



EduScience UK
We Contribute To Future Education



Labware Catalogue

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Dear Valued Customers

I would like to Thank you for helping EduScience UK Ltd Company in accomplishing its mission: to contribute in future education.

We strive to provide educators worldwide the best innovative products, services and solutions.

We have added in this catalogue over 6000 products including

our latest STEAM and Science Kits that has been developed to adapt the different curriculum needs along with teaching manuals that make hands-on easy for students so they are engaged and have fun doing science experiments in the same time

In addition to our catalogue we have enhanced Eduscienceuk website so you can now order most of our products easily at any time and with flexible payments methods

I'd like to thank you for helping us improving our self so we hopefully can satisfy your needs and we wish to have your regular feedback which defiantly keep our team working on enhancing our self to serve you better.

Sincerely
EduScience UK Ltd



EduScience UK
We Contribute To Future Education

“COMPLETE SOLUTIONS OF EDUCATIONAL SUPPLIES”

EduScience is a UK based science equipment's Manufacturer, partnered with Reputed Science Education Factories one of the oldest established companies in the field of science education. It was foremost in the development of the Nuffield Science Project acting as consultants to British Government to revolutionize science teaching across the world.

EduScience provide the highest quality and support service possible to meet today's demands from science education.

- Design, bringing new equipment to school's laboratories
- Manufacture, state of the art manufacturing
- Quality and Safety, all products meet or exceed all EU and international regulations on safety, quality and performance
- Curriculum Relevant, focused on products precisely matched to your curriculum requirements
- Technical Support, through advice, teacher and technician training and field support in your school.

More than a supplier of Science Education Supplies

Technical Expertise

Our team consists of specialists in Physics, Chemist and Biology as well as ICT and Math

As a designer and manufacturer, we understand the equipment you have in your lab.

We can provide advice and experimental notes, spare parts, repair and calibration.

Specialist in the Field

Everything one needs for teaching science including laboratory design and furniture.

Confidence Builder

Our teaching notes help with lesson planning and our support team is on hand to build teacher confidence and remove the feeling of isolation for specialist and non-specialist teachers.

Apparatus matched precisely to your Curriculum

Spend your budget wisely, buy purchasing relevant equipment. We match apparatus to your practical lesson requirements exactly to your curriculum needs.

International Regulations

Our rigorous Quality Assurance policy means that all of our products usually exceed those in place throughout the world.

Product Development

A progressive development programmer ensures that science teaching keeps in step with progress to provide your students with the experience of higher education, industry or research.

EduScience with Its heritage has always been about progressive design and development since the 1960s. and continues today offering curriculum development to Governments around the world and produces bespoke equipment to meet their specific needs. You can tap into this vast experience and knowledge.

PRODUCTS

From Analogue Meter to Zoological specimens, a true comprehensive provider of everything you could need for your lab whether an established or brand new facility.

STEM

- Science, specialist in integrating science into Technology, Engineering and Math
- Technology, from design through to robotics, data logging and cross curricula links
- Engineering, the latest technology from 3D printing to workshop resources
- Math, designed by educationalist and maths experts with software and practical lessons

Stem Kits,

For teachers with busy schedules EduScience STEM kits help lesson planning and preparation leaving you more time to inspire your students with exciting resources.



ROBOTICS

The buzz word around the world today, is Robotics, even if students are not destined to work in the field a knowledge of robotics is essential for an understanding of industry and even domestic applications

EduScience robotic kits help students to develop problem solving ability and logical thinking skills while learning about robotics and science principles.

SCIENCE DATA LOGGING AND SENSORS

Our innovative new data logging system using Data logger and direct USB sensors and our specialized software for data capture and analysis making science much more easy and joyful.



PRACTICAL PHYSICS

Take the fear out of leading practical physics lessons. Using EduScience Kits or teaching systems provides easy to prepare practical lessons in your lab which inspire the students and enhance their learning experience.

EduScience Kits or teaching systems cover every area in physics

Electricity, Electrostatics, Optics, Energy, Alternative Energy, Atomic and Nuclear, Forces etc.



CHEMISTRY LAB RESOURCES

EduScience offer complete range of chemistry lab equipment's including glassware, Chemicals and disposables we keep many of those products in our store to cater the immediate needs.





BIOLOGY LAB RESOURCES

EduScience have produced a complete comprehensive range of resources for practical work for biology students from elementary to high school to first year teaching labs in universities.

As experts in the field of microscopy we can offer training for teachers and technicians in the application for microscopes and maintenance

ENVIRONMENTAL AND FORENSIC SCIENCE.

Environmental science along with the study of forensics grips the imagination and curiosity of students across all age ranges.

EduScience Kits and models support student's learning of principles, concepts and methodology. All of these skills are transferable within current curricula.

Our Kits, excite and inspire as well as supporting teachers in lesson planning and reducing technical time in preparation and lesson management.



EDUCATIONAL AND LABORATORY FURNITURE

EduScience produce complete range of laboratory and class room furniture's in standard and custom made, we promise to provide you comprehensive furnishing solutions that convert your school into a place where everyone feels comfortable. It's also our challenge to remain committed to setting new standards in quality, design, and service.

PRIMARY EDUCATION SCIENCE AND MATH

EduScience aim is to support teachers by providing unique, high-quality educational tools that enhance instruction and provide engaging learning experiences that meet children's individual needs. EduScience versatile products include play and learning activity sets, manipulatives and games that build foundational skills in all subject areas through exploration, imagination and fun.



SMART MATERIAL AND FUN SCIENCE

EduScience have been working with teachers and educational specialists to deliver playful learning experiences that bring subjects to life in the classroom and make learning fun and impactful. We have a wide range of physical and digital educational resources that encourage students to think creatively, reason systematically and release their potential to shape their own future.

SERVICES



TEACHER AND TECHNICIAN TRAINING

We provide comprehensive teacher training program and lab technicians with hands on experiments

CURRICULUM DEVELOPMENTS

We work with Ministries of education worldwide to identify the best bespoke scenario for developing science, mathematics and technology education curriculum for their country, to support national aims and objectives. And introduce STEM concepts that complement the current curriculum

MICROSCOPE SERVICING

Our experienced engineers are able to service your microscopes.

BALANCE SERVICING

Our experienced engineers will service your balances and ensure that they are accurately calibrated.

PROJECTS HANDLING

We have a wealth of expertise identifying your needs and according to your curriculum requirements, packing, delivering with our own transport, and helping you unpack and check off your new laboratory equipment.

HAZARDOUS CHEMICAL WASTE DISPOSAL

We employ a specialist team of chemists to pack and label hazardous chemicals ready for removal. Our trained ADR drivers will then transport to a registered waste station, and we provide full documentation for your peace of mind.

CLASSROOM AND LABORATORY REFIT

We use a professional furniture manufacturing company to assess your needs and design a tailored solution, using your chosen materials, including modern and innovative designs



EduScience UK



LAB WARE



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LAB WARE

- **Glassware, Plasticsware**
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- **Measuring Instruments**
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Equipment**
- **Appliances**





Test Tube

Manufactured from boro 3.3 glass with fire polished Rim (pack of 100)

- ESL56324 Size : 10 X 75MM
- ESL56325 Size : 12 X 75MM
- ESL56326 Size : 15 X 125MM
- ESL56327 Size : 18 X 150MM
- ESL56328 Size : 25 X 150MM
- ESL56330 Size : 16 X 160MM
- ESL56330EU Size : 16 X 160MM



Test Tube

Manufactured from boro 3.3 glass with Rim (pack of 100)

- ESL56332 Size : 10 X 75MM
- ESL56333 Size : 12 X 75MM
- ESL56334 Size : 16 X 125MM
- ESL56335 Size : 18 X 150MM
- ESL56336 Size : 25 X 150MM



Test Tube Without Rim

Manufactured from boro 3.3 glass without Rim (pack of 100)

- ESL56339 Size : 10 X 75MM
- ESL56340 Size : 12 X 75MM
- ESL56341 Size : 16 X 125MM
- ESL56342 Size : 18 X 150MM
- ESL56343 Size : 25 X 150MM



Culture Tube Round Bottom With Screw Cap

NEW

- Tubes Round Bottom With Screw Thread And Teflon Line
- Made from ASTM E-438 Type-1 Class A, Boro 3.3 glass
- With Screw Thread and Teflon Liner
- Leakproof
- Comes with PP Screw Cap

- ESL56998 Size : 12 X 100MM 5 ml
- ESL56999 Size : 16 X 100MM 10 ml
- ESL57000 Size : 16 X 125MM 15ml
- ESL57001 Size : 12 X 160MM 20ml



Burette Class AS With PTFE Key Stopcock

Clear glass ,with lot. Certificate ,tolerance: 0.05(ML) division: 0.1

- ESL56348 Capacity: 25 ML
- ESL56349 Capacity: 50 ML



Culture Tube Round Bottom With Aluminum Stopper GL Thread

NEW

W/ Aluminum Stopper GL Thread

ESL56345



Burette Class B With PTFE Key Stopcock

With amber graduation (economy model) with detachable PTFE key stopcock

- ESL56346 Capacity: 25 ML
- ESL56347 Capacity: 50 ML



Burette Class B With Detachable PTFE Key Stopcock

With Amber graduation DIN ISO 385.

- ESL56351 Capacity: 25 ML
- ESL56352 Capacity: 50 ML





Burette Class B

With Glass Key Stopcock
Clear glass with amber graduation din ISO 385.

- ESL56359 Capacity: 25 ML
- ESL56360 Capacity: 50 ML



Burette 50 ml Class B DIN ISO 385 ,BORO 3.3 with Pinch Clip 0.10 ml

BORO 3.3 with Pinch Clip 0.10 ml

ESL56350



Burette Class B

With Needle Valve PTFE Stopcock With amber graduation DIN ISO 385.

- ESL56353 Capacity: 25 ML
- ESL56354 Capacity: 50 ML
- ESL56355 Capacity: 100 ML



Burette Class As

With PTFE Key Stopcock
Un serialized, graduation interval 0.2ML, tolerance +/- 0.1ML

- ESL56361 Capacity: 10 ML
- ESL56362 Capacity: 25 ML
- ESL56363 Capacity: 50 ML
- ESL56364 Capacity: 100ML



Burette Class As

With Glass Key Stopcock
Clear glass with amber graduation , with lot certificate , division 0.1, Tolerance 0.05(ML)

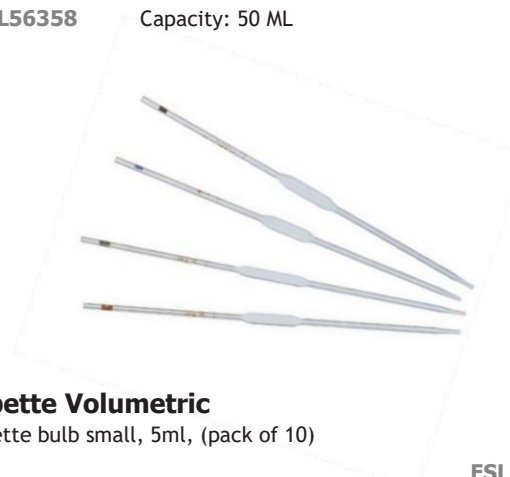
- ESL56357 Capacity: 25 ML
- ESL56358 Capacity: 50 ML



Pipette Volumetric Class AS

One mark,with Lot. Certificate

- ESL56365 Capacity : 5 ML
- ESL56366 Capacity : 10 ML
- ESL56367 Capacity : 20 ML
- ESL56368 Capacity : 25 ML
- ESL56369 Capacity : 50 ML



Pipette Volumetric

Pipette bulb small, 5ml, (pack of 10)

ESL56371



Pipette Graduated (Serological), Class B

	Capacity	Subdivision	Tolerance	colour
ESL56372	1 ML,	0.1ML,	- 0.02ML	green
ESL56373	2 ML,	0.1ML,	- 0.02ML	green
ESL56374	5 ML,	0.1ML,	- 0.02ML	Blue
ESL56375	10 ML,	0.1ML,	- 0.02ML	orange
ESL56376	25 ML,	0.1ML,	- 0.01ML	white
ESL56377	50 ML,	0.1ML,	- 0.01ML	white



NEW



Pipette Graduated, Class AS Capacity 0.1 ML

Made of Borosilicate Glass AS , Color Coded , Amber Printing , Zero at the Top , Division 0.01 ML,

CAT NO	Capacity	CAT NO	Capacity
ESL56907	0.1ML,(0.01 ML)	ESL56914	5ML,(0.05 ML)
ESL56908	0.2ML,(0.01 ML)	ESL56915	5ML,(0.1 ML)
ESL56909	0.5ML,(0.01 ML)	ESL56916	10ML,(0.1 ML)
ESL56910	1ML,(0.01 ML)	ESL56917	20ML,(0.1 ML)
ESL56911	1ML,(0.1 ML)	ESL56918	25ML,(0.1 ML)
ESL56912	2ML,(0.01 ML)	ESL56919	25ML,(0.2 ML)
ESL56913	2ML,(0.10 ML)	ESL56920	50ML,(0.1 ML)

Pipette Transfer

Disposable Graduated Transfer Pipette Non Sterile



- ESL56378 Capacity : 1 ML,
- ESL56379 Capacity : 2 ML,
- ESL56380 Capacity : 3 ML,

Pipette Transfer

Disposable Graduated Transfer Pipette Individually Wrapped in a peel off pouch-Sterile.



- ESL56383 Capacity : 1 ML,
- ESL56384 Capacity : 2 ML,
- ESL56385 Capacity : 3 ML,

Dropping Pipette With Rubber Teat

Single glass dropping pipette ,made of neutral glass Supplied with latex teat Dropping Pipette measures 125 mm length Useful for dispensing liquid from test tubes



NEW

ESL56389



Pipette Aid

Pipette aid mad of polypropylene and silicon

- ESL56390 Capacity : 2 ML,
- ESL56391 Capacity : 5 ML,
- ESL56392 Capacity : 10 ML,
- ESL56393 Capacity : 25 ML,



Pipette Stand Rotary Vertical

Pipette stand rotary vertical pp, 94 places

ESL56395



Pipette Washer PP

Pipette washer PP

ESL56398



Flask Erlenmeyer Narrow Neck

Flask Erlenmeyer, Narrow neck These flasks are made from thick wall and have reinforced thick beaded rim. The flasks are produced to meet ASTM E 1404 TYPE 1 specifications. All the flasks are printed in white enamel.

	Capacity	Subdivision	graduation Range
ESL56420	50 ML	10ML	20-50ML
ESL56421	100 ML	0M	20-100ML
ESL56422	250 ML	5ML	50-225ML
ESL56423	500 ML	50ML	100-500ML
ESL56424	1000 ML	50ML	250-1000ML

Flask Erlenmeyer Narrow Neck

Erlenmeyer Flasks, Narrow Neck with graduation DIN ISO 1773 with Reinforced thick Rim to reduce chipping & breakage.

- ESL56412 Capacity : 50 ML
- ESL56413 Capacity : 100 ML
- ESL56414 Capacity : 250 ML
- ESL56415 Capacity : 500 ML
- ESL56416 Capacity : 1000 ML



Flask Erlenmeyer Narrow Neck 250ML With Rubber Stopper

Erlenmeyer Flasks, Narrow Neck with graduation DIN ISO 1773 with Reinforced thick Rim to reduce chipping & breakage, Capacity 250ML



NEW

ESL56414SP



NEW



Erlenmeyer Flask with Screw-Cap

Erlenmeyer Flask with Screw-Cap

	Capacity	Standard joint	Red screw-cap
ESL56411/100	100 ML	(NS) : 25	heat resistance up to 180°C
ESL56411/250	250 ML	(NS) : 32	heat resistance up to 180°C
ESL56411/500	500 ML	(NS) : 32	heat resistance up to 180°C
ESL56411/1L	1000ML	(NS) : 32	heat resistance up to 180°C

NEW



Flask Erlenmeyer PMP, PP, with screw cap

Flask Erlenmeyer PMP, PP, with screw cap

	Capacity	Subdivision	GL
ESL56410/50	50 ML	10ML	40 IN 34/35
ESL56410/100	100 ML	20ML	40 IN 34/35
ESL56410/250	250 ML	50ML	52 IN 45/40
ESL56410/500	500 ML	100ML	52 IN 45/40
ESL56410/1L	1000 ML	200ML	52 IN 45/40

NEW



Flask Erlenmeyer Round Bottom Wide Neck

Flask Round Bottom Wide neck, with beaded rim DIN 12347, DIN ISO 1773,

ESL56428W	Capacity : 100 ML
ESL56429W	Capacity : 250 ML
ESL56430W	Capacity : 500 ML
ESL56431W	Capacity : 1000 ML



Flask Erlenmeyer Wide Neck

Flask Erlenmeyer, wide neck , These flasks are made from thick wall and have reinforced thick beaded rim. The flasks are produced to meet ASTM E 1404 TYPE 1 specifications. All the flasks are printed in white enamel.

ESL56427	Capacity : 50 ML
ESL56428	Capacity : 100 ML
ESL56429	Capacity : 250 ML
ESL56430	Capacity : 500 ML
ESL56431	Capacity : 1000 ML

Flask Round Bottom Narrow Neck

Flask Round Bottom narrow neck, with beaded rim DIN 12347, DIN ISO 1773.

ESL56433	Capacity : 100 ML
ESL56434	Capacity : 250 ML
ESL56435	Capacity : 500 ML
ESL56436	Capacity : 1000 ML
ESL56437	Capacity : 2000 ML



Flask Flat Bottom Narrow Neck

Flask Flat Bottom, narrow neck, with beaded rim DIN ISO 1773.

ESL56440	Capacity : 100 ML
ESL56441	Capacity : 250 ML
ESL56442	Capacity : 500 ML
ESL56443	Capacity : 1000 ML
ESL56444	Capacity : 2000 ML



Flask Distillation With Side Arm

Distillation flask made of Boro silicate glass 3.3

ESL56455	Capacity : 100 ML
ESL56456	Capacity : 250 ML
ESL56457	Capacity : 500 ML
ESL56458	Capacity : 1000 ML
ESL56459	Capacity : 2000 ML





Flask Volumetric Class A

Volumetric Flask Borosilicate glass 3.3 Class A , With Polypropylene stopper and Lot Certificate

- ESL56448 Capacity : 10 ML NS 12/21
- ESL56449 Capacity : 25 ML NS 12/21
- ESL56448 Capacity : 50 ML NS 12/21
- ESL56449 Capacity : 100 ML NS 14/23
- ESL56450 Capacity : 250 ML NS 14/23
- ESL56451 Capacity : 500 ML NS 19/26
- ESL56452 Capacity : 1000 ML NS 24/29
- ESL56453 Capacity : 2000 ML NS 29/32



Flask Volumetric, Class B

Volumetric flask , Borosilicate glass 3.3 Class B With White Polypropylene stopper

- ESL56400 Capacity : 5 ML NS 10/19
- ESL56401 Capacity : 10 ML NS 10/19
- ESL56402 Capacity : 25 ML NS 10/19
- ESL56403 Capacity : 50 ML NS 12/21
- ESL56404 Capacity : 100 ML NS 14/23
- ESL56405 Capacity : 250 ML NS 14/23
- ESL56406 Capacity : 500 ML NS 19/26
- ESL56407 Capacity : 1000 ML NS 24/29
- ESL56408 Capacity : 2000 ML NS 29/32



Mixing Cylinder , Boro 3.3 , With Plastic Stopper

made of borosilicate glass 3.3 in compliance with DIN EN ISO 4788 , with hexagonal base and standard ground joint and poly stopper (PE)

NEW

- | | | |
|----------|--------------------|--|
| ESL56978 | Capacity : 25 ML | Class B blue graduation 25 : 0,5 ml NS 14/23 |
| ESL56979 | Capacity : 50 ML | Class B blue graduation 50 : 1 ml NS 19/26 |
| ESL56980 | Capacity : 100 ML | Class B blue graduation 100: 1 ml NS 24/29 |
| ESL56981 | Capacity : 250 ML | Class B blue graduation 250: 2 ml NS 29/32 |
| ESL56982 | Capacity : 500 ML | Class B blue graduation 500: 5 ml NS 34/35 |
| ESL56983 | Capacity : 1000 ML | Class B blue graduation 1000: 10 ml NS 45/40 |
| ESL56984 | Capacity : 2000 ML | Class B blue graduation 2000: 20 ml NS 45/40 |

Measuring Cylinder , Class B, Hex Base

Measuring Cylinder , Glass hexagonal base ,Class B, To contain (TC), Double metric , with protection collar.

- | | | |
|----------|-------------------|---|
| ESL56500 | Capacity : 25 ML | Graduation Interval 1ML, Tolerance +/- 0.25Ml |
| ESL56501 | Capacity : 50 ML | Graduation Interval 1ML, Tolerance +/- 0.25Ml |
| ESL56502 | Capacity : 100 ML | Graduation Interval 1ML, Tolerance +/- 0.5Ml |
| ESL56503 | Capacity : 250 ML | Graduation Interval 1ML, Tolerance +/- 1ML |
| ESL56504 | Capacity : 500 ML | Graduation Interval 5ML, Tolerance +/- 2ML |



Measuring Cylinder ,Class A, Round Base

Measuring Cylinder , Round base ,Class A , With LOT certificate.

- | Class A | Class B | Capacity |
|----------|-----------|----------|
| ESL56480 | ESL56480B | 5 ML |
| ESL56481 | ESL56481B | 10 ML |
| ESL56482 | ESL56482B | 25 ML |
| ESL56483 | ESL56483B | 50 ML |
| ESL56484 | ESL56484B | 100 ML |
| ESL56485 | ESL56485B | 250 ML |
| ESL56486 | ESL56486B | 500 ML |
| ESL56487 | ESL56487B | 1000 ML |



Measuring Cylinder, Class B, Hex Base

Measuring Cylinder , Hexagonal base ,Class B, To contain (TC), Single metric , Tall form .

- ESL56470 Capacity : 10 ML
- ESL56471 Capacity : 25 ML
- ESL56472 Capacity : 50 ML
- ESL56473 Capacity : 100 ML
- ESL56474 Capacity : 250 ML
- ESL56475 Capacity : 500 ML
- ESL56476 Capacity : 1000 ML





Measuring Cylinder, , Class B, Hex Base

Measuring Cylinder Graduated Class B, Hex Base, with Double Metric Scale, Cylinders are made to meet ASTM E 1272 norms and are printed in double scale with white enamel. All the cylinders from 10ml to 2000ml comes with the bumper guard.

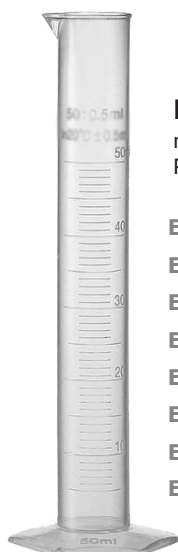
- ESL56492** Capacity : 10 ML
- ESL56493** Capacity : 25 ML
- ESL56494** Capacity : 50 ML
- ESL56495** Capacity : 100 ML
- ESL56496** Capacity : 250 ML
- ESL56497** Capacity : 500 ML
- ESL56498** Capacity : 1000 ML



Measuring Cylinder, Class B , Plastic Base.

Measuring Cylinder , Plastic base ,Class B, To contain (TC), Single metric , with protection collar.

- ESL56461** Capacity : 10 ML
- ESL56462** Capacity : 25 ML
- ESL56463** Capacity : 50 ML
- ESL56464** Capacity : 100 ML
- ESL56465** Capacity : 250 ML
- ESL56466** Capacity : 500 ML
- ESL56467** Capacity : 1000 ML



Measuring Cylinder PP Class B

measuring cylinders - Class B , Material : Polypropylene

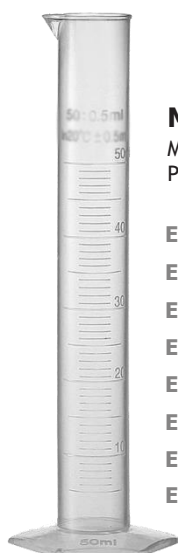
- ESL56516** Capacity : 10 ML
- ESL56517** Capacity : 25 ML
- ESL56518** Capacity : 50 ML
- ESL56519** Capacity : 100 ML
- ESL56520** Capacity : 250 ML
- ESL56521** Capacity : 500 ML
- ESL56522** Capacity : 1000 ML
- ESL56523** Capacity : 2000 ML



Measuring Cylinders- PP

Measuring Cylinders - Autoclavable Graduations, Material : Polypropylene

- ESL56509** Capacity : 25 ML
- ESL56510** Capacity : 50 ML
- ESL56511** Capacity : 100 ML
- ESL56512** Capacity : 250 ML
- ESL56513** Capacity : 500 ML



Measuring Cylinder PMP, Class A

Measuring Cylinder Class A, Material : Polymethylpentene

- ESL56536** Capacity : 10 ML
- ESL56537** Capacity : 25 ML
- ESL56538** Capacity : 50 ML
- ESL56539** Capacity : 100 ML
- ESL56540** Capacity : 250 ML
- ESL56541** Capacity : 500 ML
- ESL56542** Capacity : 1000 ML
- ESL56543** Capacity : 2000 ML



Measuring Cylinder PMP, Class B

Measuring Cylinder Class B, Material : Polymethylpentene

- ESL56526** Capacity : 10 ML
- ESL56527** Capacity : 25 ML
- ESL56528** Capacity : 50 ML
- ESL56529** Capacity : 100 ML
- ESL56530** Capacity : 250 ML
- ESL56531** Capacity : 500 ML
- ESL56532** Capacity : 1000 ML
- ESL56533** Capacity : 2000 ML





Beaker Low Form

Beaker low form, With graduation and spot , Made of borosilicate glass 3.3 .

