1706	10,000 / 60,000 $\mu$ l	£226

### Finnpipette Dispenser

Finnpipette Dispenser dispenses with very high consistency, precision and reproducibility, due to the careful design of all components.

### Features

The Finn timer Dispensers integrate a number of user-friendly and ergonomic features, such as precise click-stop volumetric adjustment for rapid and precise volume setting. The piston handle is ergonomically designed and is non-slip, making dispensing safe, accurate and fatigue-free.

### Certificate of calibration :

The above dispensers can be supplied with certification : £5 extra

### Finnpipette Stepper

Easy and convenient repetitive pipetting, simply attach the appropriate tip size, fill and prime the tip, and dial the selected volume. Stepper suites for work with aggressive and viscous liquids

#### Stepper - Single Channel

Model	Description	Guide Price
FN1801	Range : 10-5000 $\mu$ l	£200
FN1802	Adapter for 25 & 50 ml syringes (10/box)	£52
FN1803	Sterile Adapter for 25 & 50 ml syringes (5/box)	£43

#### Stepper - Multi Channel

Model	Description	Guide Price
FN1811	Handle & Module	£501
FN1812	Module only	£307

### Specification

Capacity	Dispensing Volume	Increment
1250 $\mu$ l	50 – 250 $\mu$ l	50 $\mu$ l

### Finntips : Single Channel Stepper

Model	Capacity	Dispensing Volume $\mu$ l	Guide Price
FN1804 (qty100)	500 $\mu$ l	50 / 10	£80
FN1805 (qty100)	1250 $\mu$ l	125 / 25	£80
FN1806 (qty100)	2500 $\mu$ l	250 / 50	£80
FN1807 (qty 50)	5.0 ml	500 / 100	£40
FN1808 (qty 50)	12.5 ml	1250 / 250	£40
FN1809 (qty 20)	25 ml	2500 / 500	£40
FN1810 (qty 10)	50 ml	5000 / 1000	£40

**Certificate of calibration**  
Steppers can be supplied with certification : £12 extra

### Finnpipette – Novus Electronic Pipette

Finnpipette Novus, a pipette that combines simplicity, comfort and functionality

#### Single Channel – Variable Range

Model	Range $\mu$ l	Guide Price
FN1901	1-10	£381
FN1902	1-10*	£381
FN1903	5-50	£381
FN1904	5-50*	£381
FN1905	10-100	£381
FN1906	30-300	£381
FN1907	100-1000	£381
FN1908	0.5-5 ml	£381
FN1909	1-10 ml	£381

#### Multi Channel – Variable Range

Model	Range $\mu$ l	Channels	Guide Price
FN1910	1 – 10	8	£605
FN1911	1 – 10	12	£693
FN1912	5 – 50	8	£605
FN1913	5 – 50	12	£693
FN1914	5 – 50	16	£804
FN1915	30 – 300	8	£605
FN1916	30 – 300	12	£693
FN1917	100 – 1200	8	£748

\* Larger Tip Size

### Certificate of calibration :

The above pipettes can be supplied with certification : Single Channel : £5 extra, Multi Channel : £12 extra

# Calibration & Maintenance Services



Established in 1972, European Instruments has grown steadily to become a leading independent company in the UK that specialises in the delivery of maintenance and calibration services

Our field based team comprises of multi-disciplined engineers who are based at strategic points around mainland UK.

Located at our head office in Oxford, our in-house team provide a technical support role for our external engineers, a repair service and deliver our internal calibration services for pipettes and weights

## Pipette Service & Calibration

We offer a number of different services and depending on your requirements you can choose from, Quickcal, FullCal, UKASCal or for damaged pipettes RepCal. These services can be offered onsite at your premises or pipettes can be sent back to our laboratory in Oxford



## Mass Calibration

Our UKAS accredited environmentally controlled laboratories can calibrate mass with traceability back to the National Standard. We can calibrate weights at OIML E2 level to 200 grams, F1 to 10 kilograms and F2 & M1 to 20 kilograms. We can also calibrate non standard weights and provide a calibration service for weights outside this range



## Weighing Equipment (laboratory and industrial) Service and Calibration

With the convenience of a single point of contact, we provide a cost effective, quality service, and unrivalled expertise covering all your weighing service and calibration needs. We also offer two levels of certification to UKAS (ISO 17025) or a standard certificate which satisfies most quality system requirements.



## Ductless Fume Enclosures

European Instruments are certified engineers approved and fully trained by Asura® maintenance. Asura® maintenance is a department of Erlab® group, world-wide specialist in ductless filtration for more than 35 years. Erlab® group benefits of an unrivalled know how based on the distribution and follow up of more than 70,000 cabinets in the world. We can offer a repair, maintenance, installation & validation service. We can also supply a wide range of quality replacement filters suitable for most makes of fume enclosures.



## Combined Services Agreement

The above calibration and maintenance services can also be combined under one agreement. Saving you time and reducing your calibration cost.



A "UKAS Accredited Calibration Laboratory" for

- Weighing
- Pipettes
- Weight Calibration



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