- ESL56544 Capacity : 10 ml
- ESL56545 Capacity : 25 ml
- ESL56546 Capacity : 50 ml
- ESL56547 Capacity : 100 ml
- ESL56548 Capacity : 250 ml
- ESL56549 Capacity : 400 ml
- ESL56550 Capacity : 600 ml
- ESL56551 Capacity : 1000 ml
- ESL56552 Capacity : 2000 ml
- ESL56553 Capacity : 3000 ml



Beaker Low Form ,Heavy Duty

Beaker low form, Heavy duty borosilicate glass 3.3 ,Tolled top rim , Double metric scales.

	Capacity	Graduation interval	graduation range
ESL56554	100 ml	10m	25-200ml
ESL56555	250 ml	25ml	25-200ml
ESL56556	400 ml	25ml	25-325ml
ESL56557	600 ml	50ml	50-500ml
ESL56558	1000 ml	100ml	100-1000ml
ESL56559	2000 ml	200ml	200-1400ml



Beaker Tall Form

Beaker Tall form, borosilicate glass 3.3 ,with graduation and spout.

- ESL56561 Capacity : 50 ML
- ESL56562 Capacity : 100 ML
- ESL56563 Capacity : 150 ML
- ESL56564 Capacity : 250 ML
- ESL56565 Capacity : 400 ML
- ESL56566 Capacity : 600 ML
- ESL56567 Capacity : 1000 ML



Beaker Low Form

Beaker, low form, with slightly flared beaded top, double metric scale

	Capacity	Graduation interval	graduation range
ESL56572	50 ml	10ml	10-40ml
ESL56573	100 ml	10ml	20-80ml
ESL56574	250 ml	25ml	25-200ml
ESL56575	600 ml	50ml	50-500ml
ESL56576	1000 ml	50ml	100-1000ml
ESL56577	2000 ml	50ml	100-2000ml
ESL56578	5000 ml	50ml	100-5000ml



Beaker (Euro Design) PP

Autoclavable with Graduation, Material : Polypropylene

- ESL56581 Capacity : 100 ml
- ESL56582 Capacity : 250 ml
- ESL56583 Capacity : 500 ml
- ESL56584 Capacity : 1000 ml





Beaker Griffin Low Form PMP

Beaker Griffin Low-form ,Material :Polymethylpentene sold in Packs.

ESL56593	Capacity : 50 ml	12 pcs/pack
ESL56594	Capacity : 100 ml	12 pcs/pack
ESL56595	Capacity : 250 ml	6 pcs/pack
ESL56596	Capacity : 600 ml	4 pcs/pack
ESL56597	Capacity : 1000 ml	3 pcs/pack
ESL56598	Capacity : 2000 ml	1 Pc
ESL56599	Capacity : 5000 ml	1 Pc
ESL56600	Capacity : 10 litre	1 Pc



Beaker Griffin Low Form PP

Beaker Griffin Low-form ,Polypropylene, supplied in Pk

ESL56585	Capacity : 50 ml	12 pcs/pack
ESL56586	Capacity : 100 ml	12 pcs/pack
ESL56587	Capacity : 250 ml	6 pcs/pack
ESL56588	Capacity : 600 ml	4 pcs/pack
ESL56589	Capacity : 1000 ml	3 pcs/pack
ESL56590	Capacity : 2000 ml	1 Pc
ESL56591	Capacity : 5000 ml	1 Pc
ESL56592	Capacity : 10 ltr	1 Pc



Beaker With Handle Low Form PMP,

Beaker Low-Form With Handle, Material : Polymethylpentene .

ESL56612	Capacity : 100 ML
ESL56613	Capacity : 250 ML
ESL56614	Capacity : 600 ML
ESL56615	Capacity : 1000 ML
ESL56616	Capacity : 2000 ML
ESL56617	Capacity : 5000 ML



Beaker With Handle Low Form PP

Beaker Low-Form With Handle ,Made of Polypropylene.

ESL56603	Capacity : 100 ml
ESL56604	Capacity : 250 ml
ESL56605	Capacity : 600 ml
ESL56606	Capacity : 1000 ml
ESL56607	Capacity : 2000 ml
ESL56608	Capacity : 5000 ml



Pycnometer To Gay Lussac, Calibrated, Class A

Pycnometer to gay lussac, calibrated, class a, without certificate, with Teflon stopper

ESL56630	Capacity : 5 ML
ESL56631	Capacity : 10 ML
ESL56632	Capacity : 25 ML



NEW

Winchester Bottle 2.5 Ltr

Winchester Bottle

ESL56636



Weighing Bottle Ground Squat Form Weighing

Bottles, Ground In Stopper Manufactured from ASTM 438 TYPE 1 boro 3.3 glass

ESL56634	50x35mm Capacity : 20 ml
ESL56635	65x35mm Capacity : 25 ml
ESL56636	90x40mm Capacity : 60 ml





Desiccators Vacuum With Stopcock Lid And Plate

Complies with IS 6128 Designed for use under vacuum Sturdy construction of borosilicate glass-ground glass flanges Plates are positioned on an internal ledge within the base Comes with glass stopcock at the top Generally used for drying of moist products, and for storage of moisture sensitive substances ,

- ESL56624 ID Ground Flange APP. 100 mm.
- ESL56625 ID Ground Flange APP. 150 mm.
- ESL56626 ID Ground Flange APP. 200 mm.
- ESL56627 ID Ground Flange APP. 250 mm.
- ESL56628 ID Ground Flange APP. 300 mm.



Desiccators With Lid Plain 150 Mm

Desiccator with Lid, Plain, Die pressed, Neutral Glass with Porcelain perforated plate.

- ESL56619 Diameter 100 MM
- ESL56620 Diameter 150 MM
- ESL56621 Diameter 200 MM
- ESL56622 Diameter 250 MM
- ESL56623 Diameter 300 MM



Bottle Reagent Amber , Narrow Mouth

Bottles Reagent narrow mouth, manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS in compliance to DIN ISO 4796 - 2 standards with standard ground joint & PP stopper, EN ISO 4796,

- ESL56638 Capacity : 50 ML N/S 19/26
- ESL56639 Capacity : 100 ML N/S 19/26
- ESL56640 Capacity : 250 ML N/S 19/26,
- ESL56641 Capacity : 500 ML N/S 19/26
- ESL56642 Capacity : 1000 ML N/S 19/26



Bottle Reagent Autoclavable Screw Cap And Pour- ing Ring

Bottles Reagent narrow mouth, manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS in compliance to DIN ISO 4796 - 1 standards autoclavable screw cap and pouring ring, EN ISO 479.

- ESL56643 Capacity : 50 ML
- ESL56644 Capacity : 100 ML
- ESL56645 Capacity : 250 ML
- ESL56646 Capacity : 500 ML
- ESL56647 Capacity : 1000 ML
- ESL56648/2L Capacity : 2000 ML
- ESL56648/5 L Capacity : 5000 ML
- ESL56648/10 L Capacity : 10000 ML



Bottle Reagent, Clear Glass

Bottles Reagent narrow mouth, manufactured from ASTM E 438 TYPE 1 boro 3.3 glass in compliance to DIN ISO 4796 - 2 standards with standard ground joint & PP stopper, EN ISO 479.

- ESL56660 Capacity : 100 ml N/S 14/23
- ESL56661 Capacity : 250 ml N/S 19/26
- ESL56662 Capacity : 500 ml N/S 24/29
- ESL56663 Capacity : 1000 ml N/S 24/29
- ESL56664 Capacity : 2000 ml N/S 24/29



Mixed Glassware - Class Pack

This mixed glassware class pack contains one each of the following: Beakers (50ml, 100ml, 250ml, 600ml, 1000ml), Measuring cylinders (10ml, 25ml, 50ml, 100ml, 250ml), Conical flasks (100ml, 250ml, 500ml), Plastic beakers (50ml, 100ml, 250ml, 500ml, 1000ml), Bulb pipettes (5ml, 10ml, 25ml), Glass funnel - 75mm diameter, Evaporating basin - 75ml Crucible - 25ml

ESL56988





Bottle Dropping Glass Pipette

Pipette dropping bottle having a three piece pipette section comprising a glass dropper, high density polythene stopper with dust-proof head and vinyl teat. Both stopper and teat are highly resistant to chemical attack by acids and alkalis.

- ESL56656 Capacity : 30 ml
- ESL56657 Capacity : 60 ml
- ESL56658 Capacity : 120 ml
- ESL56656EU Capacity : 30 ml
- ESL56657EU Capacity : 50 ml
- ESL56658EU Capacity : 100 ml



Bottle Dropping Amber

Amber glass dropping bottles with interchangeable stopper and rubber teat

- ESL56649 Capacity : 30 ML
- ESL56650 Capacity : 60 ML
- ESL56651 Capacity : 120 ML



Bottle Round Boston HDPE

Narrow-Mouth Boston Round Bottle- Made of High density Polyethylene ,sold in packs

- ESL56665 Capacity : 4 ml 12pcs/pack
- ESL56666 Capacity : 8 ml 12pcs/pack
- ESL56667 Capacity : 15 ml 12pcs/pack
- ESL56668 Capacity : 30 ml 12pcs/pack
- ESL56669 Capacity : 60 ml 12pcs/pack
- ESL56670 Capacity : 125 ml 12pcs/pack
- ESL56671 Capacity : 250 ml 12pcs/pack
- ESL56672 Capacity : 500 ml 12pcs/pack
- ESL56673 Capacity : 1000 ml 6pcs/pack



Bottle Dropping Clear

Dropping Bottles, Manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS fitted with ground in interchangeable stopper and rubber teat.

- ESL56652 Capacity : 30 ML
- ESL56653 Capacity : 60 ML
- ESL56654 Capacity : 120 ML



Universal Bottle With Screw Cap

Threaded glass bottle clear PP 28, with PP Screw Cap, Clear & Amber Glass

- | | | |
|--------------------|--------------------|--------------------------|
| Clear Glass | Amber Glass | |
| ESL56706W | ESL56706WA | 30 ml Wide Mouth |
| ESL56706W/10 | ESL56706W/10A | 30 ml Wide Mouth PK/10 |
| ESL56706N/10 | ESL56706N/10A | 30 ml Narrow Mouth PK/10 |
| ESL56707 | ESL56707A | 60 ml |
| ESL56708 | ESL56708A | 100 ml |
| ESL56709 | ESL56709A | 250 ml |
| ESL56716 | ESL56716A | 500 ml |
| ESL56717 | ESL56717A | 1000 ml |



Bottle Round Boston LDPE

Narrow-Mouth Boston Round Bottle-Made of low density polyethylene ,sold in packs.

- ESL56676 Capacity : 8 ml 12pcs/pack
- ESL56677 Capacity : 15 ml 12pcs/pack
- ESL56678 Capacity : 30 ml 12pcs/pack
- ESL56679 Capacity : 60 ml 12pcs/pack
- ESL56680 Capacity : 125 ml 12pcs/pack
- ESL56681 Capacity : 250 ml 12pcs/pack
- ESL56682 Capacity : 500 ml 12pcs/pack
- ESL56683 Capacity : 1000 ml 6pcs/pack

Spray Bottle

Adjustable spray pattern. Pistol grip handle and bottle.

ESL56757





Bottle Round Boston Amber-HDPE

Amber Narrow-Mouth Boston Round Bottle-Made of High density Polyethylene ,sold in packs

ESL56686	Capacity : 4 ml	12pcs/pack
ESL56687	Capacity : 8 ml	12pcs/pack
ESL56688	Capacity : 15 ml	12pcs/pack
ESL56689	Capacity : 30 ml	12pcs/pack
ESL56690	Capacity : 60 ml	12pcs/pack
ESL56691	Capacity : 125 ml	12pcs/pack
ESL56692	Capacity : 250 ml	12pcs/pack
ESL56693	Capacity : 500 ml	12pcs/pack
ESL56694	Capacity : 1000 ml	6pcs/pack



Bottle Round Boston PP

Narrow-Mouth Boston Round Bottle-Made of Polypropylene , sold in packs.

ESL56697	Capacity : 4 ML	12pcs/pack
ESL56698	Capacity : 8 ML	12pcs/pack
ESL56699	Capacity : 15 ML	12pcs/pack
ESL56700	Capacity : 30 ML	12pcs/pack
ESL56701	Capacity : 60 ML	12pcs/pack
ESL56702	Capacity : 125 ML	12pcs/pack
ESL56703	Capacity : 250 ML	12pcs/pack
ESL56704	Capacity : 500 ML	12pcs/pack
ESL56705	Capacity : 1000 ML	6pcs/pack



Bottle Round Boston LDPE

Wide Mouth Boston Round Bottle-Made of High density Polyethylene ,sold in packs

ESL56710	Capacity : 30 ML	12pcs/pack
ESL56711	Capacity : 60 ML	12pcs/pack
ESL56712	Capacity : 125 ML	12pcs/pack
ESL56713	Capacity : 250 ML	12pcs/pack
ESL56714	Capacity : 500 ML	12pcs/pack
ESL56715	Capacity : 1000 ML	6pcs/pack



Bottle Round Boston HDPE

Wide-Mouth Boston Round Bottle-Made of low density polyethylene ,sold in packs.

ESL56718	Capacity : 30 ML	12pcs/pack
ESL56719	Capacity : 60 ML	12pcs/pack
ESL56720	Capacity : 125 ML	12pcs/pack
ESL56721	Capacity : 250 ML	12pcs/pack
ESL56722	Capacity : 500 ML	12pcs/pack
ESL56723	Capacity : 1000 ML	6pcs/pack



Bottle Round Boston Amber-HDPE

Amber Wide-Mouth Boston Round Bottle-Made of High density Polyethylene ,sold in packs

ESL56726	Capacity : 30 ML	12pcs/pack
ESL56727	Capacity : 60 ML	12pcs/pack
ESL56728	Capacity : 125 ML	12pcs/pack
ESL56729	Capacity : 250 ML	12pcs/pack
ESL56730	Capacity : 500 ML	12pcs/pack
ESL56731	Capacity : 1000 ML	6pcs/pack



Bottle Round Boston PP

Wide-Mouth Boston Round Bottle-Made of Polypropylene , sold in packs.

ESL56734	Capacity : 30 ML	12pcs/pack
ESL56735	Capacity : 60 ML	12pcs/pack
ESL56736	Capacity : 125 ML	12pcs/pack
ESL56737	Capacity : 250 ML	12pcs/pack
ESL56738	Capacity : 500 ML	12pcs/pack
ESL56739	Capacity : 1000 ML	6pcs/pack





Bottle Dropping Dispensing -LDPE

Drop-Dispenser Bottle Made of low density polyethylene,sold in packs

ESL56742	Capacity : 15 ML	12pcs/pack
ESL56743	Capacity : 30 ML	12pcs/pack
ESL56744	Capacity : 60 ML	12pcs/pack
ESL56745	Capacity : 125 ML	12pcs/pack
ESL56746	Capacity : 250 ML	6pcs/pack



Carboy Rectangular With Stopcock -HDPE

Rectangular Carboy with Stopcock-Made of High density Polyethylene.

ESL56754	Capacity : 5 LTR
ESL56755	Capacity : 10 LTR
ESL56756	Capacity : 20 LTR



Carboy With Spigot LDPE

Carboy with Spigot-Made of low density polyethylene.

ESL56750	Capacity : 10 LTR
ESL56751	Capacity : 20 LTR
ESL56752	Capacity : 50 LTR



Wash Bottle

Narrow-Mouth Wash Bottle-White Cap,sold in packs

ESL56760	Capacity : 125 ml	6pcs/pack
ESL56761	Capacity : 250 ml	6pcs/pack
ESL56762	Capacity : 500 ml	6pcs/pack
ESL56763	Capacity : 1000 ml	4pcs/pack



Wash Bottle 500ML

Wash bottles 500ml , Material : polyethylene

ESL56758



Wash Bottle Integral Side Spout

Wash Bottle-Integral Side Spout 1,sold in Packs.

ESL56774	Capacity : 125 ML	6pcs/pack
ESL56775	Capacity : 250 ML	4pcs/pack
ESL56776	Capacity : 500 ML	4pcs/pack
ESL56777	Capacity : 750 ML	4pcs/pack

NEW



Washing up Bowl

Material : P

ESL56992

Plastic Container

Made of Polypropylene and polyethylene Capacity 200 ML
Size : 5.5 X 7 X 9.5 cm



NEW

ESL57462



Wash Bottle WM LDPE

Wide Mouth Wash Bottle made of low density polyethylene ,Safety Labelled -Distilled Water ,sold in packs.

ESL56767	Capacity : 500 ML	6pcs/pack
ESL56769	Capacity : 1000 ML	1 Pc





Crystallizing Dishes

Dishes, Crystallizing, with Spout, DIN 12337

- ESL56779 Size : 70 X 40 MM
- ESL56780 Size: 80 X 45 MM
- ESL56781 Size : 95 X 55 MM



Petri Dish, Boro 3.3 Glass

petri dish, manufactured from boro 3.3 glass which can withstand repeated autoclaving. od 100mm, height 17mm

- ESL56785 OD 100mm, HEIGHT 17mm
- ESL56786 OD 100mm HEIGHT
- ESL56787 OD 60mm, HEIGHT 20mm

Petri Dish

Petri dish disposable

- ESL56788 Size : 100 mm x 14 mm Polypropylene autoclavable
- ESL56789 Size : 90 mm x 14 mm Radiation sterile vent-ps, 90mmx14mm
- ESL56790 Size : 90 mm x 14 mm Radiation sterile non vented-ps, 90mmx14mm



Thistle Funnel

Thick walled glass thistle funnel 11.5" -total length, 9.5" stem length. Reservoir is 1.5" in height with a 1.5" diameter and an interior diameter of 1". The outer diameter of the stem is .5" and the inner diameter is 2/16". This is a great unit for adding liquid to a narrow necked flask or other similar piece of lab ware.

Made of Borosilicate glass has the following heat tolerances: Strain Point -515°C Annealing Point 565°C Softening Point 820°C

ESL56819



Evaporating Dishes Ceramic

(EURO DESIGN) 75 x 30 mm(ODXH) made of porcelain, maximum temperature up-to 1150°C

- ESL56782/10 10 ML ESL56783 70 ML
- ESL56782/15 15 ML ESL56784 100 ML
- ESL56782/25 25 ML ESL56784/125 125 ML
- ESL56782 50 ML



Mortar & Pestle

Pestle & Mortar made of porcelain, maximum temperature up to 1150°C

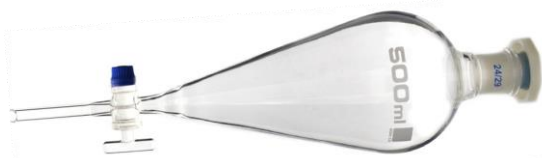
- ESL56792 Size : 100 mm x 70 mm (dxh)
- ESL56793 Size : 130 mm x 80mm (dxh)
- ESL56794 Size : 160 mm x 90mm (dxh)
- ESL56795 Size : 216 mm x 114mm (dxh)



Funnel Analytical PP , 100 mm -Long Stem

Funnels- long stem 100mm, Autoclavable Material : Polypropylene

ESL56805

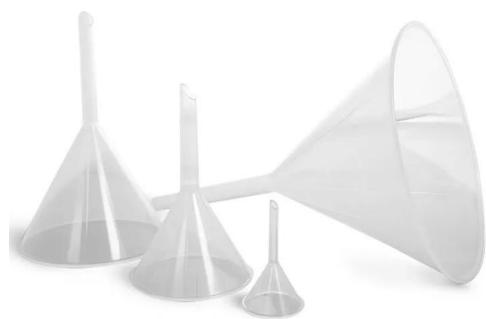


Separating Funnel

Separating funnel with glass stopcock and pp stopper Squibb shape

- ESL56807 Capacity : 125 ML NS : 29/32
- ESL56808 Capacity : 250 ML NS : 29/32
- ESL56809 Capacity : 500 ML NS : 29/32
- ESL56810 Capacity : 1000 ML NS : 29/32



**Funnel PP**

Funnel analytical made of polypropylene, with plain surfaces, short stem sold in packs

ESL56811	Diameter 35 mm	12 pcs/pack
ESL56812	Diameter 50 mm	13 pcs/pack
ESL56813	Diameter 55 mm	14 pcs/pack
ESL56814	Diameter 65 mm	15 pcs/pack
ESL56815	Diameter 75 mm	6 pcs/pack
ESL56816	Diameter 90 mm	7 pcs/pack
ESL56817	Diameter 100 mm	4 pcs/pack
ESL56818	Diameter 160 mm	2 pcs/pack

**Crucible Porcelain Medium Wall**

Made of porcelain with glazed medium wall supplied with lid

ESL56821	Capacity : 15 ml
ESL56822	Capacity : 25 ml
ESL56823	Capacity : 50 ml
ESL56824	Capacity : 70 ml
ESL56825	Capacity : 100 ml

**Crucible Porcelain High Wall**

Made of porcelain with glazed high wall supplied with lid

ESL56827	Capacity : 15 ML
ESL56828	Capacity : 20 ML
ESL56829	Capacity : 25 ML
ESL56830	Capacity : 30 ML
ESL56831	Capacity : 40 ML

**Watch Glass**

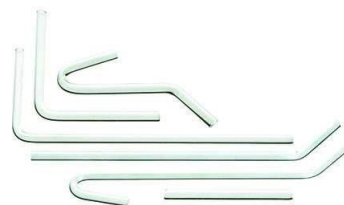
Work well as lids for flasks and beakers, or holding small samples for observation under a low-power microscope.

ESL56841	DIA 50 MM
ESL56842	DIA 60 MM
ESL56843	DIA 75 MM
ESL56844	DIA 90 MM
ESL56845	DIA 100 MM
ESL56846	DIA 125 MM

**Crucible Porcelain Low Wall**

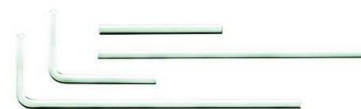
Made of porcelain with glazed low wall supplied with lid

ESL56834	Capacity : 15 ML
ESL56835	Capacity : 20 ML
ESL56836	Capacity : 25 ML
ESL56837	Capacity : 30 ML
ESL56838	Capacity : 40 ML

**Tube Delivery, Set Of 6**

Different shapes tubes mad of borosilicate glass, outside dia. 6 mm Set of 6.

ESL56849

**TUBE DELIVERY, SET OF 4**

Different shapes tubes mad of borosilicate glass, outside dia. 6 mm Set of 4. :1 - Short straight, 70 mm length1 - Long straight, 170 mm length1 - 90° bend arms, 60 mm and 160 mm length1 - 90° bend arms, 60 mm length

ESL56850





Tiles Porcelain With 12 Cavities

White, with 12 cavities 22mm diameter.

ESL56852

Brush Beaker

- ESL56859 Nylon 400 mm long Stainless steel wire handle. Size 150 x 85 mm
- ESL56860 Bristle Standard beaker brush on a wooden handle. 325mm total length, brush approximately 150mm x 75mm

Brush Burette

on stainless steel wire handle, for burette cap. 25ml, and 50 ML

- ESL56862 Nylon For burette cap. 25ml, head dia 16mm, length 610mm
- ESL56863 Nylon For burette cap. 50ml, head dia 19mm, length 760mm
- ESL56865 Bristle For burette cap. 25ml, head dia 16mm, length 610mm
- ESL56866 Bristle for burette cap. 50ml, head dia 19mm, length 760mm

Brush Flask

- ESL56868 Nylon For round bottom flask up-to 100 mm dia. on stainless steel wire handle. Overall length 330 mm,
- ESL56869 Bristle For round bottom flask up-to 100 mm dia. on stainless steel wire handle. Overall length 330 mm

Brush Test Tube

With fan-shaped end, on stainless steel wire handle.

- ESL56873 Nylon DIA 20 MM L 90 mm, total length 230 mm
- ESL56874 Nylon DIA 35 MM L 100 mm, total length 280 mm
- ESL56876 Bristle DIA 20 MM L 90 mm, total length 230 mm
- ESL56877 Bristle DIA 35 MM L 100 mm, total length 280 mm

Brush Pipette

for pipettes and tubes from 8 - 12 mm

- ESL56879 Nylon Head size 125 x 10 mm, overall length 650 mm
- ESL56880 Bristle Head size 125 x 10 mm, overall length 650 mm

Brush Cylinder

With fan-shaped end on stainless steel wire handle. Suitable for Erlenmeyer flasks, cylinders and beakers

- ESL56882 Nylon Total Length-300 mm, Brush length-110 mm, Brush dia.-40 mm
- ESL56883 Bristle Total Length-450 mm, Brush length-150 mm, Brush dia.-75 mm

Brushes

Glass Stirring Rod

Glass rod made of soda glass

- ESL56854 Length 150 mm dia App. 6 mm
- ESL56855 Length 200 mm dia App. 6 mm
- ESL56856 Length 250 mm dia App. 6 mm
- ESL56857 Length 3000 mm dia App. 6 mm





Flask Filtration

Reduced pressure these special flasks serve as collecting vessel for the filtrate. Made of borosilicate glass 3.3 very good chemical resistance minimal thermal expansion high resistance to thermal shocks autoclavable ••Erlenmeyer shape , with Glass gose nozzle.

- ESL57003 Capacity : 50 ml
- ESL57004 Capacity : 100 ml
- ESL57005 Capacity : 250 ml
- ESL57006 Capacity : 500 ml
- ESL57007 Capacity : 1000 ml
- ESL57008 Capacity : 2000 ml
- ESL57009 Capacity : 3000 ml



Funnel Boro Glass

Manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS. These funnels comply to ISO, DIN AND USP standards.

- ESL56796 Diameter 45 MM
- ESL56797 Diameter 55 MM
- ESL56798 Diameter 65 MM
- ESL56799 Diameter 70 MM
- ESL56800 Diameter 75 MM
- ESL56801 Diameter 80 MM
- ESL56802 Diameter 100 MM
- ESL56803 Diameter 150 MM



Funnel Analytical PP , 100Mm Long Stem

Funnels- long stem 100mm autoclavable material : polypropylene

ESL56805



Chlorine Test Strip

- ESL57040 5 TEST 0 - 0.5 - 1 - 3 - 5 mg/L Cl₂ 100 strips/Pk
- ESL57041 20 TEST 0 - 0.5 - 1 - 3 - 5 - 10 - 20 mg/L Cl₂ 100 strips/Pk
- ESL57042 300 TEST 0 - 25 - 50 - 100 - 200 - 300 mg/L Cl₂ 100 strips/pk
- ESL57043 1000 TEST 0 - 50 - 100 - 250 - 500 - 1000 mg/L Cl₂ 100 strips/pk



Porcelain Buchner Funnel

Made pf High-quality ceramic material, strong and corrosion-resistant. used for filtration purposes. It consists of a flat, perforated porcelain plate (known as the Büchner plate) with a cylindrical funnel-like shape attached to it

	Funnels with Perforated Filter Disc	Tube Dia	Hieght	NO of perforations
ESL57010	50 ml	14 mm	95 mm	19
ESL57011	120 ml	20 mm	120 mm	37
ESL57012	200 ml	24 mm	140 mm	61
ESL57013	400 ml	28 mm	170 mm	91
ESL57014	600 ml	32 mm	190 mm	127



Filter Paper

Quantitative Analysis filter papers Low Ash content 0.07%(Acid wash treated) High wet strength Made of 100% cotton liners GRADE NO

- ESL57031 DIA 7 CM
- ESL57032 DIA 9 CM
- ESL57033 DIA 11 CM
- ESL57034 DIA 12.5 CM
- ESL57035 DIA 15 CM
- ESL57036 DIA 18 CM



Filter Paper

Qualitative Analysis filter papers Low Ash content 0.07%(Acid wash treated) High wet strength Made of 100% cotton liners GRADE NO 1

- ESL57020 DIA 7 CM
- ESL57021 DIA 9 CM
- ESL57022 DIA 11 CM
- ESL57023 DIA 12.5 CM
- ESL57024 DIA 15 CM
- ESL57025 DIA 18 CM



Stand Base A-Shaped

Used for stand rod holder. Hole : 10 mm, without threads Material : Cast iron Part of Reversible Pendulum.

ESL57067	Side length 120 mm	Dimension : (L) 12.00 x (W) 12.00 x (H) 3.00 cm, Weight : 0.400 kg
ESL57068	Side length 140 mm	Dimension : (L) 14.00 x (W) 14.00 x (H) 3.00 cm, Weight : 0.500 kg
ESL57069	Side length 190 mm	Dimension : (L) 19.00 x (W) 19.00 x (H) 4.50 cm, Weight : 2.000 kg
ESL57070	Side length 240 mm	Dimension : (L) 24.00 x (W) 24.00 x (H) 6.00 cm, Weight : 4.000 kg
ESL57071	Side length 270 mm	Dimension : (L) 270.00 x (W) 26.00 x (H) 6.00 cm, Weight : 6.000 kg, Material : Cast iron



Stand Road

Used as pillars in some experiments. Material : Stainless steel solid Part of Mechanics Kit for Senior High School.

ESL57073	DIA 10 X 100 mm,	Dimension : (L) 10.00 x (W) 1.00 x (H) 1.00 cm, Weight : 1.000 kg
ESL57074	DIA 10 X 1500 mm	Dimension : (L) 150.00 x (W) 1.00 x (H) 1.00 cm, Weight : 0.915 kg
ESL57075	DIA 10 X 500 mm	Dimension : (L) 50.00 x (W) 1.00 x (H) 1.00 cm, Weight : 0.200 kg
ESL57076	DIA 9 X 500 mm	Dimension : M8 x 9 mm, Part of Stand Base and Rod, Steel plate
ESL57077	DIA 10 X 1500 mm	Dimension : (L) 1.00 x (W) 1.00 x (H) 150.00 cm, Weight : 0.920 kg



Base Retort

Brass dial head about 40mm dia., Divided and marked in 100 divisions, vertical scale 10-0-10mm, fitted on heavy brass disc, with 3 pointed legs, distance between legs 40mm.

ESL57079	16CM X 10CM (length x width)
ESL57080	20CM X 12.5CM (length x width)
ESL57081	25CM X 16CM (length x width)



Steel Rod

A range of Steel rods to suit all Stand bases.

ESL57082	50Cm x 11mm (length x dia.)
ESL57083	60Cm x 11mm (length x dia.)
ESL57084	75Cm x 12mm (length x dia.)
ESL57085	100Cm x 12mm (length x dia.)

Clamp Universal

Clamp for general use.

Size :
Total length : Dia 225 mm
Jaws opening : dia. 70 mm

Material : Aluminium die casting with stainless steel bar Jaws are layered with cork sheet

Completed with spiral spring, butterfly nuts and screw

Dimension : (L) 22.00 x (W) 7.00 x (H) 3.00 cm

Weight : 0.170 kg



ESL57107

Stand Set Base And Road , Steel Base

Stand Base and Rod, Steel Plate Uses as a tool for assembling laboratory equipment

Size of stand base: 210 x 140mm, thickness

4mm Stand rod: Dia. 10 x 500mm

Material: Stand base steel plate, stand rod:

stainless steel Set **Consists of :** Square stand base

Stand rod **Dimension :** 51.60 (L) x 22.60 (W) x

3.80cm (H) **Weight :** 1.426Kg

ESL57087

Stand Set Base & Road , Steel Base

Stand Set Base & Road , Steel Base

ESL57088



Retort Ring With Boss-head

Open ring retort support with boss-head made of Nickel chrome plated steel

ESL57109	Dia 60 mm
ESL57110	Dia 80 mm
ESL57111	Dia 100 mm





Burette Clamp

ESL57094	Single	Polypropylene .Suitable for all burette up-to 100ml.
ESL57095	Double	Polypropylene .Suitable for all burette up-to 100ml.
ESL57098	Advanced, single	Comprising a high strength alloy casting jaws. Suitable for all burettes upto 100ml.
ESL57099	Advanced, double	Comprising a high strength alloy casting jaws. Suitable for all burettes upto 100ml.



Clamp Universal, Assorted

ESL57101	4 Finger Cork Lined	Used to hold objects at stative. Size : Grip range 20 - 50 mm, Material :Steel coated with Ni/Cr and paint, Equipped with spring and bolt fasteners, Dimension : (L) 30.00 x (W) 10.00 x (H) 7.50 cm, Weight :0.180 KG
ESL57102	4 Finger Cork Lined With Bosshead	This universal retort stand clamp is made from aluminium and has 4 jaws. The jaws allow objects from 2 - 90 mm in diameter to be clamped securely. The design of the jaws ensures a firm grip at all angles of opening. The four interlocking jaws are cork lined. Overall length is 24 cm.
ESL57103	3 Finger With Bosshead	PVC coated die-cast jaw, with clamping to my-bar screw through swivels, mounted on 13.5 cm rod of dia. 8 mm jaw. Capacity 100mm and overall length 25 cm.
ESL57104	3 Finger, Swivel	Three Finger Clamp, Swivel used to hold object at stative rod Size: Grip of 2-70mm, Material: Zinc alloy with Ni/Cr plated Without coil spring, The holder can be swivelled and fingers coated with PVC, One end is equipped with clamps and fasteners for mounting on the stative rod, Dimension : 30.00 (L) x 10.00 (W) x 7.50cm (H)”
ESL57105	2 Prong Single Adjustable Universal With Boss-Head	This clamp is ideal for use with straight sides glassware and apparatus such as burette, tubes flask necks. The jaws are coated with non slip vinyl sleeve. Can hold objects of 8-30 mm dia. Overall length 22 cm.



Boss Head

ESL57114	Cast alloy	For use with laboratory stands, this popular boss head is made of die caste alloy. It accepts rods up to 16mm in diameter at a right angle to one another. Metal thumbscrews with blue plastic heads allow for adjustment. Measures approximately 11.7 x 3 x 3 cm in size.
ESL57115	Square for rod	Threaded metal one piece clamping screws •Able to hold rods up to 15 mm in diameter •Holds rods orthogonal (90 degrees) to one another. •All metal constructions to carry heavy loads and prevent torque damage
ESL57116	Die caste	Threaded metal one piece clamping screws Able to hold rods up to 16 mm in diameter Holds rods orthogonal (90 degrees) to one another. All metal constructions to carry heavy loads and prevent torque damage
ESL57117	Heavy duty	Thicker than normal 7 mm threaded clamping screws Thicker casting to support more load Accepts up to 16 mm rods Made of high strength powder coated alloy All metal constructions to carry heavy loads and prevent torque damage





Suspension Clamps

Used to suspend a thermometer over a hot plate or a specific heat specimen. Clamp holds items at a distance of 110mm from the support rod. The hook is adjustable and locks at any angle.

ESL57090



Tong Beaker

Made of Stainless Steel with Coated Ends Rust free with superior quality Holds beakers from 50mL to 2000mL

ESL56891 Rubber lined jaw

ESL56892 Silicon lined jaw



Tong Crucible Straight

General purpose straight tongs, with corrugated jaws, used for handling of hot apparatus. Steel Chrome Plated,

ESL56885 Length : 150 MM St. Steel

ESL56886 Length : 200 MM St. Steel



Crucible Tongs With Bow

Crucible tongs with bow, General purpose tongs with bow and corrugated jaws used for handling hot apparatus.

ESL57118 Blackened steel 15CM length

ESL57119 Blackened steel 20CM length

ESL56888 St. Steel 15CM length

ESL56889 St. Steel 20CM length



Tong-Beaker,With Rubber Sleeves Cover

Jaws covered with rubber sleeves,Overall length of tong 30cm approx. Made of stainless steel

ESL56895



Tong Flask St. Steel Cork Lined Jaw

Stainless steel flask tongs with cork lined jaws. Fits flasks of any shape from 100-2000ml

ESL56894



Test Tube Stand Z Pattern - 200 X 125 X 75mm

Sturdy, corrosion-resistant (Z) pattern with three rows of holes. Stands can nest together for easy storage. Not suitable for use with solution containing mercury salts.

Size: 200 x 125 x 75mm

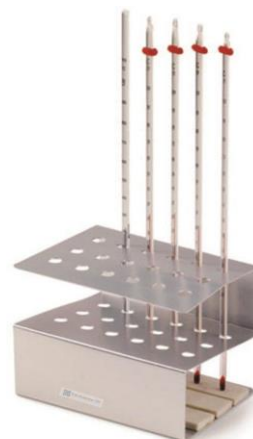
Five holes: 28mm

diameter Six holes:

19mm diameter

Eight holes: 13mm diameter

ESL57123



Thermometer Stand

Thermometer Stand Supports 18 mm thermometers. Metal stand with a foam rubber cushion baseplate to protect thermometer bulbs. Size 165 x 120 x 125 mm.

ESL57122



Funnel Stand

Wooden, polished, with clamping screws. Rods are approx. 460 mm Length

ESL57125 Single Rod dia 17.5 mm. Single base size 200 x 110 mm.

ESL57126 Double Rod dia 16 mm. Double base size 290 x 110 mm





Burette Stand
Made of Hardwood

burette rack made of hardwood - Stands 19.5" tall with single and Double arm to hold a burette. Base measures 7.75" (196.85 mm) x 4.25" (107.95mm)

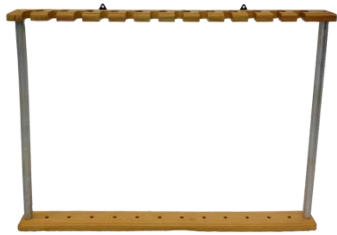
Smallest allowable diameter burette or tube is 10 mm diameter. with a threaded hole for the wooden support dowel.

Black nylon thumb screws

Single
Double

ESL57096
ESL57097

NEW



NEW

Burette Rack Wooden

natural wood burette rack is perfect for storing and protecting burets in the lab. Dimensions: 80 x 7.5 x 57.5 CM capacity : 12 burette up to 2 cm diameter , coming with wall mounting brackets

ESL57093

NEW



TEST Tube Holder With Wooden Handel

Brass with wooden handle clamp for tubes up to 45 mm diameter.

ESL57147



Test Tube Rack Wooden, Test tube stand wooden, 2 tier, wooden support with dovetail joining and 12 holes in two rows.

ESL57144 12 X 22mm.

ESL57145 12 X 25mm.



Test Tube Holder Wooden

Made of hard wood with steel spring , the jaws will accept tubes up to 20 mm diameter.

ESL57148

Test Tube Rack Plastic

Test Tube Rack, Plastic
Used for test tube storage 10mm dia.

To 16mm dia. Material: Plastic injection, knock-down system
Consists of 12 holes 18mm dia.

Dimension : 18.00 (L) x 6.30 (W) x 10.50 cm (H)

Weight : 0.100Kg



ESL57128

Test Tube Half Rack

Poly-wire blue re-enforced nylon

ESL57130 Dia ,13 MM

ESL57131 Dia ,16 MM

ESL57132 Dia ,20 MM

ESL57133 Dia ,25 MM

ESL57134 Dia ,30 MM



Test Tube Rack

Poly-wire blue-Re-enforced nylon

ESL57135 Dia ,13 MM

ESL57136 Dia ,16 MM

ESL57137 Dia ,20 MM

ESL57138 Dia ,25 MM

ESL57139 Dia ,30 MM



Test Tube Rack

Poly-grid test tube rack
blue polypropylene

ESL57141 Dia ,16 MM

ESL57142 Dia ,20 MM

ESL57143 Dia ,25 MM



Test Tube Stand (Wire Pattern)

Test tube stand (wire pattern) - 13mm x 90 Tubes

ESL57129



Test Tube Holder-Wire Pattern

Plated spring steel wire holder with finger grip. The jaws will accept tubes up to 40 mm diameter and their alignment maintained by a wire collar. Overall length 16 cm.

ESL57149

NEW



Draining Basket

A basket with wide net like structure, useful for draining different laboratory apparatus after washing.

Repeatedly autoclaved.

Material: Polypropylene

ESL57147





Drying Rack,
Wall mounted corrosion free

- ESL57151** 20 PEGS Made of abs material
- ESL57152** 30 PEGS Made of steel / polyester
- ESL57153** 48 Pegs ,coated wire Plastic coated steel , wire tip are PVC coated size 500 x 400 mm
- ESL57154** 55 Pegs,coated wire Coated steel , wire tip are PVC coated size 650 x 360 mm



Tripod Stand

all steel welded. Finished plated and legs are bent outward for stability.

- ESL57155** Length of one side 12.5 cm Top triangular,Height 20cm.
- ESL57156** Length of one side 15 cm Top triangular, Height 20cm.
- ESL57158** dia 12.5 cm Top circular,Height 20cm.
- ESL57159** dia 15 cm Top circular,Height 20cm.



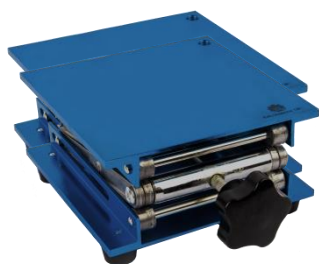
NEW



Basic Chemistry Bundle Kit

- includes:
- 10 x Natural Gas Bunsen Burners
 - 10 x Tripod stands (130 x 200mm)
 - 10 x Bench Mats With Calcium Silicate (230 x 230mm)
 - 10 x 65mm Triangles Pipeclay
 - 10 x 150mm x 150mm Iron Gauze Mats

ESL57089



Laboratory Jack

Laboratory jack made of Aluminium

- ESL57161** 10 X 10 CM Max. Hight : 18cm
- ESL57162** 15 X 15 CM Max. Hight : 25cm
- ESL57163** 20 X 20 CM Max. Hight : 28cm

Cork Stopper Bark

Cat. No	Size	Top	Length	Bottom
ESL57166	000	6	13	4
ESL57167	00	8	13	5
ESL57168	0	10	13	7
ESL57169	1	11	16	8
ESL57170	2	13	17	9
ESL57171	3	14	19	10
ESL57172	4	16	20	11
ESL57173	5	17	22	12
ESL57174	6	19	24	13
ESL57175	7	21	25	15
ESL57176	8	22	27	17
ESL57177	9	24	29	18
ESL57178	10	25	31	20
ESL57179	11	27	31	21
ESL57180	12	29	31	22
ESL57181	13	30	31	24
ESL57182	14	32	31	25
ESL57183	15	33	31	27
ESL57184	16	35	38	27
ESL57185	17	36	38	30
ESL57186	18	38	38	31
ESL57187	19	40	38	33
ESL57188	20	41	32	34

Cork Stopper Assorted PK

ESL57189





Stopper Rubber

Made of Solid, superior quality rubber resistance to acid, alkali and ammonia, suitable for schools, colleges and Universities.

Cat. No	Top	Length	Bottom
ESL57195	7	16	5
ESL57196	9	16	6
ESL57197	10.5	20	8
ESL57198	11.5	20	9
ESL57199	12.5	20	10
ESL57200	14	24	11
ESL57201	16	24	13
ESL57202	18	24	15
ESL57203	20.5	26	27
ESL57204	21	26	18
ESL57205	22.5	28	19
ESL57206	24.5	28	21
ESL57207	26.5	28	23
ESL57208	28.5	28	25
ESL57209	31	32	27
ESL57210	31	32	29
ESL57211	36	35	31
ESL57212	38.5	38.5	33
ESL57213	45.5	36.5	35
ESL57214	42.5	40.5	38
ESL57215	49.5	40.5	40



Stopper Rubber One Hole, Pk Of 50 Pcs

Assorted containing 7 pcs. Each of size 8, 9, 11, 13, 15mm bottom dia and 3 pcs. Each of 17, 21, 23, 25, 29mm bottom dia with one hole. Pack of 50 pcs. Any other sets can be supplied as per specifications.

ESL57219



Stopper Rubber Two Holes, Pk Of 50 Pcs

Assorted containing 7 pcs. Each of size 8, 9, 11, 13, 15mm bottom dia and 3 pcs. each of 17, 21, 23, 25, 29mm bottom dia. With two holes. Pack of 50 pcs. Any other sets can be supplied as per specifications.

ESL57236



Cork Borer Sharpener

Cork Borer Sharpener, Die-cast alloy. Suitable for all borers

ESL57279

Stopper Rubber, Assorted Size Pack

Assorted Size Pack

NEW

ESL57217



Cork Borer Set 6

Nickel-plated finish. Complete with cleaning rod having good grip and pipes of thick gauge. Set of 6 sizes 4-10mm

ESL57277



Cork Borer Set 12

Nickel-plated finish. Complete with cleaning rod having good grip and pipes of thick gauge. Set of 12 sizes 4-18mm

ESL57278





Stopper Rubber Silicon

Made of Solid, superior quality Silicon resistance to acid, alkali and ammonia, suitable for schools, colleges and Universities.

Cat. No	Top	Length	Bottom
ESL57253	7	16	5
ESL57254	9	16	6
ESL57255	10.5	20	8
ESL57256	11.5	20	9
ESL57257	12.5	20	10
ESL57258	14	24	11
ESL57259	16	24	13
ESL57260	18	24	15
ESL57261	20.5	26	17
ESL57262	21	26	18
ESL57263	22.5	22	19
ESL57264	24.5	28	20
ESL57265	26.5	28	23
ESL57266	28.5	28	25
ESL57267	31	32	27
ESL57268	31	32	29
ESL57269	36	35	31
ESL57270	38.5	38.5	33
ESL57271	45.5	36.5	35
ESL57272	42.5	40.5	38
ESL57273	49.5	40.5	40



Tubing Glass

Made of Borosilicate glass 3.3, light wall, length 0.5mtr approx.

ESL57283	Dia : 5mm
ESL57284	Dia : 6mm
ESL57285	Dia : 7mm
ESL57286	Dia : 8mm
ESL57287	Dia : 9mm
ESL57288	Dia : 10mm
ESL57289	Dia : 12mm
ESL57290	Dia : 14mm
ESL57291	Dia : 16mm
ESL57292	Dia : 18mm
ESL57293	Dia : 20mm
ESL57294	Dia : 25mm



Tubing Clip

Tubing clip made of spring steel plated wire according to Mohr

ESL57351	Mohr	For tube dia up to 45 mm
ESL57352	Mohr	For tube dia up to 65 mm

Nickel plated, with projecting plate to prevent damage to tubing by end of screw, with hinged bottom bar for direct fitting and removed without access to ends of tube. Max. Opening 15 mm

ESL57353	Hoffmann	Max. Opening 15 mm
ESL57354	Hoffmann	Max. Opening 25 mm



Glass Tube Cutter

Glass tubing cutter, up to an outer diameter of 40mm.

ESL57349





Tubing Connector

Polypropylene, riffled end for rubber tubing. May be autoclaved. To fit tubing nominal bore.

- ESL57342 Y SHAPE 4 MM
- ESL57343 Y SHAPE 6 MM
- ESL57344 Y SHAPE 8 MM
- ESL57346 T SHAPE 4 MM
- ESL57347 T SHAPE 6 MM
- ESL57348 T SHAPE 8 MM



Visking Tubing

A cellulose based, selectively permeable material, in tube form, which can be used to demonstrate osmosis and dialysis separation techniques. 14mm diameter.

- ESL57356 30 Mtr
- ESL57357 5 Mtr

Tubing Silicon

Seamless, non toxic, translucent very flexible suitable for connecting to glass, Pack per meter.

- ESL57314 2mm x 1mm (Bore x Wall Thickness).
- ESL57315 3mm x 1mm (Bore x Wall Thickness).
- ESL57316 3mm x 1.5mm (Bore x Wall Thickness).
- ESL57317 4mm x 1mm (Bore x Wall Thickness).
- ESL57318 4mm x 1.5mm (Bore x Wall Thickness).
- ESL57319 5mm x 1mm (Bore x Wall Thickness).
- ESL57320 5mm x 1.5mm (Bore x Wall Thickness).
- ESL57321 6mm x 1mm (Bore x Wall Thickness).
- ESL57322 6mm x 1.5mm (Bore x Wall Thickness).
- ESL57323 6mm x 2mm (Bore x Wall Thickness).
- ESL57324 6mm x 3mm (Bore x Wall Thickness).
- ESL57325 7mm x 1.5mm (Bore x Wall Thickness).
- ESL57326 7mm x 2mm (Bore x Wall Thickness).
- ESL57327 8mm x 1.5mm (Bore x Wall Thickness).
- ESL57328 8mm x 2mm (Bore x Wall Thickness).
- ESL57329 8mm x 3mm (Bore x Wall Thickness).
- ESL57330 9mm x 2mm (Bore x Wall Thickness).
- ESL57331 10mm x 2mm (Bore x Wall Thickness).
- ESL57332 10mm x 3mm (Bore x Wall Thickness).
- ESL57333 12mm x 2mm (Bore x Wall Thickness).
- ESL57334 12mm x 3.5mm (Bore x Wall Thickness).
- ESL57335 14mm x 3mm (Bore x Wall Thickness).
- ESL57336 14mm x 3mm (Bore x Wall Thickness).
- ESL57337 16mm x 3mm (Bore x Wall Thickness).
- ESL57338 25mm x 4mm (Bore x Wall Thickness).

NEW



Tubing Connector U Shape Plastic

Polypropylene, riffled end for rubber tubing. May be autoclaved. To fit tubing nominal bore.

- ESL57340 U SHAPE 6 MM
- ESL57341 U SHAPE 8 MM

Tubing Connector U Shape Glass

Glass, riffled end for rubber tubing. To fit tubing nominal bore.

- ESL57340G U SHAPE 6 MM
- ESL57341G U SHAPE 8 MM



NEW

Viscometer Ostwald

Suitable for transparent liquids manual measurement, foaming liquids, liquid mixture with highly volatile components, and high or low temperature measurements

ESL57865



Tubing Rubber

Soft quality, resistant to acid and alkalis. Pack of 10 meters. Orange Color.

- ESL57298 3 mm x 1 mm (Bore x Wall Thickness).
- ESL57299 4 mm x 1 mm (Bore x Wall Thickness).
- ESL57300 5 mm x 1.5 mm (Bore x Wall Thickness).
- ESL57301 6 mm x 1.5 mm (Bore x Wall Thickness).
- ESL57302 7 mm x 1.5 mm (Bore x Wall Thickness).
- ESL57303 8 mm x 1.5 mm (Bore x Wall Thickness).
- ESL57304 9 mm x 2 mm (Bore x Wall Thickness).
- ESL57305 10 mm x 2 mm (Bore x Wall Thickness).
- ESL57306 12 mm x 2 mm (Bore x Wall Thickness).
- ESL57307 15 mm x 3 mm (Bore x Wall Thickness).
- ESL57308 16 mm x 3 mm (Bore x Wall Thickness).
- ESL57309 19 mm x 3 mm (Bore x Wall Thickness).
- ESL57310 20 mm x 3.5 mm (Bore x Wall Thickness).
- ESL57311 25 mm x 3.5m m (Bore x Wall Thickness).





Bunsen Burner Nickel

Nickel plated burner tube with rotatable air regulator and cylindrical connector. Mounted in pressure die costed base.

- ESL57362 For LPG gas
- ESL57363 For natural gas



Economy Bunsen Burner Adjustable

An excellent adjustable bunsen burner for use with natural gas. Heavy-duty cast iron base provides an extra measure of stability. The unit has a chrome-plated steel tube with air regulator and threaded needle valve. Junior high and high school level.

ESL57361



Bunsen Burner

Piezo ignition, Adjustable flame, Refillable butane tank, Applications: Sterilizing, Welding, Heating, Technical Specification, Max. Temperature 1300 Fuel tanker capacity 45 g, Working time 60 Min, **Dimension** : (H x W x D) mm 92 x 115 x 79

- ESL57367 PORTABLE
- ESL57368 LAB TORCH
- ESL57369 LAB PORTABLE

Heating



Spirit Lamp Glass

Reference Capacity 100 (ml)
Outside Ø 70 (mm)

ESL57370

Spirit Lamp St.

Methylated Spirit Burner

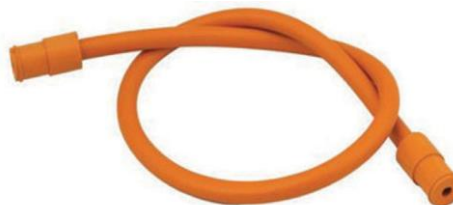
ESL57371



Bench Mats

Made of cork, ideal for use with round bottom flask,

- ESL57372 For flask capacity 50-100 ml Diameter 80 mm
- ESL57373 For flask capacity 250 ml Diameter 100 mm
- ESL57374 For flask capacity 500 ml Diameter 120 mm



Neoprene Bunsen Burner Hose,

Connect your burner to a fuel source.

- ESL57359 Length 2 FT (.6M)
- ESL57360 Length 3 FT (.9M)

Bench Mats

Made from calcium silicate, ideal for use under Bunsen burner, well finished edges

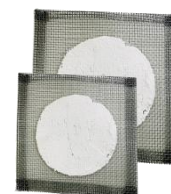
- ESL57375 Size : 150 x 150 mm
- ESL57376 Size : 200 x 200 mm
- ESL57377 Size : 230 x 230 mm
- ESL57378 Size : 300 x 300 mm



Wire Gauze With Ceramic Centre

Wire gauze with ceramic centres - high quality and extra strong

- ESL57379 Size : 125 x 125 mm
- ESL57380 Size : 150 x 150 mm



Wooden Splints

Soft dry wood for general laboratory use. Size 5 x 140 mm.

- ESL57386 Pack of 100
- ESL57387 Pack of 1000



Spatula With Spoon

One end flat and the other end spoon form, polished..

- ESL57390 Total length 12.5 cm
- ESL57391 Total length 15 cm
- ESL57392 Total length 20 cm





Trowel

Stainless steel, double ended with trowel-shaped scoops for handling large quantities of material. Length 175 mm and mean width 15 mm

ESL57396

Pip-clay Triangle

On stout iron wire, pipe-clay stems. Pk/10

- ESL57382 One side length 55 mm
- ESL57383 One side length 65 mm
- ESL57384 One side length 75 mm



Spatula Chattaway

One end flat and the other end bent up, polished.

- ESL57388 Total length 15 cm
- ESL57389 Total length 20 cm



Nuffield Raised Centre 14 cm

Raised centre section, one end flat and bent up and other end formed into a scoop. Stainless steel, length 14 cm

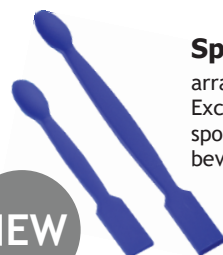
ESL57395



Spatula Spoon PP

range of robust, general purpose PP spatulas - Excellent chemical resistance - Scraper plus spoon configuration - Suitable for use in food and beverage industry - Autoclavable

- ESL57404/15 Spatula Spoon PP 150MM
- ESL57404/20 Spatula Spoon PP 200MM



NEW



NEW

Measuring Scoop

EDU dual purpose scoop is designed to combine the function of a scoop, weigh boat, & funnel to make this product economically beneficial. These scoops have locking tabs that help to retain materials. These scoops can withstand powders, gels, and semi-solids

- ESL57403/2 Measuring Scoop PP 2ML
- ESL57403/5 Measuring Scoop PP 5ML
- ESL57403/10 Measuring Scoop PP 10ML
- ESL57403/25 Measuring Scoop PP 25ML
- ESL57403/50 Measuring Scoop PP 50ML
- ESL57403/100 Measuring Scoop PP 100ML
- ESL57403/250 Measuring Scoop PP 250ML
- ESL57403/500 Measuring Scoop PP 500ML
- ESL57403/1000 Measuring Scoop PP 1000ML

Magnetic Stirring Bar

PTFE coated magnetic stirrer bar a raised ring in the middle to aid string



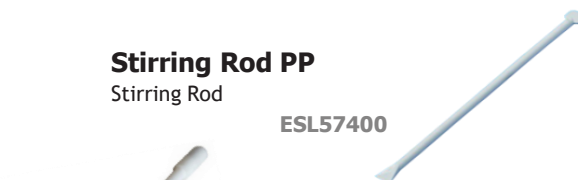
NEW

SKU	Size	Pack Size
ESL57397/138	8 x 13	10
ESL57397/168	8 x 16	10
ESL57397/198	8 x 19	10
ESL57397/228	8 x 22	10
ESL57397/258	8 x 25	10
ESL57397/308	8 x 30	10
ESL57397/388	8 x 38	10
ESL57397/418	8 x 41	10
ESL57397/518	8 x 51	5
ESL57397/648	8 x 64	5

Stirring Rod PP

Stirring Rod

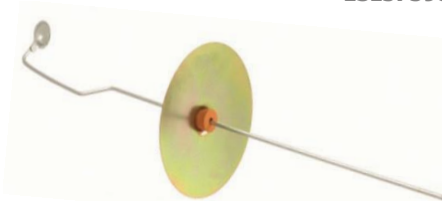
ESL57400



Magnetic Retriever

Magnetic Retriever PTFE/Alnico V Magnet, 30cm, 2pcs/pack

ESL57398



Deflagrating Spoon With Cap

Steel cup and rod held by cork in aluminium cap, length 35 cm and diameter of cap 90 mm cup 18 mm

ESL57402



Wire Holder, Plastic Handle

Wire holder with plastic handle

ESL57408

Tube Combustion

Borosilicate glass, open both ends, for oxidation and reduction of chemical substances. Length 30 cm.

- ESL57410 OD 24 mm, Bore 20 mm
- ESL57411 OD 22mm, Bore 17mm
- ESL57412 OD 17mm, Bore 11mm



Tube Combustion, Borosilicate Glass

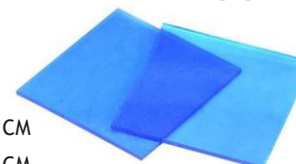
Borosilicate glass, for reduction of metal oxides with hydrogen. A small hole in the side of the lower end of the tube allows for escape of gas. Length 15 cm and dia.2.5 cm.

ESL57413

Cobalt Glass

For potassium dry reaction

- ESL57405 SIZE : 7.5 X 5 CM
- ESL57406 SIZE : 5 X 2.5 CM





Universal Indicator Paper PH 1-14

This test paper covers the range pH1 to 14. Box of 10 books each of 20 leaves, 65 x 10mm. 12 colour matches are printed on each book cover.

ESL57421



Litmus Paper Red

10 books each with 20 strips.

Red Pk/200 Strips: Range pH 8-5, colour change.

Litmus Paper Red Pk/100 strips

ESL57415

ESL57415/100

Blue Pk/200 Strips

Range pH 8-5, colour change

Blue Litmus Paper Pk/100 strips

ESL57417

ESL57417/100

Neutral Pk/200 Strips

Colour change to red or neutral.

Neutral Pk/100 Strips

ESL57419

ESL57419/100



Parafilm

No matter whether you wish to seal beakers, Erlenmeyer flasks, weighing bottles or graduated cylinders, the highly elastic and stretchable Parafilm® M laboratory film fits the opening of any vessel. It saves specimens from contamination or evaporating. Furthermore, it prevents fallen over flasks from spilling. Parafilm® M stretches up to 200 % of its original size and clings even around irregular shapes and surfaces.

ESL57435 Size : 100 mm x 38 mtr

ESL57436 Size : 100 mm x 75 mtr

ESL57437 Size : 50 mm x 75 mtr



Cobalt Chloride Test Paper

Heat sensitive, colour change blue to pink with moisture. Depending upon humidity, papers may be pink on receipt and will need drying before use. Box of 10 books.

ESL57425



Temperature Strip

A self adhesive liquid crystal thermometer with a temperature range of 10° C to 40° C. Approx size: 130mm x 20mm

ESL57426



Universal Indicator Paper PH 1-11

Range pH 1 to 11 in clear colour coded steps. Colour chart is on the side of the plastic dispenser. Box of 10 books with twenty strips. 5m of 6mm paper.

ESL57423

G Clamp

- ESL57427 Drop forged. Length 250 mm
- ESL57428 Drop forged. Length 200 mm
- ESL57429 Drop forged. Length 150 mm
- ESL57430 Drop forged. Length 125 mm
- ESL57431 Drop forged. Length 100 mm
- ESL57432 Drop forged. Length 75 mm
- ESL57433 Drop forged. Length 50 mm



Weight Ring

Made of cast iron PVC coated ring for stabilizing Erlenmeyer flask immersed into water .

ESL57440 For flask sizes: 100 to 500 ML , Weight 0.22 KG

ESL57441 For flask sizes: 250 to 1000 ML , Weight 0.45 KG





Lab Thermometer

Product Material: Glass tube with Kerosene filling (except * - special brown filling for high range), Product **Dimension** :s 6.5mm dia x length

ESL57544	White bkd blue spirit	Range: -10 to 50 °C, Division: 0.5 C, Accuracy: /-0.5 C @ 35 C
ESL57545	White bkd blue spirit	Range: -30 to 120 °F, Division: 1.0 F, Accuracy: /-0.2 F @ 95F
ESL57546	White bkd blue spirit	Range: -35 to 50 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57547	White bkd blue spirit	Range: -20 to 110 °C &F, Division: 1.0 C&F, Accuracy: /-1.0 C @ 35C
ESL57548	White bkd blue spirit	Range: -20 to 150 °C&F, Division: 1.0 C&F, Accuracy: /-1.0 C @ 35 C
ESL57549	White bkd blue spirit	Range: 0 to 260 C&F, Division: 1.0 C&F, Accuracy: /-2.0 C @ 90 C
ESL57550	White bkd blue spirit	Range: 0 to 230 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57551	White bkd blue spirit	Range: -20 to 110 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57552	White bkd blue spirit	Range: -20 to 110 °C, Division: 0.5 C, Accuracy: /-1.0 C @ 35 C
ESL57553	White bkd blue spirit	Range: 0 to 300 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57554	White bkd blue spirit	Range: -20 to 150 C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57555	White bkd blue spirit	Range: 0 to 500 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57556	White bkd blue spirit	Range: -10 to 260 °C, Division: 1.0C, Accuracy: /-2.0 C @ 90 C
ESL57557	White bkd blue spirit	Range: -10 to 210 °C, Division: 1.0 C, Accuracy: /-2.0 C @ 90 C
ESL57558	White bkd brown spirit	Range: -10 to 33° C, Division: 2.0 C, Accuracy: /-2.0 C @ 90 C
ESL57559	White bkd brown spirit	Range: -10 to 300 °C, Division: 1.0 C, Accuracy: /-2.0 C @ 90 C 4
ESL57560	White bkd brown spirit	Range: -10 to 360 °C, Division: 2.0 C, Accuracy: /-2.0 C @ 90 C
ESL57561	White bkd blue spirit	Range: -1 to 51 °C, Division: 0.1 C, Accuracy: /-1.0 C @ 35 C
ESL57562	White bkd blue spirit	Range: -1 to 51 °C, Division: 0.2 C, Accuracy: /-1.0 C @ 35 C
ESL57563	White bkd blue spirit	Range: -1 to 101 °C, Division: 0.2C, Accuracy: /-1.0 C @ 35 C



Lab Thermometer

Product Material: Glass Tube: Kerosene filled

These spirit filled thermometers use specially selected filling materials covering temperatures down to -200c. Normal fillings are coloured red on a white back glass but alternative colours are available as shown. The -200 ° C range thermometers are filled with a colourless liquid. Thermometers normally supplied with the non roll cap with ring.

ESL57564	White bkd red spirit , Length 200MM	Range: -10 to 60 °C, Division: 1.0 C, Accuracy: /-1.5 C @ 35 C
ESL57565	White bkd red spirit , Length 250MM	Range: -10 to 150 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57566	White bkd red spirit , Length 305 MM	Range: -10 to 110 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57567	White bkd blue spirit , Length 305MM	Range: -10 to 110 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57568	White bkd red spirit , Length 305MM	Range: -10 to 150 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57569	White bkd blue spirit , Length 305MM	Range: -10 to 200 °C, Division: 1.0 C, Accuracy: /-2.0 C @ 90 C
ESL57570	White bkd red spirit , Length 305MM	Range: -10 to 110 °C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57571	White bkd red spirit , Length 305MM	Range: -10 to 110 °C, Division: 0.5 C, Accuracy: /-2.0 C @ 90 C
ESL57572	White bkd red spirit , Length 205MM	Range: -10 to 150 °C, Division: 1.0 C, Accuracy: /-2.0 C @ 35 C
ESL57573	White bkd red spirit , Length 205MM	Range: -10 to 110 °C, Division: 1.0 C, Accuracy: /-1.5 C @ 35 C



Lab Thermometer

This entry level range is now available in a choice of red, green or blue spirit filling and have Tri-top, moulded glass non-roll device to help prevent breakage. These thermometers are printed with a clear, easy-to-read scale making them particularly suitable for student use. Dia 76 mm, The initial TM Brand Thermometers are supplied as standard in protective PVC packaging in pack of 10 thermometers.



ESL57574	Red spirit, length 300 mm	Range: -10 to 50 ° C, Division: 0.5 C, Accuracy: +/-0.5 C @ 35 C
ESL57575	Red spirit, length 200 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: +/-1.5 C @ 35 C
ESL57576	Red spirit, length 150 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: +/-2.0 C @ 35 C
ESL57577	Blue spirit, length 300 mm	Range: -10 to 50 ° C, Division: 0.5 C, Accuracy: +/-0.5 C @ 35 C
ESL57578	Blue spirit, length 300 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: +/-1.5 C @ 35 C
ESL57579	Blue spirit, length 300 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: +/-1.5 C @ 35 C
ESL57580	Blue spirit, length 200 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: +/-1.5 C @ 35 C
ESL57581	Blue spirit, length 150 mm	Range: -10 to 110 ° C, Division: 1.0 C, Accuracy: +/-2.0 C @ 35 C

Lab Thermometer

Product Material: Glass Tube; The EduScience break-safe range of laboratory thermometers are encapsulated in PVC to contain any glass or filling material in the event of breakage. Immersion: 76mm



ESL57582	Filling : Blue LoTox	Range : -10 to 50 ° C, Division: 0.5 C, Length: 305mm, Accuracy: +/-0.5 C @ 35 C
ESL57583	Filling : Blue LoTox	Range : -10 to 50 ° C, Division: 0.5, Length: 305mm, Accuracy: +/-0.5 C @ 35 C
ESL57584	Filling : Blue LoTox	Range : -10 to 110 ° C, Division: 0.5, Length: 155mm, Accuracy: +/-1.0 C @ 35 C
ESL57585	Filling : Blue LoTox	Range : -20 to 110 ° C, Division: 1.0 C, Length: 305mm, Accuracy: +/-1.0 C @ 35 C
ESL57586	Yellow Back with Red Spirit Filling	Range : -20 to 110 ° C, Division: 1.0 C, Length: 305mm, Accuracy: +/-1.0 C @ 35 C

Lab Thermometer Investigation Science Kit

Blue plastic case enclosing a variety of instruments and a set of investigative science notes.

- 4 x 150mm initial brand green filled thermometers
 - 4 x 200mm initial brand green filled thermometers
 - 2 x small classroom thermometers
 - 1 x dial type maximum/minimum thermometer
 - 1 x soil temperature thermometer
 - 1 x "Spot-check" clinical thermometer
- Boxed Dimensions : 334 x 232 x 50mm



ESL57588

Lab Thermometer Kit For Classroom

Blue plastic tray which fits into standard classroom storage systems. Includes a variety of laboratory thermometers and a set of classroom notes.

- 8 x 150mm initial brand green filled thermometers
 - 7 x 300mm initial brand green filled thermometers
 - 1 x 300mm uncalibrated green filled thermometer
- Boxed Dimensions : 334 x 232 x 50mm



ESL57587

Hygrometer Masons

Simple form of psychrometer
Easy to measure the amount of water vapour
Measures difference between wet & dry temperature -
Supplied complete with chart and instructions to determine %RH
Case: Polypropylene
Scale: Polystyrene
Reservoir: Polyethylene
Glass Tube: Kerosene filled



ESE53838

Thermometer Dial

For measuring temperature range -10 to 50 ° C in plastic case.



ESL57593

Lab Thermometer Classroom Wall Kit With Chart

Colourful 380mm plastic wall thermometer and chart for recording temperatures.
Boxed Dimensions : 365 x 287 x 10mm



ESL57589

Whirling Hygrometer with folding handle

Uses the 'wet' and 'dry' principle to measure Relative Humidity (%RH)
Hygrometer designed to be rotated by hand
Environmentally friendly, blue spirit filled thermometer
Tubes Comes with protective pouch, calculator chart and 2pcs replacement wicks
Temperature range: -5 to +50°C Accuracy: +/-1°C Divisions: 0.5°C



ESE53840

Hygrometer Hair Type

For measuring of relative humidity in air 0-100 x 1% r.h. in plastic case.



ESL57590

Hygrometer Thermo Hygrometer

For measuring of relative humidity and temperature both in room and air. Range -10 to 50 ° C for thermometer and 0 to 100% for Hygrometer in plastic case.



ESL57591



Wall Thermometer

Sustainable wood wall thermometers sourced from forests managed to strict environmental, social and economic standards

Temperature range: -20 to +50°C / -10 to +120°F

Divisions: 1°C / 2°F - Accuracy: +/- 1.0°C @ 10°C

Product material: Wooden mounting with kerosene filled glass tube

Dimensions : 150 x 35 x 8mm - Weight: 29.5g

ESE53863



Soil Thermometer

This type of soil thermometer is frequently used in the agriculture and horticulture industries to check temperature of soil and compost. The soil thermometer has a green knob at the top to assist with the location of the thermometer after placement.

210mm thermometer to check temperature of soil and compost

Green knob at top of aluminum case to assist with location

For use in agriculture and horticulture industries

ESE53870



Wall Room Thermometer Plastic

Plastic wall thermometer with clear, black printed scale on white moulding. Suitable for indoor and outdoor use, this thermometer is ideal for use in the home or garden.

Ideal for customer's own branding - click enquire now to submit a request

Suitable for indoor and outdoor use

Range: -20 to +50°C&F

ESE53860



Ecology and weather kit - Standard Kit

Selection of weather watcher equipment

- Complete with weather register to record measurements
- Supplied in robust carry case with full operating instructions

- Contents:**
- Mason's hygrometer
 - Gilt dial barometer
 - Digital max min thermometer
 - 150mm wood wall thermometer
 - Rainfall sprinkler measure
 - Weather register

Weight: 954g (including 505g case)

Dimensions: 320mm x 280mm x 119mm



Rain Gauge Plastic

100mm diameter rain gauge - Measuring in inches & mm Rainfall capacity up to 400ml - Supplied with rainfall charts - Replacements available

Range: 0 to 50mm / 0 to 2in

Divisions: 0.5mm / 0.05in

Product Material: Crystal Styrene

Thermometer Digital Basic with probe -50 to +150°C/°F

Stainless steel probe thermometer - Protective case and pocket clip - Battery and full instructions included Temperature range: -50 to +150°C / °F

Ambient temperature: -10 to +50°C / °F Accuracy: -50 to -21°C: +/-4°C -20 to -1°C: +/-2°C 0 to 100°C: +/-1°C 101 to 150°C: +/-2°C Resolution: 0.1°C Sampling rate: 1 second ; Battery: LR44 x 1 pc Average battery life: Approx 1500 hours CE/ROHS/WEEE: Compliant

Hazard information (SDS): See brannan.co.uk for information LCD dimensions: 18mm x 8mm Probe dimensions: 125mm x ø3.75mm Product dimensions: Net: 195mm x 21mm x 21mm Gross: 230mm x 25mm x 25mm Product weight: Net: 21g (including battery) Display box: 10.5g Gross: 31.5g

ESL57620B



NEW

NEW



ESE53833

Thermometer Digital

K Type Thermometer DM6801A+ Features New type holster, anti-drop design Large LCD for easy reading Strong anti-magnetic and anti-interference performance Data hold function High resolution 0.1°C / °F High accuracy 0.2% Specifications Basic function Range Accuracy Temperature -50°C ~ 199.9°C (0.2%+1) -50°C ~ 1000°C (0.3%+2) 1000°C ~ 1300°C (0.5%+2) -50°F ~ 199.9°F (0.3%+2) -50°F ~ 1999°F (0.5%+2) -50°C ~ 199.9°C (0.2%+1) Special Function Low battery indication Approx. 7.5V Data hold Unit symbol display Function protection Anti-shock protection Input impedance 10MΩ Sampling rate 3 times/s Max. display 1999 LCD size 67x41mm Battery 9V 6F22 Power dissipation Quiescent current approx. 3.5mA General Information Meter color Body: dark grey Holster: Orange Meter weight 250g (including battery) Meter size 130x95x28mm Standard accessory Battery x1, manual x1, K type thermocouple x1

ESL57592

Thermometer Digital Water resistant with Probe -40 to +200°C/°F

Stainless steel probe thermometer - Protective case and pocket clip - Water resistant to IP65 - Battery and full instructions included Product specifications:

Temperature range: -40 to +200°C / °F Accuracy: -40 to -1°C: +/-2°C, 0 to 100°C: +/-1°C, 101 to 150°C: +/-2°C, 151 to 200°C: +/-3°C Resolution: 0.1°C ingress protection: IP65 Battery: LR754 x 1 pc Average battery life: Approx. 1500 hours CE/ROHS/WEEE: Compliant Hazard information (SDS): See brannan.co.uk for information LCD dimensions: 18mm x 8mm Probe dimensions: 120mm x ø3.5mm Product dimensions: Net: 200mm x 20mm x 15mm Gross: 205mm x 26mm x 25mm Product weight: Net: 20.5g Display box: 10.5g Gross: 31g Temperature range -50°C ~ 300°C / -58°F ~ 572°F Accuracy -50°C ~ 300°C: ±1°C / ±2°F; Other range: 2°C / ±2°F Resolution 0.1° Measuring speed 0.8s Power source 1.5V AAA battery"

(including battery) Display box: 10.5g Gross: 31.5g

ESL57620WR

Thermometer - Digital Hand Held with Probe

Temperature range -50°C ~ 300°C / -58°F ~ 572°F Accuracy -50°C ~ 300°C: ±1°C / ±2°F; Other range: 2°C / ±2°F Resolution 0.1° Measuring speed 0.8s Power source 1.5V AAA battery

ESL57620



NEW



Max Min Thermometer Digital Mini Lidded

Digital Max Min thermometer in white case with roof. Suitable for outdoor or indoor use. This Max Min thermometer features a triple display which simultaneously shows minimum, maximum



and the current temperature. Easy push button to reset the Max and Min temperatures and also comes complete with batteries included.

Product Specifications :
 Temperature Range : -10 to 50 ° C&F
 Display Resolution : 0.1C
 Accuracy : /-2 ° C
 Sampling Rate : Every 10 seconds Water Resistant : To IP65
 Battery usage : 1 x AAA (Included) CE ROHS/WEEE : Approved

ESL57595

Max Min Thermometer Digital Classic Design

Large digital Max Min thermometer in a classic design with roof for indoor or outdoor use, this Max Min thermometer shows current temperatures and also maximum and minimum temperatures



reached since the previous reset. A reliable digital Max Min thermometer complete with batteries included.

Product Specifications :
 Temperature Range : -20 to 50 ° C&F
 Accuracy: /-1 ° C
 IP Rating: IP 65 Battery: 1 x AAA
 CE ,RoHS/WEE E: Compliant
 LCD Dimensions : 16 x 52mm (current temperature display)
 Product Dimensions : 203 x 100 x 30mm (when roof in horizontal position)
 Product Weight : 135g

ESL57594

Max Min Digital Heavy Duty , Green

Large Digital Max Min Thermometer Suitable for outdoor and indoor use in a green casing. Triple display shows minimum, maximum and current temperature simultaneously. This digital Max Min thermometer can be easily switched from C to F by a push button and it is also easy to reset the Max Min temperature.

Temperature Range : -10 to 40 ° C&F Display Resolution : 0.11C
 Accuracy : /-1C
 Sampling Rate : Every 10 seconds Water Resistant : To P65
 Battery usage : 1 x AA (Included) CE , ROHS/WEEE: Approved.



ESL57597

Max Min Thermometer Digital Heavy Duty , White

Large Max Min Digital Thermometer Suitable for outdoor and indoor use in shows minimum, maximum and current Temperature Range: -10 to 40 ° C&F Display Resolution : 0.11 ° C Accuracy : /-1 ° C Sampling Rate : Every 10 seconds Water Resistant : To IP65 Battery usage : 1 x AA (Included) CE ,ROHS/WEEE : Approved.



ESL57596

Max Min Thermometer Digital Waterproof Boxed Grey

Outdoor Digital Max Min Thermometer Outdoor digital Max Min thermometer in a grey and white case with a large splash-proof display for outdoor and indoor use.

Product Specifications :
 Temperature Range : -40 to 70 ° C&F Divisions : 0.1 ° C
 Accuracy : /-1. ° C
 Battery : 1.5 volt (AAA) or equivalent (Included) CE,ROHS/WEEE : Approved



ESL57599

Max Min Thermo&Hygrometer Electronic Jumbo

Jumbo Digital Max Min Thermometer & Hygrometer Jumbo digital Max Min thermometer featuring large displays for indoor temperature and humidity or outdoor temperature. Complete with 2 metre cable for the outdoor probe.

Product Specifications :

Temperature Range: Indoor: -10 to 50 °C&F / Outdoor: -50 to 70 ° C&F
 Humidity Range: 20 to 99% RH (when humidity 20%, display 10%RH directly)
 Divisions: 0.1 ° C
 Accuracy: /-1 ° C
 Battery : 1.5 volt (AAA) or equivalent x 1 piece (Included) CE ,ROHS/WEEE: Approved



ESL57598

Max Min Thermometer Dial (Bimetallic)

Bimetallic Max Min Thermometer

This Bimetallic Max Min Thermometer traditional design is activated by a bi-metal temperature sensing element. The Max Min Thermometer is reset by turning the button in the centre of the dial. A simple instrument to record the highest and lowest temperatures day and night. C and F.

Product Specifications :

Thermometer Range : -20 to 50 ° C&F
 Humidity Range : 0 to 100%RH
 Thermometer Accuracy : /- 1 ° C between 0 and 30C, otherwise /- 2 ° C
 Humidity Accuracy : /- 5%RH between 40 and 80%RH, otherwise /- 9%RH



ESL57600





Max-Min Thermometer Electronic

Digital Max Min Indoor Outdoor Thermometer
 Digital Max Min indoor outdoor thermometer with white moulded case and two displays for outdoor and indoor temperature, each display has a maximum and minimum recording facility and can be displayed in °C or °F. This Max/Min thermometer comes complete with stand and 2.5m cable for the outdoor stainless steel probe and batteries are included. Temperature Range : Indoor: 0 to 50 ° C&F / Outdoor: -50 to 70° C&F Divisions : 0.1 ° C Accuracy : /-2 ° C between -20 and 0°C /-1 ° C between 0 and 50 ° C /-2 ° C between 50 ° and 70 ° C otherwise /-3 ° C Sampling Rate : 10 second Battery : 1.5 volt (AAA) or equivalent x 2 pieces (Included) CE,ROHS/WEEE : Approved

ESL57601



Max Min Thermometer Lidded Green Push Button

Euro Lid Max Min Thermometer
 The Euro lidded Max Min thermometer has a modern design with a green scale on a white back in a moulded green plastic case and features a push button reset. A popular greenhouse Max Min thermometer which is used around the world. **Product**

Specifications :
 Nominal Range : -35 to 50° C&F Accuracy : /- 2.0° C Tolerance between limbs : /- 1.5° C

ESL57602



Max Min Thermometer White Quick- Set

Quick Set Max Min thermometer
 The Quick Set Max Min thermometers are a popular design in a white casing and blue printed temperature with a push button reset C and F.

Product Specifications :
 Nominal Range : -35 to 50 ° C&F Accuracy : /- 2.0 ° C Tolerance between limbs : /- 1.5 ° C

ESL57603



Max Min Thermometer White Mag- net Re-Set

The Magnet Reset Max Min Thermometer has a modern design with blue coloured scale in moulded white plastic complete with resetting magnet. These Max Min thermometers use a patented blue coloured liquid to replace the mercury but retain the ease of operation of the mercury instruments. °C & °F.

Product Specifications :
 Nominal Range : -35 to 50 ° C&F Accuracy : /- 2.0 ° C Tolerance between limbs : /- 1.5 ° C

ESL57604



Max Min Thermometer Heavy Duty , Green

Heavy Duty Max Min Thermometer
 A classic Max Min thermometer design that has long been popular. This heavy duty Max Min thermometer has a clear and easy to read black temperature scale and is simple to reset with a push button. C and F.

Product Specifications :
 Nominal Range : -40 to 50 ° C&F Accuracy : /- 2.0 ° C Tolerance between limbs : /- 1.5 ° C

ESL57605



Max Min Thermometer cream Quick-set

Quick Set Max Min thermometer
 The Quick Set Max Min thermometers have a popular design and come in a cream moulding with black printed temperature scale. Our low cost Max Min thermometer model ideal for the greenhouse which has a push button resetting device. C and F.

Product Specifications :
 Nominal Range : -35 to 50 ° C&F Accuracy : /- 2.0 ° C Tolerance between limb s : /- 1.5 ° C

ESL57606





Thermometer Infrared Hand Held

Product Features

Built-in laser pointer Over range indication
Large backlit LCD Data hold and power off function

Product Specifications

Optical Resolution (D:S): 13:1
Emissivity: Fixed at 0.95
Response Time: <500ms
Response Wavelength: 8 to 14mm
Basic Accuracy: /-2%, /-2°C / 4°F
Resolution: 0.1°C/°F
Operating Conditions: 0 to 50°C <95%RH (non-condensing)
Storage Conditions: -20 to 70°C <80%RH
Diode Laser: Output <1mW, Wavelength 630 to 670, class II
Battery: 1 x 9V (included)

CE & RoHS/WEEE: Compliant
Product Dimensions : Packaged: 228 x 133 x 60mm
Unpackaged: 155.5 x 98.8 x 27.5mm

LCD Dimensions : 26.5 x 25.6mm

-50 to 550°C (-58 to 1022°F) - 38/702/0 **ESL57612**

-50 to 350°C (-58 to 662°F) - 38/701/0 **ESL57613**

Thermometer Infrared Compact Hand Held

Product Features

Built-in laser pointer Over range indication Large backlit LCD Data hold and power off function

Product Specifications :

Optical Resolution (D:S): 12:1
Emissivity: Fixed at 0.95
Response Time: <500ms
Response Wavelength: 8 to 14mm
Basic Accuracy: /-2%, /-2 C / 4 F
Resolution: 0.1 C/°F
Operating Conditions: 0 to 50 C <95%RH (non-condensing) Storage Conditions: -20 to 70 C <80%RH
Diode Laser: Output <1mW, Wavelength 630 to 670, class II Battery: 1 x 9V (included)

CE RoHS / WEEE: Compliant

LCD Dimensions : 24.5 x 25mm

Product Dimensions : Packaged: 228 x 133 x 60mm Unpackaged: 134 x 89 x 36mm

-50 to 800°C (-58 to 1472°F) **ESL57608**

-50 to 500°C (-58 to 932°F) **ESL57609**



Thermometer Infrared Dual Laser

Product Features

Precise IR and K-Type input temperature measurement
Built-in dual laser pointers REC datalogger function for 12 points Adjustable emissivity: 0.1 to 1.0 °/°F selectable
MAX/MIN/DIF/AVG record Large backlit LCD
Trigger lock Adjustable High/Low alarm
Automatic range selection, data hold and power off function Supplied in protective bag

Product Specifications

Optical Resolution (D:S): 13:1 Response Time: <250ms
Response Wavelength: 8 to 14mm
IR Basic Accuracy: -50 to 0°/°F: /-4°/7°F 0 to 500°/°F: /-1.5%/ -2°/3.6°F
Above 500°/°F: /-2%/ -2°/3.6°F
K-Type Basic Accuracy: -50 to 1370°/°F: /-1.5%/ -1°/1.8°F Emissivity: Adjustable 0.1 to 1.0
Resolution: 0.1°/°F

Operating Conditions: 0 to 50° <95%RH (non-condensing) Storage Conditions: -20 to 70° <80%RH

Memory: Storage of 12 readings

Response Time: 1 second

Battery: 1 x 9V (included)

CE & RoHS/WEEE: Compliant

LCD Dimensions : 35 x 35mm

Product Dimensions : Packaged: 250 x 125 x 65mm Unpackaged: 192 x 97 x 59mm

-50 to 1370°C (-58 to 2498°F) **ESL57610**

-50 to 1050° (-58 to 1922°F) **ESL57611**





Thermometer Infrared Body Temperature

Body Temperature Thermometer
 Non-contact and hygienic infrared body temperature thermometer specially designed to take the body temperature of a person regardless of room temperature. The body temperature thermometer has a fast response time allowing a greater number of measurements to be taken in a short time. Designed to eliminate the chance of cross-contamination, it is ideally suited for use in schools, business and other environments where a large number of people are coming into contact with one another.

Features

- Easy and safe Selectable C or F Set alarm value
- Selectable body or surface temperature
- Memorization of the last 32 measurements
- Supplied with battery, full instructions and protective bag Laser targeting
- Trigger lock Automatic data hold Backlit LCD display

Products Specifications

Measuring Range: In Body Mode: 32 to 42.5C (90 to 108°F) - In Surface Temp Mode: 0 to 60 C (32 to 140 F)
 Operating Temp: 10 to 40°C (50 to 104°F) Storage Temp: 0 to 50°C (32 to 122°F) Accuracy: +/-0.3°C (or 0.54°F)
 Response Time: 0.5 second
 Relative Humidity: <85%
 Emissivity: 0.95 fixed value Measuring Distance: 5 - 15cm Resolution: 0.1°C (0.1°F) Battery: 2 x AA (Supplied)

ESLS7614



Thermometer Infrared Forehead

Infrared Forehead Thermometer Ease of Use
 Taking measurements of forehead temperature is quick, simple and non intrusive with this infrared forehead thermometer. Can measure both forehead temperature and the surface temperature of object. Measurements can be taken while the patient is asleep. Stores up to 20 readings in the internal memory which helps track changes in the temperature of the patient. Device will warn user if the temperature of the patient is too high or too low by way of a fever alarm.
 Safe and Hygienic
 Non contact measurements avoid the accumulation of bacteria, and reduce the need for cleaning and sterilisation of the forehead thermometer during normal use. No danger from broken glass or swallowing the thermometer filling liquid (mercury or spirit). Robust ergonomic design manufactured from tough engineering plastics. More comfortable and convenient than anal and oral reading thermometers, especially for children.

Energy Efficient
 The forehead thermometer will automatically switch off after 10 seconds of inactivity.

Details

Forehead Thermometer Temp. Mode: 32 to 42.2°C (89.6 to 108°F) Milk Temp. Mode: 0 to 100°C (32 to 212°F)

Products Specifications

Temperature Measurement Range:
 Forehead Temp. Mode: 32 to 42.2°C (89.6 to 108°F) Milk Temp. Mode: 0 to 100°C (32 to 212°F) Accuracy: +/-0.2°C (/-0.4°F)
 Response Time: 1 second
 Battery: 2 x AAA (battery life approx 1000 operations) CE, ROHS/WEEE: Approved

Product Weight : 119g

Product Dimensions : 143mm x 60mm x 50mm

ESLS7615





Thermometer Infrared Ear Thermometer

Infrared Digital Ear Thermometer
 A quick and easy infrared ear thermometer suitable for all ages. The infrared ear thermometer with digital display and memory comes complete with protective bag and 20 X replacement probe covers. Especially suited with use with babies, young children and the elderly. Pack of 20 replacement probe covers also available.

Product Specifications :

Measuring Temperature Range : 35.5 to 42°C °F
 Displayed Temperature Range : 34 to 44°C °F
 Operating Temperature Range : 16 to 35°C (60.8 to 95.0 ° F)
 Operating Relative Humidity : 80%RH
 Divisions : 0.1°C °F
 Accuracy: /-0.2°C Between 35 and 42°C (/-0.4°F between 95.9 and 107.6°F)
 Battery : 2 x AAA (Supplied)
 LCD **Dimensions** : 10mm x 20mm
Product Dimensions : 140mm x 70mm x 40mm

ESL57616



Clinical Thermometer Digital Flexi-Head

Easy to use digital flexi-head thermometer suitable for all ages especially babies, young children and the elderly. This model is the waterproof flexible probe model, suitable for oral use. Packaged in a clear plastic case with full instructions

Product Specifications :

Temperature Range: 32 to 42°C
 Divisions: 0.1°C
 Accuracy: /-0.1°C Between 35.5°C and 42°C, otherwise /-0.2°C
 Response Time:* Rectal: Approx 9 - 11 seconds
 Axillary: Approx 23 - 29 seconds
 Oral: 15 - 19 seconds
 Battery: LR41 or equivalent x 1 piece (Included)

ESL57621



Thermometer Digital Probe With Timer

Digital hand-held test thermometer with alarm function, twin displays, 1m cable and 235mm stainless steel probe. Featuring data hold and Max Min function. Includes battery, and hanger, stand and magnetic fixtures. **Product Features:**
 Dual display for temperature and timer, Programmable high/low alarm, Wide measurement range, Maximum/Minimum temperature memory, Celsius and Fahrenheit interchangeable, Data hold function, 99 hour countdown timer, Timer setting memory
 Timer elapse time display, Stainless steel probe, Wall mount keyhole, Magnetic attachment, Flip out desk stand

ESL57617

Thermometer Digital Probe With Timer

Digital hand-held test thermometer with alarm function, twin displays, 1m cable and 235mm stainless steel probe. Featuring data hold and Max Min function. Includes battery, and hanger, stand and magnetic fixtures. **Product Features:**
 Dual display for temperature and timer, Programmable high/low alarm, Wide measurement range, Maximum/Minimum temperature memory, Celsius and Fahrenheit interchangeable, Data hold function, 99 hour countdown timer, Timer setting memory
 Timer elapse time display, Stainless steel probe, Wall mount keyhole, Magnetic attachment, Flip out desk stand

ESL57617



Thermometer Digital Oral

Easy to use digital oral thermometer suitable for all ages especially babies, young children and the elderly. This oral thermometer is the standard rigid probe model, suitable for oral use. Packaged in a clear plastic case with full instructions and battery included.

Product Specifications :

Temperature Range: 32 to 42°C
 Ambient Temperature during use: 5 to 35°C (80% RH)
 Storage Temperature : -25 to 55°C (95% RH)
 Divisions : 0.1°C
 Accuracy : /-0.1°C between 35.5 and 42°C, otherwise /-0.2°C
 Battery : LR41 or equivalent x 1 piece (Included)

ESL57619





Balance Triple Beam

Single top pan, low form, suspension. Three graduated beams with notches for positioning sliding masses. Spring loaded zero adjust and magnetic damping gives stability and accuracy. Weighing capacity 610g with accuracy of 0.1g, expandable to 2610g with the use of supplementary masses.

Stainless Steel Pan, 150mm Diameter

Supplementary Masses: 2 x 1000g

1 x 500g.

Three notched Weighing Beams: 10g x 0.1g, 100g x 10g, 500g x 100g

ESL57630



Balance Four Beam Balance 310g

The maximum capacity is 311 grams and the readability is 0.01g. It is made of a high quality aluminum alloy, the knife is made of a high quality alloy and the bearing plane is of agate, with a stainless steel weighting pan and includes a built in platform to aid density determination by weighting samples in air and in water. It is widely used for schools and educational establishments, etc. QUADRUPLE BEAM BALANCE Capacity: 311g Front beam: 1x0.01g Second beam: 10x1g Third beam: 100x10g Last beam: 200x100g

ESL57631



Balance Physics Balance 2 Pan, Hydrostatic

Hydrostatic Balance is useful for specific gravity experiments. Similar to analytical balance without any casing, but with one additional pan suspended through smaller frame. This pan has a hook underneath for suspending items in specific gravity experiments. Balance has detachable pans and is mounted on well-polished wooden base. Capacity 250g Sensitivity 5mg.

ESL57626



Bathroom Scale Mechanical

Bath room scale mechanical measuring range 0 - 180 kg

ESL57692

Bathroom Scale Digital

Bath room scale digital measuring range 0 - 180 kg

ESL57694



Balance Table Top 2 Pan, Roberval, 2 Kg

Simple model, suitable for teaching, made of steel plate and pans are of metal. 2 kg

ESL57627



Double Beam Balance

Utilizing a two-pan configuration rooted in the traditional Roberval balance concept, this equipment is frequently employed for comparative weighing purposes. It boasts a capacity of 2000 grams and features a platform measuring 15cm in size. Additionally, it comes equipped with individual weights of 100g, 200g, 500g, and 1000g

ESL57629



Balance 2 Pan, Plastic

Designed specially for small students use. Made from not-toxic high quality plastic, with no sharp corners. The total balance comprises of only 6 components, which can be easily assembled and disassembled. Both of the weighing containers are of different colours and bucket shaped for use with either of liquids or solids and are washable. Since the buckets are pivoted, the objects can be placed even on the edge without affecting the accuracy of measurement. Includes a broad tip-resistant base sliding poise for easy zeroing and check rod for support of off-centre load. Capacity 2kg Readability 1g.

ESL57623



Height & Weight Scale Basic
Height and weight scale, measuring range 0-200 kg

ESL57689



Height & Weight Scale Advance
Height and weight scale, measuring range 0-200 kg

ESL57690





Spring Balance

Newton Meters, robust plastic transparent body, overall length 285mm approx. with upper and lower suspension hooks, with zero adjustment, scales are both in grams and Newtons.

- ESP60047 Measuring : 100gm/1n, 1gm
- ESP60048 Measuring : 250gm/2.5N, 5gm
- ESP60049 Measuring : 500gm/5n, 10gm
- ESP6005 Measuring : 1kg/10n, 20gm
- ESP60051 Measuring : 2kg/20n, 40gm
- ESP60052 Measuring : 3kg/30n, 60gm
- ESP60053 Measuring : 5kg/50n, 100gm



Spring Balance

PRECISION DYNAMOMETER, The Precision Dynamometer is available in range of weight capacities and scales. They are incredible precise and are suitable for measuring weights, masses and forces. Each different weight capacity is colour coded for ease of identification. As well as offering a high level of precision, these dynamometer are also easy to read enabling accurate readings to be taken quickly and precisely.

- ESP60060 Measuring : 100gm/1n, 2gm
- ESP60061 Measuring : 250gm/2.5N, 5gm
- ESP60062 Measuring : 500gm/5n,10gm
- ESP60063 Measuring : 1kg/10n, 20gm
- ESP60064 Measuring : 2kg/20n, 40gm
- ESP60065 Measuring : 3kg/30n, 60gm
- ESP60066 Measuring : 5kg/50n, 100gm



Spring Balance

force meter, Balance designed to work for mass and force activity. Dual calibrated in grams and Newtons.

- ESP60054 Measuring : 250gm/2.5N, 5gm
- ESP60055 Measuring : 500gm/5n, 10gm
- ESP60056 Measuring : 1kg/10n, 20gm
- ESP60057 Measuring : 2kg/20n, 40gm
- ESP60058 Measuring : 3kg/30n, 60gm
- ESP60059 Measuring : 5kg/50n, 100gm



Weighing Boats

Plastic weighing boats/trays - pack of 50
30ml capacity
DIAMOND SHAPE



ESL57659

Spring Balance

balance spring pocket size, moulded in plastic, reading both sides.

- ESL57633 Measuring : 1.5 Kg, 25gm
- ESL57634 Measuring : 3 kg, 50gm
- ESL57635 Measuring : 6 kg, 100gm
- ESL57636 Measuring : 10 kg, 250gm



Balance Digital- 600G/0.01G

Xllogger Digital Balance - 600g/0.01g
A superb digital balance for a competitive price. The XLE1054 offers multiple unit conversions, RS232 interface, parts counting, percentage weighing and dynamic weighing. The unit has two backlit digital displays, one as seen above and a second at the rear so that the whole class may see the results displayed. The XLE1054 may also be used to supplement the Xllogger data logging system. The Xllogger interface may be connected directly to the USB port of a computer running Excel and data is automatically imported and may be processed in a multitude of ways. The balance comes complete with low voltage power adapter (It also operates on 6 x AA cells), wind shield, 500.00g calibration weight and full user instructions.





Balance Digital Basic

High precision load cell. Rugged Plastic Housing. Big size Stainless Steel Platter. High contrast easy to read LCD display. Built-in rechargeable battery. Height adjustable feet. Full capacity subtraction. Stabilization time 1.5 seconds. Overload Protection. Below Balance Weighing Facility. Checking Weighing, piece counting function. Can be contain bubble level. Pan size: 143 X 192mm

ESL57664	Capacity : 500 G , Readability : 0.1 G
ESL57665	Capacity : 1000 G , Readability : 0.1 G
ESL57666	Capacity : 2000 G , Readability : 0.1 G
ESL57668	Capacity : 5000 G , Readability : 0.1 G



Balance Digital Basic

High precision load cell. Rugged Plastic Housing. Big size Stainless Steel Platter. High contrast easy to read LCD display. Built-in rechargeable battery. Height adjustable feet. Full capacity subtraction. Stabilization time 1.5 seconds. Overload Protection. Below Balance Weighing Facility. Checking Weighing, piece counting function. Can be contain bubble level. Pan size: 128 X 157mm

ESL57669	Capacity : 300 G , Readability : 0.01 G
ESL57670	Capacity : 600 G , Readability : 0.01 G
ESL57671	Capacity : 1000 G , Readability : 0.01 G
ESL57672	Capacity : 2000 G , Readability : 0.01 G



Balance Digital Precision

High precision load-cell, compact design. Full plastic housing. Stainless steel Platter. Super bright LCD display with back-light. Mains adapter supplied as standard. Height adjustable feet. Full Capacity subtraction. Simple 5 key panel for easy operation. Stabilization time 1.5 seconds. Overload Protection. Below Balance Weighing Facility. Selectable measure units, g,oz,ct. Checking Weighing, Piece counting function. CE approvals

ESL57674	Capacity : 300 G , Readability : 0.1 G
ESL57675	Capacity : 600 G , Readability : 0.1 G
ESL57676	Capacity : 1000 G , Readability : 0.1 G
ESL57677	Capacity : 2000 G , Readability : 0.1 G
ESL57678	Capacity : 200 G , Readability : 0.01 G
ESL57679	Capacity : 600 G , Readability : 0.01 G
ESL57680	Capacity : 1000 G , Readability : 0.01 G
ESL57681	Capacity : 2000 G , Readability : 0.01 G



Balance Digital Analytical

Electromagnetic Force Compensation Technology. Aluminium Alloy die cast base and ss platter. Super Bright LCD display with back-light. RS232C Interface Clear Glass Windshield as standard. Over load protection, Bubble Level Adjustment, Under hook Full capacity Subtraction Multi Weighing unit conversation g/mg/ct/oz. Check Weighing, Parts counting, percentage weighing

Universal power adaptor supplied as standard Certificated calibration weight supplied as standard. Internal calibration system CE approval

ESL57683	Capacity : 300 G , Readability : 1 Mg
ESL57684	Capacity : 600 G , Readability : 1 Mg
ESL57685	Capacity : 1000 G , Readability : 1 Mg
ESL57686	Capacity : 220 G , Readability : 0.1 Mg
ESL57687	Capacity : 310 G , Readability : 0.1 Mg



NEW



Demo Balance Support

The sturdy notched support is available for use the lab. materials you already have to complete the apparatus. You will need a meter stick, mass hangers and masses and several knife edge clamps, available separately. Support is 18.5 cm in height and weight is 280 g approx.

ESP60077

NEW



Economy Digital Balance 500 x 0.01g

Easy to use with 4 buttons. Fast operation thanks to quick self-calibration after switching on. Tare and reset function. Switch between grams, ounces, grains (measure of weight) and carats. Unit counter function. Automatic shutdown. Easy-to-read display with backlight, digit size: 10 mm. Works with batteries (2 x AAA) Contains two transparent measuring cups (can also be used as a protective cover). Specifications: Measuring plate: 100 x 100 mm

ESP60083



Balance Weight Physical

Made of Polished Brass, supplied with Wooden block, as illustrated.

ESP60079 Capacity 500gm Comprising 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm, 1 x 5gm, 2 x 2gm, 1 x 1gm.

ESP60080 Capacity 1000gm Comprising 1 x 500gm, 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm, 1 x 5gm, 2 x 2gm, 1 x 1gm.

ESP60081 Capacity 2000gm Comprising 1 x 1000gm, 1 x 500gm, 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm, 1 x 5gm, 2 x 2gm, 1 x 1gm.



Weight Set Hooked Weight

Brass with hooks on both sides. Recessed bottoms to enable the weights to be hooked together. The bottom is flat when placed on a flat surface. Set of 9 weights. 10 - 1000g in wooden block.

ESP60082



Weight Set Primary Weight

These weights are polished and lacquered Brass weight sets fitted in a durable hardwood storage box as illustrated. 1 each of 1gm, 5gm, 20gm, 100gm and two each of 2gm and 10gm

ESP60083

Slotted Masses And Hanger

Slotted Masses and Hanger, EduScience Nickel plated Brass, mass in disc shape
Material: EduScience Plated Brass **Consists of:** 1 x Masses hanger - 9 x Slotted Load

- ESP60085** Total Weight 100 GR 9 x 10 g + hanger
- ESP60086** Total Weight 200 GR 9 x 20 g + hanger
- ESP60087** Total Weight 500 GR 9 x 50 g + hanger
- ESP60088** Total Weight 1000 GR 9 x 100 g + hanger
- ESP60085B** Total Weight 100 GR 9 x 10 g + hanger
- ESP60086B** Total Weight 200 GR 9 x 20 g + hanger
- ESP60087B** Total Weight 500 GR 9 x 50 g + hanger
- ESP60088B** Total Weight 1000 GR 9 x 100 g + hanger



Slotted Masses And Hanger 12 pc 200 GR BRASS

Slotted Masses and Hanger, EduScience Brass, mass in disc shape
Material: EduScience Brass

Consists of:
5g to 20g Mixed Masses and Hanger
Set of 12 brass nicked plated slotted masses with hanger 50g hanger, nine masses of 20g, one of 10g and two of 5g.



ESP60086B12

Slotted Weight Set Of Masses And Hanger,

Set of 9 slotted masses, one hanger This improved set comprises masses of Brass with slots, brass hangers with hook. The design of the slots ensures that the masses may be easily removed and replaced but will not fall off accidentally.



- ESP60089** Total 100gm Each of 10gm
- ESP60090** Total 250gm Each of 25gm
- ESP60091** Total 1000gm Each of 100gm
- ESP60092** Total 250gm Each of 50gm
- ESP60093** Total 100gm Set of one hanger 20gm, three slotted masses 20g one mass 10gm and two masses 5gm, Total 100gm
- ESP60094** Total 250gm. "Set of one hanger 50gm, nine slotted masses 20gm, one mass of 10gm and two masses of 5gm Total 250gm.





Weight Hooked Masses

Hooked masses cylindrical, Chromium plated with cylindrical weight with long hook. Loose or in wooden box.

- ESP60095 10gm each weight
- ESP60096 20gm each weight
- ESP60097 50gm each weight
- ESP60098 100gm each weight
- ESP60099 500gm each weight
- ESP60100 1000gm each weight
- ESP60101 200gm each weight



Melting Point Tube (Pk/100)

Melting Point Tube

ESL57729

Melting Point Apparatus Digital

Melting point apparatus, 1°C resolution, with pack of 100 melting point tubes, closed at one end, 240V, Digital Selection and Display of Temperature

High Accuracy

Easy to Operate with Plateau

Facility Number of Samples : 2

Temperature Range : Ambient to 300°C (572°F)

Temperature Accuracy : ±1.0°C @ 20°C (68°F), ±2.5°C @

300°C (572°F) Display : 3-digit LED (no display hold) | Display

Resolution : 1°C

Ramp Rates : 20°C (68°F) per minute to plateau, 2°C (3.6°F) per minute to melt

Dimensions : 160 W x 220 D x 170 mm H (6.4 x 8.7 x 6.8")

Weight : 1.8 kg (4 lb) | Electrical Supply : 120/240V, 50/60 Hz, 75 W

ESL57725



Melting Point Apparatus Analogue

Melting point apparatus, with thermometer and pack of 100 melting point tubes, open both ends, 240V, NIST Certificate, UK & European Power Cords, Number of Samples: Up to 3

Temperature Range : 50 to 250°C (122 to 482°F) Heating Rate : 1 to 10°C (34 to 50°F) per minute

Dimensions : 370 W x 140 D x 110 mm H (15 x 5.5 x 4.3")

Weight : 1.7 kg (3.7 lb)

Electrical Supply : 120/240V, 50/60 Hz, 50 W IP Rating : 40

Easy to Operate—Ideal for Educational Use Supplied with Safe Spirit Filled thermometer

ESL57726



Weight Masses Hexagonal With Lifting Ring

Hexagonal with lifting ring. Within international tolerance. Set of 6 (50gm, 100gm, 200gm, 500gm, 1kg 2kg)

ESP60103



Weights Hooked Flat

Weights, Brass, with hooks on both sides. Set of 9 Pcs, Capacity 500 gm

, comprises of 1 x 200gm, 2 x 100gm, 1 x 50gm, 1 x 20gm, 2 x 10gm and 2 x 5gm

ESP60106





Timer , Dual Timer And Clock

The dual timer features two 24 hour countdown timers and also a 12/24 hour clock display. Counts in 1 second increments up to 24 hours. Complete with magnetic clip and stand. Batteries included.

Product Specifications :

- Timer Count: 1 second countdown/up to 24 hours
- 12/24 hour clock
- Time Accuracy Standard: / - 60 sec/month
- Key Durability: Rubber key - 500,000 times (@200g / - 20g)
- Contact switch - 200 times (vertical press)
- Battery : 1 x LR44 (Supplied)
- Battery Life : Approx 150 days
- CE , ROHS/WEEE: Approved
- Operating Temperature : 0 to 40°C (95% RH)
- Operating Voltage : 1.2V to 1.7V x 2
- Current Consumption :10?A (Stand-by current)
- 25mA (average alarm current)
- Electrostatic discharge ESD : / -8kV
- LCD Dimensions :** 12mm x 32mm
- Product Dimensions :** 50mm x 60mm x 12mm



Timer , Four Way Timer And Clock

This device features 4 timers in one compact unit with 24 hour countdown and count up function. It also benefits from a large easy to read display and a 12/24 hour clock. Complete with stand and magnetic clip. Batteries included.

Product Specifications :

- Timer Count: 24 hour countdown and up 12/24 hour clock
- Time Accuracy Standard: / - 60 sec/month
- Battery : 2 x LR44 (Included)
- Battery Life : Approx 150 days
- Operating Temperature : 0 to 40°C (95% RH)
- Operating Voltage : 1.2V to 1.7V x 2
- Key Durability : Rubber key - 500,000 times (@200g / - 20g)
- Contact switch - 200 times (vertical press)
- CE,ROHS/WEEE: Approved
- Current Consumption :10?A (Stand-by current)
- 25mA (average alarm current)
- Electrostatic discharge ESD : / - 8kV
- Alarm Sound : 70dB
- LCD Dimensions :** 22mm x 50mm
- Product Dimensions :** 62mm x 75mm x 15mm

ESL57740



Stop Clock

Two sweep hands, one indicating seconds, the other recording minutes. Start-stop lever on the left hand side, zero reset lever on right hand side. Movement housed in metal case. Diameter of dial 100mm divided 0-60 x 1. Fitted in powder coated metal case.

ESL57733

ESP59918



Stopwatch Budget

Budget Stopwatch

1/100 second stopwatch with split timer function, calendar and time. Comes complete with lanyard cord. Batteries included.

Features:

- 1/100 second stopwatch, Split timing function, Up to 23 hours, 59 minutes, 59 seconds, Clock shows hours, minutes, seconds, 12/24 hour selectable, Calendar shows day, month, year, Includes lanyard, **Product Specifications :**, Timer Count: 1/100 second
- Battery: 1 x LR44 (Included), CE, ROHS/WEEE: Approved, **LCD Dimensions :** 12mm x 27mm, **Product Dimensions :** 80mm x 55mm x 17mm



Timer Bench Top

Product Specifications :

- Timing Period : Up to 9 hours / 59 minutes / 59 seconds
- Time Accuracy Standard: Within / - 1 second
- Resolution: 1/100 second for 30 minutes then 1 second thereafter
- Product Material: ABS
- Battery : 1 x AA (supplied)
- Operating Temperature : 0 to 50°C
- Storage Temperature : -10 to 60°C
- CE,ROHS/WEEE : Approved
- LCD Dimensions :** 63.7 x 19.7mm
- Product Weight :** 197g
- Product Dimensions :** 100 x 97 x 70.5mm

ESL57739

ESL57735



Timer Triple Timer And Clock**Product Specifications :**

Timer Count: 20 Hour x 3
 Time Accuracy Standard : /- 60 sec/month
 Key Durability: Rubber key - 500,000 times (@200g /- 20g) Contact switch - 200 times
 Battery : 2 x LR44
 (Included) Battery Life :
 Approx 1 year CE ,
 ROHS/WEEE : Approved
 Operating Temperature : 0 to 40°C (95% RH) Operating Voltage : 1.2V to 1.7V
 Current Consumption: 15A (stand-by current) 10mA (average alarm current)
 Alarm Sound Level : 70dB Min 1ft from product Electrostatic discharge ESD : /-8kV
LCD Dimensions : 45mm x 41mm
Product Weight : 60g
Product Dimensions : 92mm x 69mm x 13mm



ESL57737

Timer , Digital Kitchen Timer And Clock

Digital timer featuring 99 minutes 59 Seconds countdown count up timer with memory function, and 12 / 24 hour clock. Comes with hanger, stand and magnetic fixing. Battery included.

Product Specifications :

Timer Count : 99 minutes / 59 seconds Battery : 1 x AAA (Supplied)
 CE , ROHS/WEEE : Approved
 Operating Temperature : 0 to 40°C (95% RH)
LCD Dimensions : 48mm x 20mm
Product Dimensions : 67mm x 77mm x 27mm



ESL57741

**Stopwatch Analogue**

Time measurement. One button have function to Start, Stop and Reset. In Stopwatch can be found freeze over round.

Size : Overall 50mm diameter Thickness : 16mm
 Scale : 0-60 x 0.2 sec., 0-30 x 1min Material : Stainless steel
 Mechanical (analogue) type timer
 One button type for start button, reset and mechanic rotator spring

Dimension : 6.50 (L) x 6.50 (W) x 1.50cm (H)
Weight : 0.085 kg

ESL57745

Timer Slimline**Budget Stopwatch**

1/100 second stopwatch with split timer function, calender and time. Comes complete with lanyard cord. Batteries included.

Features :

1/100 second stopwatch Split timing function
 Up to 23 hours, 59 minutes, 59 seconds Clock shows hours, minutes, seconds 12/24 hour selectable
 Calendar shows day, month, year Includes lanyard

Product Specifications :

Timer Count : 1/100 second Battery : 1 x LR44 (Included) CE ,ROHS/WEEE: Approved
LCD Dimensions : 12mm x 27mm
Product Dimensions : 80mm x 55mm x 17mm



ESL57738

Timer , Countdown Digital Large**Large Digital Countdown Timer**

Large digital countdown timer covering 99 minutes 59 Seconds. The timer is supplied with stand, clip and magnetic fixing. All of our timers are supplied with batteries included.

Product Specifications :

Timer Count: 99 minute / 59 second
 Time Accuracy Standard: /- 60 sec/month (@ 25°C) Battery : 1 x AAA (Supplied)
 Battery Life : Approx 1 year
 Operating Temperature : 0 to 40°C (95% RH) Operating Voltage : 1.2 to 1.7V
 Slide Switch Reliability : 5000 cycles
 Key Durability: Rubber key - 500,000 times (@200g /- 20g) Contact switch - 200 times (vertical press)
 Current Consumption : 15 A (Stand-by current) 10mA (average alarm current)
 Electrostatic discharge ESD : /-8kV
 Alarm Sound : 70dB Min 1ft from product
LCD Dimensions : 38mm x 64mm
Product Dimensions : 70mm x 80mm x 20mm



ESL57742

Timer , Countdown Digital Mini

Mini digital timer featuring 99 minutes 59 Seconds countdown and memory function. Complete with stand, clip and magnetic fixing. All of our timers are supplied with batteries included.

Product Specifications :

Timer Count: 99 minute / 59 second
 countdown Time Accuracy Standard: /- 60 sec/month
 Key Durability: Rubber key - 100,000 times (@200g /- 20g) Contact switch - 5000 times (vertical press)
 Battery : 1 x AAA (Supplied) Battery Life :
 Approx 2 year
 Operating Temperature : 0 to 40°C (95% RH) Operating Voltage: 1.2 to 1.7V
 Current Consumption : 10mA (Stand-by current) & 12mA (average alarm current)
 Electrostatic discharge ESD : /-8kV
LCD Dimensions : 38mm x 64mm
Product Dimensions : 55mm x 55mm x 25mm



ESL57743



NEW



ES Pocket Meter

- Replaceable combined probe design, meeting different applications
- Multi-color backlight display, easy to read data in different modes
- Data reading indicator and automatic data locking when the reading is stable
- Low voltage indication ensures timely battery replacement
- Buffers solutions: standards are selectable
- Auto shut-off time, customized backlight display time
- Supplied with standard solution, sample vials and lanyard for convenient field test
- Dual-control mode with mobile APP connection to achieve powerful data storage
- The mobile APP provides 4 types of measurement display for different situations, including Graph, Graph mode, Table mode, Dial mode, and General mode
- Protection class: IP67

Labware

Model		ESL57748	ESL57859	ESL57756	ESL57862	ESL57748B	ESL57859B	ESL57756B	ESL57862B	
Parameter	pH/mV.°C	✓	-	-	✓	✓	-	-	✓	
	mV(ORP).°C	✓	✓	-	✓	✓	✓	-	✓	
	Cond/TDS/Sal./Res.°C	-	-	✓	✓	-	-	✓	✓	
pH	Measurement range	(-2.00-16.00) pH	✓	-	-	✓	✓	-	-	✓
	Resolution	0.1/0.01	✓	-	-	✓	✓	-	-	✓
	Accuracy	±0.01pH±1digit	✓	-	-	✓	✓	-	-	✓
	Calibration points	1-, 2-, or 3-point	✓	-	-	✓	✓	-	-	✓
	ATC range	0~50°C (32-122°F)	✓	-	-	✓	✓	-	-	✓
ORP	Measurement range	(-1000.0-+1000.0) mV	✓	✓	-	✓	✓	-	✓	
	Resolution	0.1/1	✓	✓	-	✓	✓	-	✓	
	Accuracy	±0.1%F.S±1digit	✓	✓	-	✓	✓	-	✓	
Conductivity	Measurement range	0-2000.0mS/cm, auto-ranging : 0-19.999µS/cm; 20.0-199.9µS/cm; 200-1999µS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm; 200.0-2000mS/cm K=10 Match test range: 0-2000mS/cm TDS : 0-100.0g/L (TDS factor adjustable) Resistivity:5.000Ω-cm-100.0MΩ-cm	-	-	✓	✓	-	-	✓	✓
	Resolution	0.01/0.1/1	-	-	✓	✓	-	-	✓	✓
	Accuracy	±1.0%±1digit	-	-	✓	✓	-	-	✓	✓
Temperature	Measurement range	(0.0-50.0) °C/(32.0-122.0)°F	✓	✓	✓	✓	✓	✓	✓	
	Accuracy	±0.2°C	✓	✓	✓	✓	✓	✓	✓	
APP	Calibration reminder	-	-	-	-	✓	✓	✓	✓	
	Sample ID Classification	-	-	-	-	✓	✓	✓	✓	
	Timing datalogging	-	-	-	-	✓	✓	✓	✓	
	Operation guider	-	-	-	-	✓	✓	✓	✓	
	Various display modes	-	-	-	-	✓	✓	✓	✓	
Test Kit	Meter	✓	✓	✓	✓	✓	✓	✓	✓	
	Probe(pre-installed)	ESL57748-S	ESL57859-S	ESL57756-S	ESL57862-S	ESL57748B-S	ESL57859B-S	ESL57756B-S	ESL57862B-S	
	pH buffer solution: pH4.00/7.00/10.01, 30mL, one for each	✓	-	-	-	✓	-	-	-	
	3.0 mol KCl pH/ORP soaking solution, 10mL, 1 bottle	✓	✓	-	✓	✓	✓	-	✓	
	Sample Vials: 30mL	3	1	2	4	3	1	2	4	
	Standard ORP solution 222 mV, 30mL	-	✓	-	-	-	✓	-	-	
	Standard Cond solution 1413µS/12.88mS/cm 30mL, one for each	-	-	✓	✓	-	-	✓	✓	
	pH buffer solution: pH4.00/7.00, 30mL, one for each	-	-	-	✓	-	-	-	✓	
	4x1.5V AAA alkaline batteries (pre-installed)	✓	✓	✓	✓	✓	✓	✓	✓	
	Lanyard	✓	✓	✓	✓	✓	✓	✓	✓	
	Hard carrying case (L/W/H: 28.0x23.0x8.2cm)	✓	✓	✓	✓	✓	✓	✓	✓	
	Operation manual	✓	✓	✓	✓	✓	✓	✓	✓	





PH Meter Pen Type

The most cost effective pH tester, widely applied for general precision requirement in various water analytical situations.

The smallest and thinnest shape: 148×29×14mm. The diameter of the electrode: 10mm..

The best function: automatic calibration, automatic temperature compensation, automatic power off, low voltage alarm, pH electrode invalidation display, etc.

The easiest to use : single button operation.

The reliable structure design: meet IP57 waterproof, replaceable batteries, calibration solution, electrode soaking solution and standby batteries in a portable case.

The most cost-effective pen tester.

ESL57749



PH Meter Pocket Type

Economy pH tester, meet general requirements, cost-effective. Automatic calibration, no temperature compensation.

Low voltage alarm display.

10 minutes automatic shut-down.

Replaceable electrode configuration calibration solution. IP 57 waterproof rating.

Measuring range : 0-14.0

pH Resolution : 0.1 pH

Accuracy : ±0.1pH±1 digit

Temperature compensation :

No Automatic Calibration :

1point calibration (7.00

pH) Power :

2AAA batteries, 1.5V × 2, more than 100 hours of continuous

using Size and weight : 39×25×176 mm/95g

ESL57747

PH Meter Potable Hand-held

Portable advanced single measurement water quality meter Smart electrode interchangeable water quality measurement with single input, multi-parameters readable. Easy operation, meter powered by six AAA batteries, receptacle device is built- in for tripod mountable enable to do long time monitoring purposes.

FEATURES :

Professional look design accurate portable meters with large LCD display, BNC connector.

All electrodes with BNC connector compatible to any other electrodes. Hold function, low battery icon indicator, automatic power off in 15 minutes and may disable.

Built-in different temperature compensation selectable: PT100, PT1000 (pH electrode only), Thermistor 30K, 10K ohm.

RFS (Recover to Factory Setting) function is included.

3 points pH calibration: 4, 7, 10 (Adjustable). Calibration buffer solution are included with soaking solution.

Conductivity calibration points: 1413uS. Calibration solution is included. Conductivity electrode may convert to TDS and Salinity concentration, adjustable conductivity to TDS conversion factor from 0.4 to 1.0. Three in one conductivity electrode (Cond. EC.TDS. Salinity measurement). Conductivity cell constant (K) selectable: 0.1, 1.0, 10 (Selectable and adjustable). DO 100% self-calibration is convenient and simple. Calibrated both Saturated DO/zero DO (Na2SO3) before shipment. Compact DO electrodes supplied with 3M cable and membrane cap, electrolyte. Galvanic electrodes do not require long warm up time as polarographic type electrodes. (Polarization is required about 10-215 minutes.) Tripod receptacle mountable design for long time monitoring purposes. All sensors are well calibrated before shipment. Warranty period is two years. Long life sensors

SUPPLIED : Meter - Battery-AAA x 6 pcs Operation manual Electrodes - Black carrying case - pH buffer solution x 3 pcs (pH 4 ,pH7, pH10) 1413uS buffer solution x1 - (3M) Soaking Solution x 1

Specifications :

Data Hold: Freeze the display reading.

Meter **Dimension :** 180mm x 58mm x 32mm (With BNC connector) Power supply: AAA batteries x 6 pcs / 9V AC/DC (Option)

Temperature:0-90 (PH) 0-90 (Cond/TDS/Salt/) -Temp. accuracy: 0.5 PH:

Measurement range PH: 0 to 14 pH Accuracy 1% of full scale 1 digit Resolution:0.01(pH)

ESL57751





Conductivity Meter Pen Type

The most cost effective pen conductivity tester, ability to switch among conductivity, TDS, salinity and resistivity, widely applied in surface water, sewage, drinking water, soil less, printing, wash water of plating tank, aquarium, fish pond, swimming pool, hot spring, etc. Compared with similar products: the widest measurement scope 0-50mS/cm, more measurement parameters, ability to switch among conductivity, TDS, salinity and resistivity. multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.

The smallest and thinnest shape : 148×29×14mm. The diameter of the electrode: 10mm. The best function: automatic calibration, automatic temperature compensation, automatic switch of range, automatic power off, low voltage alarm, etc.

The easiest to use : single button operation.

Meet IP57 waterproof rating, replaceable batteries, calibration solution and standby batteries in a portable case.

ESL57757

Conductivity Meter Pocket Type

Economy conductivity tester, meet general requirements, cost-effective Long measurement range, automatic switching range.

Automatic calibration, automatic temperature compensation (without temperature display.)

Low voltage alarm display.

10 minutes automatic shut down.

Conductivity calibration solution configuration. IP57 waterproof rating.

Measuring range Divided into three sections, automatic switching range: (0-99.9) μ S/cm(100-999) μ S/cm (1.00-10.00)mS/cm

Resolution : 0.1/1 μ S/cm:0.01 mS/cm

Accuracy \pm 1%FS

Temperature compensation : (0-50) $^{\circ}$ C (Auto) Automatic

Calibration 1 point calibration(1413 μ S/cm)

Power : 2 AAA batteries, 1.5V \times 2, more than 100 hours of continuous using Size and **Weight** : 39×25×176 mm/ 87g



ESL57755



Conductivity EC /TDS/Salinity Pocket Tester Kit

Portable Pocket EC/TDS/Salinity Meter/Tester simply tests all kinds of regular conductivity measurements in an ACCURATE, QUICK, and RELIABLE manner. The applications include hydroponics, tap/drinking water, pools& spas, education, water treatment, environmental monitoring, etc. Up to 3 points of Auto Calibration with auto buffer recognition and 0 to 50 $^{\circ}$ C Auto Temperature Compensation (ATC), 0.01 mS/ \pm 1% F.S, 0.5 $^{\circ}$ C accuracy with measuring range of 0-200.0 μ S/cm, 0-2000 μ S/cm, 0-20.00 mS/cm, 0-50.0 $^{\circ}$ C.

APERA's unique BPB (Brush-Resistant Platinum Black) sensor adopts a special processing technology, which minimizes electrode polarization, expands measuring range, and increases the firmness of the electrode, hence ensuring a much higher accuracy and consistency in a wide-range conductivity measurement than traditional stainless steel electrodes, and is easy to clean. The probe is replaceable and easy to install so that you don't have to buy a whole new meter once the probe is aged.

Auto recognition and indication of stable values improves consistency, saving you the trouble of guessing when to manually hold measurement. With a large clear 180 $^{\circ}$ viewing angle screen with 2 backlit colors (blue for measuring mode and green for calibration mode), it supports dual display of temp./EC value and indications of completed calibrations (where M/H indicate 2 points of calibrations) and stable readings (with a smiley face).

Easy menu setting, customizing your tester functions according to your needs (switch of temperature unit, TDS factor setting, Switch of salinity unit, auto hold on/off). Smart self-diagnosis, warning of out-of-range/preset measurement and incorrect calibrations.

Comes with a complete kit. IP67 waterproof and dustproof, floating on water. 1000 hours' continuous operation powered by AAA batteries (with low power warning and auto power off in 8 min if no operation)

ESL57758



ES Portable Meter

Features

- 3.5" TFT Color Display, user-friendly interface
- A robust POM housing and stainless-steel protective guard ensure durability when measuring in tough environments
- No membranes, no electrolyte, no warm up, minimize hassle
- Fast response (shorter than 15s), fluorescence sensor technology provides high accuracy and repeatability
- Intelligent function with Auto. timing datalogger, parameter setting, data hold
- Built-in temperature sensor, real-time temperature compensation
- Automatic barometric pressure compensation

NEW



Model		ESL57752	ESL57860	ESL57806	ESL57807P Polarography Type	ESL57807O Optical Type
Parameter	pH/mV.°C	✓	-	-	-	-
	mV(ORP).°C	✓	✓	-	-	-
	Cond/TDS/Sal./Res.°C	-	-	✓	-	-
pH	DO	-	-	-	✓	✓
	Measurement range	(-2.000-20.000) pH	✓	-	-	-
	Resolution	0.1/0.01/0.001	✓	-	-	-
	Accuracy	±0.002pH±one digit	✓	-	-	-
	Calibration points	1, 2, -3pts automatic	✓	-	-	-
ORP	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	-	-	-
	Measurement range	(-1999.9 - +1999.9) mV	✓	✓	-	-
	Resolution	0.1/1	✓	✓	-	-
Conductivity	Accuracy	±0.03%F.S±one digit	✓	✓	-	-
	Measurement range	0-2000.0mS/cm, auto-ranging : 0-19.999µS/cm; 20.0-199.9µS/cm; 200-1999µS/cm; 2.00-19.99mS/cm;	-	-	✓	-
	Resolution	one point	-	-	✓	-
DO	Accuracy	0.001/0.01/0.1/1	-	-	✓	-
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	-	-	✓	-
	Accuracy	±0.5 % FS±one digit	-	-	✓	-
	Measurement range	(0.00-20.00) mg/L	-	-	-	✓
	Accuracy	±0.30 mg/L	-	-	-	✓
	DO saturation	±0.20 mg/L	-	-	-	✓
	Barometric pressure compensation	(0.0-200.0) kPa	-	-	-	✓
Temperature	Temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	-	-	✓
	Salinity compensation	0~45ppt	-	-	-	✓
	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓	✓
Others	Accuracy	±0.2°C	✓	✓	✓	✓
	Charging socket	Type-C	✓	✓	✓	✓
	Power supply	rechargeable lithium battery	✓	✓	✓	✓
Test kit	IP Rating	IP57	✓	✓	✓	✓
	Meter	ESL57752	✓	✓	✓	✓
	Plastic ATC pH probe D201T-H	ESL57860	✓	-	-	-
	Plastic ORP probe DORP301	ESL57806	-	✓	-	-
	Stainless-steel temperature probe DTEMP-02H	ESL57807P	-	✓	-	-
	Plastic ATC Cond probe DCON201T, K=1.0	ESL57807O	-	-	✓	-
	Polarographic DO probe DDO01-2M-H, cable length: 2m	ESL57807P	-	-	-	✓
	Optical DO probe DODO01-3M, cable length: 3m	ESL57807O	-	-	-	✓
	pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	ESL57752	✓	-	-	-
	Standard ORP solution: 222mV, 50mL,1btl	ESL57860	-	✓	-	-
	Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	ESL57806	-	-	✓	-
	Membrane refill solution DDOS-01, 30mL,1btl	ESL57807P	-	-	-	✓
	Membrane sensor caps DDOSC: 3pcs/group, 1pkg	ESL57807O	-	-	-	✓
	Rechargeable lithium battery (pre-installed)	ESL57752	✓	✓	✓	✓
	Charging cable: 1pc	ESL57752	✓	✓	✓	✓
Hard carrying case (L/W/H: 33.0×27.2×8.2cm): 1pc	ESL57752	✓	✓	✓	✓	
Operation manual	ESL57752	✓	✓	✓	✓	





ES Desktop Meter

Features

- High-res 7" display screen with white backlight, easy to read
- Automatic calibration, ATC measurement, parameter setup
- Automatic reading stable indication, calibration indication
- Data storage: 450 readings
- Data export: Flash disk/ Wireless printer (the printer is optional)
- Equipped with a flexible probe holder and pH buffer solutions for convenient use
- Protection class: IP54

Model		ESL57754	ESL57760	ESL57809	ESL57854	ESL57855	ESL57856	ESL57857
Parameter	pH/mV.°C	✓	-	-	✓	✓	-	✓
	mV(ORP).°C	✓	-	-	✓	✓	-	✓
	Cond/TDS/Sal./Res.°C	-	✓	-	✓	-	✓	✓
	DO	-	-	✓	-	✓	✓	✓
pH	Measurement range	(-2.00-20.00) pH	✓	-	-	✓	✓	✓
	Resolution	0.1/0.01	✓	-	-	✓	✓	-
	Accuracy	±0.01pH±one digit	✓	-	-	✓	✓	-
	Calibration points	1, 2, -3pts automatic	✓	-	-	✓	✓	-
	ATC range	(0.0-100.0) °C/(32.0-212.0) °F	✓	-	-	✓	✓	-
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	-	-	✓	✓	-
	Resolution	0.1/1	✓	-	-	✓	✓	-
	Accuracy	±0.1%F.±one digit	✓	-	-	✓	✓	-
Conductivity	Measurement range	0-200.0mS/cm, auto-ranging : 0-19.99µS/cm; 20.0-199.9µS/cm; 200-1999µS/cm; 2.00-19.99S/cm; 20.00-199.9mS/cm; TDS: 0 - 100.0g/L (TDS factor adjustable) Resistivity: 5.00Ω-cm-100.0MΩ-cm Salinity: 0-100ppt	-	✓	-	✓	-	✓
	Calibration points	one point	-	✓	-	✓	-	✓
	Resolution	0.01/0.1/1	-	✓	-	✓	-	✓
	ATC range	(0.0-50.0) °C/(32.0-122.0) °F	-	✓	-	✓	-	✓
	Accuracy	±1.0% FS±one digit	-	✓	-	✓	-	✓
DO	Measurement range	(0.00-20.00) mg/L	-	-	✓	-	✓	✓
	Accuracy	±0.30 mg/L	-	-	✓	-	✓	✓
	DO saturation	(0.0-200.0)%	-	-	✓	-	✓	✓
	Automatic barometri pressure compensation	(0-200.0) kPa	-	-	✓	-	✓	✓
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0) °F	-	-	✓	-	✓	✓
	Manual salinity compensation	0-45ppt	-	-	✓	-	✓	✓
	Temperature	(0.0-100.0) °C/(32.0-212.0) °F	✓	✓	✓	✓	✓	✓
Others	Data export	Flash disk/Printer	✓	✓	✓	✓	✓	✓
	Power supply	DC12V	✓	✓	✓	✓	✓	✓
Test kit	Meter	✓	✓	✓	✓	✓	✓	✓
	Plastic ATC pH probe D201T	✓	-	-	✓	✓	-	✓
	Plastic ATC Cond probe DCON201T, K=1.0	-	✓	-	✓	-	✓	✓
	Polarographic DO probe DDO01-2M, cable length: 2m	-	-	✓	-	✓	✓	✓
	pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	✓	✓	-	✓
	Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	-	✓	-	✓	-	✓	✓
	Membrane refill solution DDOS-01, 30mL, 1btt	-	-	✓	-	✓	✓	✓
	Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	✓	-	✓	✓	✓
	Power adaptor: 1pc	✓	✓	✓	✓	✓	✓	✓
	Flexible probe holder DF01: 1pc	✓	✓	✓	✓	✓	✓	✓
Operation manual	✓	✓	✓	✓	✓	✓	✓	



NEW

ES Desktop Meter

Features

- High-res 7" display screen with white backlight, easy to read
- Automatic calibration, ATC measurement, parameter setup
- Automatic reading stable indication, calibration indication
- Data storage: 450 readings
- Data export: Flash disk/ Wireless printer (the printer is optional)
- Equipped with a flexible probe holder and pH buffer solutions for convenient use
- Protection class: IP54



Model		ESL57754T	ESL57760T	ESL57809T	ESL57854T	ESL57855T	ESL57856T	ESL57857T
Parameter	pH/mV.°C	✓	-	-	✓	✓	-	✓
	mV(ORP).°C	✓	-	-	✓	✓	-	✓
	Cond/TDS/Sal./Res.°C	-	✓	-	✓	-	✓	✓
	DO	-	-	✓	-	✓	✓	✓
pH	Measurement range	(-2.000-20.000) pH	✓	-	-	✓	✓	✓
	Resolution	0.01/0.001	✓	-	-	✓	✓	✓
	Accuracy	±0.002pH±one digit	✓	-	-	✓	✓	✓
	Calibration points	1, 2, -5 pts automatic	✓	-	-	✓	✓	✓
	ATC range	(0.0-100.0) °C/(32.0-212.0) °F	✓	-	-	✓	✓	✓
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	-	-	✓	✓	✓
	Resolution	0.1/1	✓	-	-	✓	✓	✓
Accuracy	±0.03%F.5±one digit	✓	-	-	✓	✓	-	✓
	Measurement range	0-2000.0mS/cm, auto-ranging : 0-19.999µS/cm; 20.0-199.9µS/cm; 200-1999µS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm; 200.0-2000mS/cm (K=10) Match test range: 0-200mS/cm TDS: 0 - 100.0g/L (TDS factor adjustable) Resistivity: 5.000Ω-cm-100.0MΩ-cm Salinity: 0-100ppt	-	✓	-	✓	-	✓
Calibration points	one point	-	✓	-	✓	-	✓	✓
	Resolution	0.001/0.01/0.1/1	-	✓	-	✓	-	✓
ATC range	(0.0-50.0) °C/(32.0-122.0) °F	-	✓	-	✓	-	✓	✓
	Accuracy	±0.5 % FS±one digit	-	✓	-	✓	-	✓
Measurement range	(0.00-20.00) mg/L	-	-	✓	-	✓	✓	✓
	Accuracy	±0.30 mg/L	-	-	✓	-	✓	✓
DO saturation	(0.0-200.0)%	-	-	✓	-	✓	✓	✓
	Automatic barometri pressure compensation	(0-200.0) kPa	-	-	✓	-	✓	✓
Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0) °F	-	-	✓	-	✓	✓	✓
	Manual salinity compensation	0-45ppt	-	-	✓	-	✓	✓
Measurement range	(0.0-100.0) °C/(32.0-212.0) °F	✓	✓	✓	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓	✓	✓
Data export	Flash disk/PC/Printer	✓	✓	✓	✓	✓	✓	✓
	Power supply	DC12V	✓	✓	✓	✓	✓	✓
Test kit	Meter	✓	✓	✓	✓	✓	✓	✓
	Glass refillable combination pH probe D201G	✓	-	-	✓	✓	-	✓
	Stainless-steel temperature probe DTEMP-01	✓	-	-	✓	✓	-	✓
	Glass ATC conductivity probe DCON201TG, K=1.0	-	✓	-	✓	-	✓	✓
	Polarographic DO probe DDO01-2M	-	-	✓	-	✓	✓	✓
	pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-	✓	✓	-	✓
	Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	-	✓	-	✓	-	✓	✓
	Membrane refill solution DDOS-01, 30mL, 1btl	-	-	✓	-	✓	✓	✓
	Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	✓	-	✓	✓	✓
	PC cable: 1pc	✓	✓	✓	✓	✓	✓	✓
Flexible probe holder DF01: 1pc	✓	✓	✓	✓	✓	✓	✓	
Magnetic stirrer: 1pc	✓	✓	✓	✓	✓	✓	✓	
Power adaptor	✓	✓	✓	✓	✓	✓	✓	
Operation manual	✓	✓	✓	✓	✓	✓	✓	





NEW



Dissolved Oxygen Meter Portable (DO Meter)

Equipped with state-of-the-art Optical DO sensor: measures dissolved oxygen level in a RELIABLE and EFFORTLESS manner Intelligent functions: Auto. recognition of stable values Minimal maintenance required. Easy calibration IP57 waterproof and dust-proof structure, ideal to be used in harsh environments Powered by AAA batteries, Comes with a complete test kit, including the meter, optical probe, calibration cap, and a rugged carrying case Set Includes the Following :

1. Portable DO meter 1pc
2. Optical DO probe 1pc
3. Calibration cap 1pc
4. Carrying case
5. Manual

ESL57808



PH and Conductivity Meter Desk Top

pH + Conductivity Double-Parameter measurement meter which is suitable for general measurement in laboratory. It is suitable for measuring the pH value of moderate ionic strength aqueous solution, and conductivity values of conventional solution

- The most widely used pH + Conductivity Double-Parameter measurement meter.
 - Meter meets with the requirement of international GLP standards. Its features up to automatic calibration, automatic temperature compensation, data storage, timing measurement, clock display, RS-232 output, function setting and self-diagnose etc.
 - There are three different measurement modes: stable display mode; time measurement mode; continuous measurement mode.
 - Automatically recognize pH buffer solution. User can choose anyone from three series of standard buffer solutions: Europe & USA series, NIST series and China series.
 - Adopt advanced and original conductivity measurement technology, use 1 pc of conductivity electrode (K=1), it can meet measuring accuracy requirement for range within 0.5µS/cm ~ 200mS/cm by using only one- point calibration. Can switch Conductivity, TDS, Salinity and Resistivity. Meter has the only product serial number.
- Dust-proof and waterproof meter meets IP54 standards. All sockets are seal protected by the silica gel caps.

ESL57759

Conductivity/TDS Portable Meter Kit

Our Portable Conductivity/TDS Meter Kit is the most economical choice for a reliable portable conductivity meter. Equipped with A Instrument BPB (Brush-Resistant Platinum Black) conductivity sensor/electrode/tester, the meter tests EC, TDS, and temperature simultaneously in a quick and accurate manner (Accuracy: ±1.0% F.S, Range: 0 to 200mS, 0 to 50°C(32 to 122°F) Auto or Manual Temperature



Compensation) Intelligent Functions: Quick & Easy 1 to 3 Points Auto Calibration. The Smart Self-Diagnosis helps you conduct proper calibrations and determine the condition of your probe. Fully configurable parameter setting: solution standards, temperature unit, backlight time, auto-power off time, TDS factor, temperature coefficient, etc. The large clear LCD displays EC/Temperature simultaneously along with icons of stable readings and finished calibrations.

Reliable Structure: IP57 Waterproof and Dustproof, ideal for use in harsh environments. It comes with a complete test kit including a Portable Conductivity Meter, a Conductivity Electrode, and 3 calibration solutions in a rugged carrying case. Powered by AA Batteries.

ESL57760



PH Meter Desk Top

Lab pH Meter DESK TOP

General laboratory bench pH meter, which is suitable for measuring moderate ionic strength solutions, such as surface water, lake water and industrial wastewater. It can be used in most of the areas related to water quality analysis. Meter meets with the requirement of international GLP standards. Its features up to automatic calibration, automatic temperature compensation, data storage, timing measurement, clock display, RS-232 output, function setting and self-diagnose etc.

- There are three different measurement modes: stable display mode; time measurement mode; continuous measurement mode. Automatically recognize pH buffer solution.
- Meter has the only product serial number. Dust proof and waterproof meter meets IP54 standards. All sockets are seal protected by the silica gel caps. pH .

ESL57753



Electrode Holder Flexible

Base of holder is made up of ABS hull, cast iron counter weight and axis of rotation of stainless steel three electrodes can be put into electrode chuck (electrode capΦ16 mm)

ESL57761



Meters

Electrode



Name	Combination pH electrode
Mode	D201G
Connector type	BNC
Housing material	Glass
Measurement range	0-14.0pH
Temp. range	0-100°C
Junction	Ceramic
Electrolyte	3 mol KCl (refillable)
Reference electrode	Ag/AgCl
Cable length	1m



Name	Combination pH electrode
Mode	D201A-C
Connector type	BNC
Housing material	PC
Measurement range	0-14.0pH
Temp. range	0-60°C
Junction	Ceramic
Electrolyte	3 mol KCl Gel
Reference electrode	Ag/AgCl
Cable length	1m



Name	Combination ORP electrode
Mode	DORP301
Connector type	BNC
Housing material	PC
Measurement range	-1999-+1999mV
Temp. range	Platinum ring 0-60°C
Junction	Ceramic
Electrolyte	3 mol KCl
Reference electrode	Ag/AgCl
Cable length	1m



Name	Combination Cond electrode
Mode	DCON201TG
Connector type	4-pins
Temp thermistor	10KΩ
Housing material	Glass
Constant	$K=1.0\pm 0.02\text{cm}^{-1}$
Sensor	Platinum plate
Measurement range	0.5μS/cm-200.0mS/cm
Temp. range	0-80°C
Cable length	1m



Name	Combination Cond electrode
Mode	DCON201/DCON201T
Connector type	BNC/4-pins
Temp thermistor	--- /10KΩ
Housing material	PC
Constant	$K=1.0\pm 0.02\text{cm}^{-1}$
Sensor	Platinum rod
Measurement range	0.5μS/cm-200.0mS/cm
Temp. range	0-80°C
Cable length	1m



Name	Ultra-purified water Cond electrode
Mode	DDJS-0.01V
Connector type	4 pins
Constant	$K=0.01\pm 0.02\text{cm}^{-1}$
Sensor	Titanium
Measurement range	0-2.0μS/cm
Cable length	1m



Name	Temperature electrode
Mode	DTEMP-01/DTEMP-02H
Connector type	miniBNC/4-pins
Sensor	10KΩ
Material	Stainless steel
Temp. range	0-110°C
Cable length	1m



Name	Polarographic DO
Mode	DDO01-2M-H/DDO01-2M
Connector type	8-pins / BNC & miniBNC
Housing material	POM
Measuring type	Polarographic type
Measurement range	0-20mg/L 0-200% Saturation
Temp. range	0-50.0°C
Cable length	2m



Name	Optical DO
Mode	DODO01-3M
Connector type	8-pins
Housing material	POM and stainless-steel protection guard
Measuring type	Optical type
Measurement range	0-20mg/L; 0-200% Saturation
Temp. range	0-50.0°C
Cable length	3m



NEW



Colorimeter 2.0 Basic

Measures transmittance or absorbance of visible light at three wavelengths through a sample with a 10mm path length and displays the values on a liquid crystal display or via USB to dedicated PC software or through a wireless connection to an app on iOS or Android phones and tablets. Disclaimer The colorimeter is suitable for educational use. It is not intended for clinical, commercial or research applications. Specifications Power source: 4x AA batteries (included) or USB-A to mini B Power switch: On/Off - automatic switch off after 2 minutes unless connected to USB or app. Wireless connection: Bluetooth 4.0 (LE, Smart) Measures: Transmittance: 0-100.0% - resolution 0.1% Absorbance: 0.000-1.999 stand alone or 0.000-3.000 with PC or phone/tablet - resolution 0.001 LEDs: Red ~630nm, Green ~525nm, Blue ~465nm Sample holder: 10x10mm plastic or glass cuvette, capacity 4mls or 12mm diameter test-tube Weight: 240g Packed weight: 420g includes 10 cuvettes, 10 cuvette caps, 2 test-tubes, USB cable, laminated quick instruction card, instruction manual, 4 x AA batteries, packaging. PC Software: System requirements: Windows 2000, XP, Vista, Windows 7, 8 or 10 with the .NET Framework 2.0 or later installed. Download: Free IOS app: Name: Mystrica Colorimeter Download: Free from the App Store Use with: iPhone 4S or later (not 4) or iPad Air, Mini, 3rd & 4th generation Android app: Name: Mystrica Colorimeter Download: Free from the Google Play Store Use with: Bluetooth 4.0 enabled Android devices Compliance: CE compliance tested FCC ID: 2AC8AMYS2 Warranty: 1 year subject to normal use

ESL57771

Colorimeter 2.0 Basic Set/4

set of four Colorimeter Wireless 2.00 ESL57771 and fitted in a deep Gragnells tray with alid and polyethylene foam insert ; Apart from the colorimeters the contents are :

- a box of 40 4ml cuvettes • a box of 80 cuvette caps • a box of 25 12mm glass test-tubes • 4 cuvette racks
- 4 USB cables • 4 laminated instruction sheets • 2 user manuals

ESL57771/4



NEW



Colorimeter 1G-7

New LED technology with broad spectral coverage - Works with a 10 x 10 mm cuvette or a 14 mm test tube - Can be used as a standalone measuring device or in Data Acquisition Systems Light source: LED - Measurement on 7 wavelengths between 470 and 660 nm - Wavelengths: 470 nm - 525 nm - 570 nm - 590 nm - 605 nm - 626 nm and 660 nm - Absorbance: from -3 to +3 abs - Transmission: from 0 to 100% T - Resolution: 0.01 abs / 100.0% - Precision: ± 1.5% - Analog output: on 4 mm safety banana sockets, -3V/3V corresponding to -3 abs/3 abs of absorbance. - 0V/1V corresponding to 0/100% transmission. - Power supply: mini USB power supply (provided). - Dimensions: 160 x 120 x 70 mm.

ESL57772

Student Spectrophotometer USB and Bluetooth

Technical Specifications: Measurement Modes: - Transmittance - Absorbance - Fluorescence/Bioluminescence Resolution: 2 - 3 nm Samples: 10x10mm cuvette or 50x50mm slide Spectral Range: 360 - 1000 nm Light Sources: - White LED + selectable colors (via software) - Side excitation LEDs 395-415 nm and 500-540 nm Connection: USB or Bluetooth Software: Integrated (USB mode) - Plug & Play Application: To download (Bluetooth mode) Power Supply: Built-in battery + charger included Python Compatibility: Yes Software Compatibility: W7 and +, Mac, Android, iOS Included Accessories: Cuvette/slide cover, cord, power block Battery: - Usage: 8 hours - Maximum charging time: 4 hours Dimensions: 190 x 120 x 60 mm.

ESL57814



Student Spectrophotometer USB and Bluetooth kit & Optical Fiber

ESL578140F



Spectrophotometer UV VIS Smart

Our Smart System can grasp the quantitative characteristics such as density or purity by measuring transmittance or optical density according to wavelength of sample in the range of ultraviolet rays and visible ray. Smart can be utilized from not only a general analysis experiment to but also a specialized research field and guarantee accurate measurement and excellent reproducibility, accordingly offer reliable results in the various fields such as environment, biotechnology, chemistry, etc.

Photometrics System	: Double-beam type
Spectral Bandwidth	: 1 nm (190 to 1100 nm)
Wavelength Range	: 1 nm (190 to 1100 nm)
Wavelength Display(setting)	: 0.1 nm
Wavelength Accuracy	: <± 0.05 nm at 486, 656.1 nm <± 0.3 nm (190 to 1100 nm)
Wavelength Repeatability	: <± 0.1 nm
Slew Rate	: About 8,800 nm/min
Scan Speed	: Max 4,000 nm/min
Photometric Range	: Absorbance: -4 to 4 Abs Transmittance: 0% to 400 %
Light Source	: Tungsten Halogen Lamp & Deuterium Lamp (Built-in light source auto interchanging motor)
Stray Light	: < 0.02 % NaI at 220 nm, NaNO ₂ at 340 nm

Monochromator	: Czerny-Turner type with 1200 lines/nm
blazed grating Standard	: Automatic Rotary type 8-position Multi- Cell
Multi-Cell Holder	: ± 0.0002 at 0.5 Abs
Photometric Repeatability	: ± 0.0006 at 1.0 Abs ± 0.001 at 2.0 Abs
Baseline Stability	: < 0.0003 Abs/h
Baseline Flatness	: <± 0.0005 Abs
Lamp Interchange	: 340-410 nm (Default 370 nm)
Wavelength Display	: 8 inch color LCD with touch screen
Operating System(OS)	: 8 inch color LCD with touch screen
Power Requirement	: Windows 10 (Embedded PC);
Weight(kg)	: Windows 10 (Embedded PC);
Dimensions(W x D x H)	: 100-240 V; 50-60 Hz

ESL57764



Spectrophotometer CCD

Native USB socket

Integrated software : no installation - Wavelength range: 380-800 nm

Easy to use, this spectrophotometer makes chemistry experiments feasible for students. Connected to the computer via a native USB socket, this spectrophotometer, with its integrated software, will be ready to acquire data whatever the workstation. New features: such as real-time spectrum observation. With 3D kinetics, the colorimetric dosage of a solution, initially transparent, can be carried out without knowing the final color of the solution. Functionalities maintained: absorbance, transmittance, Beer-Lambert, colorimetric dosage, monitoring of classic kinetics.

The acquisition duration (automatic or manual) makes it possible to adapt the measurement dynamics to the solution or filter analyzed.

Possible Experiments:

- Absorbance / Transmittance
- Beer-Lambert
- Colorimetric dosages
- Kinetic Monitoring: traditional and 3D
- Study of colored filters

Compatibility: XP/ Seven 32 & 64 bits/ Windows 8

Measurement mode: Absorbance-Transmittance

Integration time: auto or manual; 0.1ms to 5s.

Real-time spectrum

Photometric range: Abs: 0 to 2.5 / T (in %)

Power supply: supplied



ESL57765

Labware

Baseline Stability : ± 0.001 Abs/hBaseline Flatness : ± 0.002 Abs

Monochromator : Czerny-Turner type with 1200 lines/nm blazed grating

Light Source : Tungsten Halogen Lamp & Deuterium Lamp (Built-in light source auto interchanging motor)

Spectrophotometer Single Beam

Optical System	: Single Beam
Spectral Band Width	: 1.8 nm (190 to 1100 nm)
Wavelength Range	: 190 to 1100 nm
Wavelength Display(setting)	: 0.1 nm Wavelength
Accuracy	: ± 0.5 nm

Wavelength Reproducibility	: ± 0.1 nm
Slew Rate Scanning	: About 8,800 nm/min
Speed Photometric	: Max 4,000 nm/min
Range	: Absorbance : -3 to 3 Abs
Transmittance	: 0 % to 300 %
Photometric Accuracy	: ± 0.005 at 1.0 Abs
Photometric Reproducibility	: ± 0.003 at 1.0 Abs
Stray Light	: < 0.05 % NaI at 220 nm, NaNO ₂ at 340 nm

Standard Cell Holder	: Automatic Rotary type 8-position Multi-Cell Holder
Display	: 7 inch color LCD with touch screen
Operating System(OS)	: Windows CE
Power Requirement	: 100-240 V; 50-60 Hz
Overall Dimensions	: (W x D x H) 433 mm x 381 mm x 180 mm
Weight	: 8 Kg

ESL57763

Photometer Portable Mini

Optical System Reflectance Monochromatic with Optical LED Detector Photo-diode

Photo-diode 128x64 dot matrix graphic LCD

Printer Small label printer (Optional)

Power requirement Four 1.2V Ni-MH rechargeable batteries

DC 9V 1A Adapter

Inhibition Reproducibility $\pm 3\%$ Data save Maximum 2000

Interface Ports USB communications RS-232C serial

Data download PC S/W Provided (Optizen MiNiView)

Time setting Extraction 5min/Reaction 10min **Overall****Dimensions** : 110(W) x 48(H) x 245(D) **Weight** : 500g

ESL57767

Photometer Portable Round Cell Holder

Accessory for spectrophotometer

Photometer Portable Cell Holder Cover

Accessory for photometer portable mini

ESL57769

ESL57768





Spectrophotometer
ESL57810- ESL57811
ESL57812- ESL57813

The spectrophotometer is an indispensable instrument routinely used in colleges, universities and research institutes for quantitative analysis in fields including biotechnology and quality control of new material developed. V-Series provide high resolution, high performance and excellent stability.

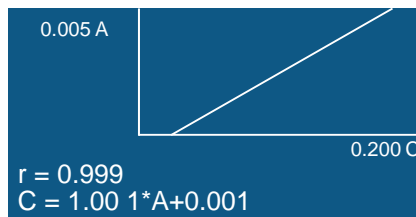
Features

- **User Friendly Operation and Information Rich LCD Display:** The large 128 x 64 dots, backlit LCD screen with adjustable brightness control displays a large array of data also in graphical format
- **On-Board Data Storage:** The System can save the test results, up to 200 group datas and 200 standard curves in the RAM memory
- Data can be restored after a sudden power failure
- **Auto setting wavelength:** Setting wavelength automatically to calibrate the system through arrow keys to avoid operation errors
- **Automatic Switching:** Tungsten & Deuterium lamps switching is automatic. Wavelength range are selectable from 190 to 1100nm
- **PC control through application software:** The spectrophotometer is fully equipped and capable of executing all functions in stand-alone mode. The optional application software 'Wave Professional' provides computer control through the built-in USB port, apart from other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (ESL57812/ESL57813)
- **Large sample compartment:** To accommodate 5-100mm path length cuvettes with optional holders. A variety of optional accessories are available

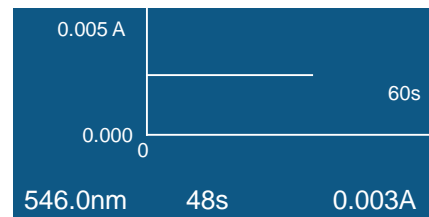
Basic Mode

546.0nm		0.001A
No.	WL.	Abs
1	230.0	0.001
2	340.0	0.000
3	450.0	0.002
4	540.0	0.000
5	620.0	0.003

Quantitative



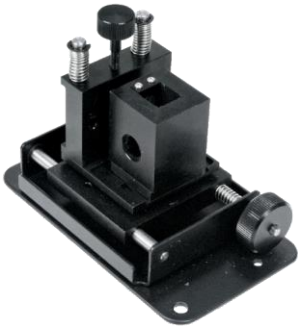
Kinetics





Model	ESL57810	ESL57811	ESL57812	ESL57813
Optical System	Single Beam	Single Beam	Single Beam	Single Beam
Light Source	Tungsten lamp	Tungsten lamp & Deuterium lamp	Tungsten lamp	Tungsten lamp & Deuterium lamp
Spectral Bandwidth	4.0nm	4.0nm	2.0nm	2.0nm
Wavelength Range	325-1000nm	200-1000nm	320-1100nm	190-1100nm
Wavelength Accuracy	±2nm	±2nm	±0.5nm	±0.5nm
Wavelength Repeatability	≤1nm	≤1nm	≤0.3nm	≤0.3nm
Photometric Range	-0.3 - 3.0 A, 0 - 200%T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200%T
Photometric Accuracy	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T
Photometric Repeatability	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T
Stability	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)
Stray Light	≤0.2%T @ 360nm	≤0.2%T @ 220&360nm	≤0.05%T @ 360nm	≤0.05%T @ 220 & 360nm
Sample Compartment	4-position, 10mm path length cuvette	4-position, 10mm path length cuvette	4-position, 10mm path length cuvette	4-position, 10mm path length cuvette
Display	LCD	LCD	LCD	LCD
Output	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)
Power	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 80W
Dimension(L×W×H)	490×360×210mm	490×360×210mm	490×360×210mm	490×360×210mm
Weight	12kg	14kg	12kg	14kg





Cat. No. 578100337
Micro Cell holder



Cat. No. 578100340
8-position auto cell changer
(for ESL57812& ESL57813)



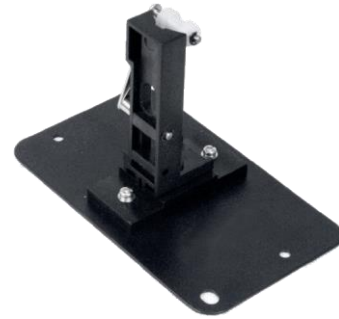
Cat. No. 578100331
4-cell holder for 10mm sq. cuvette



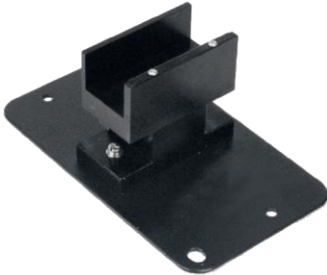
Cat. No. 5781000332
4-cell holder for 10mm
to 50mm sq. cuvette



Cat. No. 578100333
4-cell holder for up to
100mm sq. cuvette



Cat. No. 578100338
Test tube holder(ø8-ø22mm)



Cat. No. 578100334
cylindrical cell holder(ø16mm)



Cat. No. 578100339
solid sample holder
(ø1.5-3mmø1 position)



Cat. No. 578100335
10mm water-jacketed 1 cell holder
(for ESL57812& ESL57813)



Cat. No. 578100336
10mm water-jacketed 4-cell holder
(for ESL57812& ESL57813)



Cat. No. 578100343
Square cuvettes glass/quartz
1-5mm/10-100mm



Cat. No. 578100341
12V20W halogen lamp



Cat. No. 578100342
Milas deuterium lamp,10V,300mA,
30W (for ESL57812& ESL57813)



Disc Polarimeter

ESL57820

Range	±180°
Scale Value	1°
Vernier	0.05°
Magnifier	3X
Light Source	Sodium lamp
Wavelength	589nm
Tube Length	50, 100, 200mm
Power	220V/50Hz
Dimensions	500(L)×135(W)×330(H)mm
Weight	5kg
Package	600(L)200(W)×400(H)mm



Labware

Options

Cat. Number	Descriptions
57820001	Polarimeter Tube 100mm
57820002	Polarimeter Tube 200mm
57820003	Sodium Lamp 589nm

ESL-R03AR Series Abbe Refractometer

ESL57822

Model “ESL57822” is a simple yet highly reliable Abbe refractometer with a digital thermometer. Liquid, solid and pasty samples can be evaluated. This refractometer is robust, accurate and easy to use.

Optionally a solid aluminium case for transport and storage is available. It measures the refractive index (nD).



The main scope of applications is:

- Sugar industry: such as cane sugar
- Pharmacy
- Beverage industry
- Food industry
- Chemical industry
- Oil industry/Refinery
- Laboratories
- Training

Industry: Monitoring of lubricants for process and quality control

Food industry: Beverages, fruits and sweets

Agriculture: Determination of the degree of ripeness of fruits for quality control in harvesting

Restaurants and large-scale catering establishment

Model	Scales	Range	Resolution	Accuracy
ESL57822	Brix	0-95%	±0.1	0.25%
	Refractive Index	1.3000-1.7000nD	±0.0002nD	0.0005nD





Vernier Calliper - Whirl, Plastic

Columbus type calliper enabling the user to read either inside, outside or depth measurements. With dual scale 0-12 cm x 0.1mm Imperial scale graduated to 5 x 1/128 provided with thumb wheel for easy motion of jaws, in plastic case.

FCI E7774



Vernier Calliper - Whirl, Steel

Columbus type calliper enabling the user to read either inside, outside or depth measurements. With dual scale 0-12 cm x 0.1mm Imperial scale graduated to 5 x 1/128 provided with thumb wheel for easy motion of jaws, in plastic case.

FCI E777E



Vernier Calliper Digital

Measuring range : 0-150mm , Readability : 0.01mm

ESL57781



Vernier Caliper St. Steel

Vernier calliper made of aluminium , high quality .

ESL57777 0-150 0.05 mm

ESL57778 0-125 0.05 mm

Measuring Tape

Fiber glass windup meter tape with tow sides marking sealed in cannot tear-wind up case length Deferent meter

- ESL57791 Measuring Tape 5 M
- ESL57792 Measuring Tape 10 M
- ESL57793 Measuring Tape 15 M
- ESL57794 Measuring Tape 25 M
- ESL57795 Measuring Tape 50 M



Micrometer 0-25 Mm With Lock

With ratchet top, accurately machined stainless steel rod. Range 0-25 x 0.01 mm, supplied in case. Accuracy is perfect for a hobbyist or student

-- at 10mm, accuracy is +/- .003mm.

ESL57784



Micrometer 0- 25 mm

With ratchet top, accurately machined stainless steel rod. Range 0-25 x 0.01 mm, supplied in case. Accuracy is perfect for a hobbyist or student

-- at 10mm, accuracy is +/- .003mm.

ESL57783



Micrometer Digital

Measuring range : 0-25mm , Readability : 0.001mm

ESL57786



Spherometer Superior

Brass dial head about 40mm dia., Divided and marked in 100 divisions, vertical scale 10-0-10mm, fitted on heavy brass disc, with 3 pointed legs, distance between legs 40mm.

ESL57723

Engineering Rule

Engineering Rule



ESL57806





Flexible Desk Lamp

Versatile flexible neck
 •Metal and plastic construction
 •Integral on/off switch
 •Height: 340mm approx

ESL57877

Lamp Bulbs, Round

D Battery Holder with Socket
 Terminals Used as battery holder
 size UM1 or D; Size: 120 x 70mm,
 with 4mm socket terminal Material: Plastic ;Can be mounted on
 the board Weight : 0.029kg



ESL57900

Lamp Holder Mounted SBC

Solid steel Small Bayonet Cap (SBC) lamp holder with
 a tough powder coat paint finish and a solid brass lamp
 holder with 2 x 4mm electrical sockets. Ready to use.
 Pack of 10

ESL57880 (12V 21W lamp),PK OF 10

ESL57881 (12V- 36W Axial lamp), PK OF 10

ESL57882 (12V - 24W Axial lamp), PK OF 20



Lamp Bulbs, Round

M.E.S. Cap, 1.25V
 Lamp Bulb E 10, 1.5v/0.2a (10pcs/Pack)
 Lamp Bulb E 10, 1.5V/0.2A (10pcs/pack)
 Voltage: 1.5V
 Ampere: 0.2A Packaging: 10pcs/pack
 Dimension : 14.00 (L) x 9.00 (W) x 2.00cm (H)



ESL57890

ESL57889

Lamp Bulb E 10, 2.5v/0.5a (10 Pcs/Pack)

Lamp Bulb E 10, 2.5V/0.5A (10 pcs/pack)
 Voltage: 2.5V
 Ampere: 0.5A Packaging: 10pcs/pack
Dimension : 14.00 (L) x 9.00 (W) x 2.00 cm (H)
Weight : 0.013kg



ESL57888

Lamp Bulb E 10, 10V (10 PCS/Pack)

the value of the voltage should be printed clearly on the bulb.
 ESL57886

Lamp Bulb E 10, 12V (10 PCS/Pack)

the value of the voltage should be printed clearly on the bulb.
 ESL57886/12

Lamp Bulb E 10,5V (10 PCS/Pack)

the value of the voltage should be printed clearly on the bulb.
 ESL57887



Lamp Bulbs, Lens Ended
 2.2V, 0.25A, lens ended, M.E.S. Cap.

ESL57891

Buzzer Piezo

The tones is slow pulse with operating with 3V , the sound
 level SPL is 85dB and self resonant frequency about 3.7kHz.
 The dimension for external diameter is 29.5mm and external
 depth is 24.5mm with leaded process compatible



ESL57977



Battery Holders Pk Of 10

The Irwin Tapped pack of 10 battery holders hold 4 x D (R20)
 batteries with outputs at 1.5, 3, 4.5 and 6V. Batteries and leads
 not supplied. Each output has a 4mm socket. Manufactured in the
 UK from premium strong perspex.
 Manufactured in the UK

ESL57899



Battery Holder

Size: Overall : 175 x 62mm ,
 thickness 10mm for D size battery
 Material : Brass and plastic
 Positive and negative given plate
 attached to plastic base with bolts
 and given alligator clip, each
 battery with nuts and bolts of the
 base

ESL57901

Cell holder

Cell-holder Made of unbreakable plastic to hold battery, curved
 sides help prevent battery from falling out when it is upside down.

- ESL57903 Single For 'D' Size Battery
- ESL57904 Double For 'D' Size Battery
- ESL57905 Double For 'AA' Size Battery
- ESL57906 Single For 'AA Size Battery
- ESL57907 Stackable



Mini Motor DC

This little yet powerful motor is idea for hundreds of electrical
 experiments and projects. Voltage requirements are 1.5V -
 4.5V, 0.2A ,DC volts.

- ESP59128 Power requirements : 1.5V - 4.5V, 0.2 A
- ESP59129 Power requirements : 3V - 6V, 0.2A
- ESP59130 Power requirements : 6V - 12V, 0.2A

De-soldering Pump

High sucking power, plastic body
 with sturdy metal rod, easy to clean
 and maintain.

ESP59606



Soldering Iron

With wooden / Bakelite handle, lightweight body,
 element tested for high insulation, with long life
 pencil bit

- ESP59601 25 Watts
- ESP59602 65 Watts
- ESP59603 125 Watts

Soldering Iron Stand

Soldering iron with stand

ESL57453



Copper Wire

Bare copper wire roll - measured by mass, lengths Includes: 1 Spool

ESL57928	500g roll - 14 SWG (12 AWG) - 0.08" (2.0 mm) Dia. Approximate length is 50 ft.
ESL57929	500g roll, 16 SWG (14 AWG) - 0.064" (1.6 mm) Dia. Approximate length is 85 ft.
ESL57930	250g roll, 18 SWG (16/17 AWG) - 0.048" (1.2 mm) Dia. Approximate length is 80 ft.
ESL57931	250g roll, 20 SWG (19 AWG) - 0.036" (0.91 mm) Dia. Approximate length is 140 ft.
ESL57932	250g roll, 22 SWG (21 AWG) - 0.028" (0.71 mm) Dia. Approximate length is 225 ft.
ESL57933	250g roll, 24 SWG (23/24 AWG) - 0.022" (0.56 mm) Dia. Approximate length is 375 ft.
ESL57934	250g roll, 26 SWG (24/25 AWG) - 0.018" (0.46 mm) Dia. Approximate length is 550 ft.
ESL57935	250g roll, 28 SWG (29/30 AWG) - 0.0148" (0.38 mm) Dia. Approximate length is 800 ft.
ESL57936	250g roll , 30 SWG (32/33 AWG) - 0.0124" (0.32 mm) Dia. Approximate length is 1150 ft.
ESL57937	250g roll , 32 SWG (33/34 AWG) - 0.0108" (0.27 mm) Dia. Approximate length is 1500 ft.

**Chromium Resistance**

This is chromium wire that can be used in many applications in the classroom or lab. It's functional characteristics are the same as nichrome wire. It's makeup is 15% Cr, 4% Al, Balance Fe. Maximum operating temperature is 1150°C. Density is 6.74g/cm³ Many industrial and hobby hot wire foam cutters also use chromium wire. Chromium wire is also commonly used in ceramics, as an internal support structure to help some elements of clay sculptures hold their shape while they are still soft. Chromium wire is used because of its ability to withstand the high temperatures.

ESL57942	REEL, SWG - 14
ESL57943	18 GAUGE SWG - 16/17 AWG - 0.048" DIA. Includes: (1) 125g Roll
ESL57944	20 GAUGE SWG - 19 AWG - 0.036" DIA. Includes: (1) 125g Roll
ESL57945	22 GAUGE SWG - 21 AWG - 0.028" DIA. Includes: (1) 125g Roll
ESL57946	24 GAUGE SWG - 23/24 AWG - 0.022" DIA. Includes: (1) 125g Roll
ESL57947	26 GAUGE SWG - 24/25 AWG - 0.018" DIA. Includes: (1) 125g Roll
ESL57948	28 GAUGE SWG - 29/30 AWG - 0.0148" DIA. Includes: (1) 125g Roll
ESL57949	30 GAUGE SWG - 32/33 AWG - 0.0124" DIA. Includes: (1) 125g Roll
ESL57950	32 GAUGE SWG - 33/34 AWG - 0.0108" DIA. Includes: (1) 125g Roll
ESL57951	REEL, SWG - 32
ESL57952	REEL, SWG - 34
ESL57953	REEL, SWG - 36

**Eureka Constantan Wire**

Useful for resistance coils. Wire of copper-nickel alloy having low temperature coefficient. Mass (per reel) : 125g

ESL57938	REEL , SWG 34 (33/34 AWG) -
ESL57939	REEL , SWG 36 (33/34 AWG) -
ESL58031	REEL , SWG 14 (12 AWG) - 0.08" (2.0 MM) DIA.
ESL58032	REEL , SWG 16 (14 AWG) - 0.064" (1.6 MM) DIA.
ESL58033	REEL , SWG 18 (16/17 AWG) - 0.048" (1.2 MM) DIA.
ESL58034	REEL , SWG 20 (19 AWG) - 0.036" (0.91 MM) DIA.
ESL58035	REEL , SWG 22 (21 AWG) - 0.028" (0.71 MM) DIA.
ESL58036	REEL , SWG 24 (23/24 AWG) - 0.022" (0.56 MM) DIA.
ESL58037	REEL , SWG 26 (24/25 AWG) - 0.018" (0.46 MM) DIA.
ESL58038	REEL , SWG 28 (29/30 AWG) - 0.0148" (0.38 MM) DIA.
ESL58039	REEL , SWG 30 (32/33 AWG) - 0.0124" (0.32 MM) DIA.
ESL58040	REEL , SWG 32 (33/34 AWG) - 0.0108" (0.27 MM) DIA.
ESL58041	REEL , SWG 34 (33/34 AWG) -
ESL58042	REEL , SWG 36 (33/34 AWG) -



NEW





Crocodile Clip With Plastic Sleeved Pk/10

Spring-loaded, serrated jaws, with screw to clamp end of lead held in tubular extension, both sides insulated. Length 50 mm and jaws open 9 mm, Black Colour

- ESL57957 Black
- ESL57956 Red



Safety Socket For Banana Plugs

Safety socket 4mm for Banana plugs in improved design.

- ESL57910 Black
- ESL57911 Fdc
- ESL57912 Yellow
- ESL57913 Green



Wire PVC Coated Reel (MS)

Multi-strand copper wire, flexible PVC insulated, capable of carrying current up to 5A. Supplied in rolls of 10m

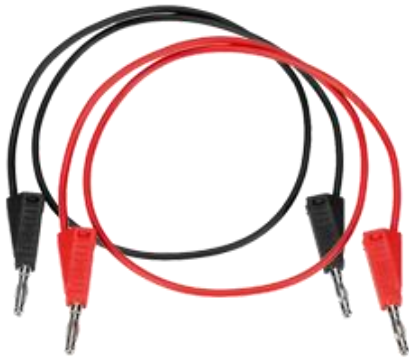
ESL58029



Crocodile Clip Pk/10

Crocodile clip without sleeve Pk/10

ESL57955



Banana Plugs With wire 4mm Stackable Plug Lead

- ESL57914 Length 50 cm , Red
- ESL57915 Length 50 cm , Black
- ESL57916 Length 25 cm , Red
- ESL57917 Length 25 cm , Black
- ESL57918 Length 75 cm , Red
- ESL57919 Length 75 cm , Black
- ESL57920 Length 100 cm , Red
- ESL57921 Length 100 cm , Black



Connecting Wire With 2 Side Crocodile clips

- ESL57958/RED Wire W/2 Side Crocodile clips 25 Cm Red
- ESL57958/BLK Wire W/2 Side Crocodile clips 25 Cm Black
- ESL57959/RED Wire W/2 Side Crocodile clips 50 Cm Red
- ESL57959/BLK Wire W/2 Side Crocodile clips 50 Cm Black
- ESL57960/RED Wire W/2 Side Crocodile clips 100 Cm Red
- ESL57960/BLK Wire W/2 Side Crocodile clips 100 Cm Black



Connecting Wire With 1 Side 4mm Lead & 1 Side Crocodile clip

- ESL57968/RED Wire 1Side Lead 1 Side Crocodile clip , Cable length 25 cm Red
- ESL57968/BLK Wire 1Side Lead 1 Side Crocodile clip , Cable length 25 cm Black
- ESL57969/RED Wire 1Side Lead 1 Side Crocodile clip , Cable length 50 cm Red
- ESL57969/BLK Wire 1Side Lead 1 Side Crocodile clip p , Cable length 50 cm Black
- ESL57970/RED Wire 1Side Lead 1 Side Crocodile clip , Cable length 100 cm Red
- ESL57970/BLK Wire 1Side Lead 1 Side Crocodile clip , Cable length 100 cm Black





Lead Acid Accumulator

Battery storage, in transparent case, without acid, uncharged fitted with handle.

Capacity 20 AH. Item measures 6.5" tall, 3.5" wide and 2.75" long.

Battery Storage

Transparent case, printed with product specifications

Includes removable fitted handle

Negative and positive marked terminal

ESL57994



Battery UV Unit

Battery powered Ultra

Violet light source ideally suited to demonstration use. Comes complete with on/off switch.

Requires 4 x AA batteries (not supplied).

Dimensions (L x H x W): 165 x 35 x 41mm.

ESL57898



Battery Eliminator DC 0-6 V , 1 A

A low cost alternative to dry cell batteries. Housed in a robust ABS plastic case (IPC-0577-P). Ideally suited as a replacement in applications where batteries are normally used. Smoothed and regulated DC is available over those ranges selected by rotary switch. Output is via 4mm red and black sockets. The DC output voltage available are 1.5, 3, 4.5 and 6VDC at a maximum current of 1A.

Electrical Supply: 220-240VAC, 50-60Hz

Dimensions: 150 x 100 x 80mm overall

Mass: 0.85kg

DC Output Voltage Range: 1.5, 3, 4.5 and 6VDC

Maximum DC Output Current: 1A

ESP60841



Sandpaper Pack of 10 sheets

(sheet size in 230mm x 280mm) (grit 800)

ESL57455



Felt Tipped Pens PK/12

Versatile Felt Tipped Pens PK/12

ESL57871



Pencil

Pencil PK/144

ESL57873



Smart materials handling kit

The smart materials handling case offers a diverse range of innovative materials, making it an excellent choice for presentations or demonstrations. It includes a smart materials book along with essential accessories for material manipulation. The case dimensions are 46 x 33 x 15cm.

Contained within the case are:

Thermally responsive materials such as thermochromics pigment, thermo film, thermal paper (fax), phase change powder, and thermo cord.

Smart alloys and polymers, including shape memory polymer, smart putty, rare earth magnet, shape memory wire, memory wire, 2-way memory spring, conductive polymer, and smart link tubing.

Optically responsive materials and LEDs like glow-in-the-dark film, optical fiber, UV fluid, UV beads, LEDs, smart film, and lenticular film.

Fibers and woven materials such as cocoons, Kevlar fabric, carbon

fiber fabric, ripstop nylon, silk, Lycra, genuine carbon fiber sheet, and electrotextile.

Special polymers including polymorph, hydrogel, expanse, chromatic alginate, and Eco film.

'Nano' materials and others like QTC pills, chameleon nano flakes, piezo transducer, and mirror film.

ESL58091



Water Bath



Water Bath Laboratory 20L Digital

Features:

- 20 liter heating capacity
- can easily maintain a stable internal temperature
- Up to +100° C temps, shown on an LED display
- Overheating protection
- High temp accuracy and adjustment with a PID controller
- The water bath has a high temp and corrosion resistant lid, made of 304 stainless steel
- Unit has a dedicated internal magnetic circulation pump which allows it to distribute the heat evenly and prevent any water from leaking
- Even temperature spreading helps to avoid any bumping phenomenon while machine is used level warning

- Rapid heating, the temperature remains constant after reaching the set temperature
- High temperature accuracy with overheating protection
- High temperature resistant and corrosion free lid made up of 304 stainless steel
- Electronic components are easy to disassemble. Safe and easy to maintain



Labware

Specifications

ESL58218

Display	LED	Dimension[mm]	667x349x357
Temperature range [°C]	Room temp. +5-80	Housing	Q235 Plastic panel
Temperature stability at 37°C[°C]	±0.5	Parts touch water (including lid)	Stainless steel
Temperature accuracy at 37°C[°C]	±0.3	Weight[kg]	16.2
Bath volume [L]	20	Voltage[V]	220V, 50/60Hz
Circulating pump	No	Heating power[W]	1000
Overheating protection	yes	Ambient temperature[°C]	+10-40
Temperature sensor	PT1000	Ambient humidity[% RH]	<80



Water Bath 100 °C - 16 Tubes

Display, setting, and regulation precision
 Supplied with its stainless steel rack 16 tubes
 Heats up and maintains the temperature up to 100

Features:

- Tank: Transparent with minimal temperature level
- Stability: ±1 °C
- Homogeneity: ±1 °C
- Setting: Setting of the set temperature by push button within 1 °C accuracy up to 100 °C
- Heating: by W resistance with regulation at ±1 °C
- Power: 600 W
- Transparent tank with holes for 16 test tubes Ø 18 mm - Maximum heating temperature ≥ 80 °C - Bath temperature probe - Display of set temperature and actual bath temperature on digital screen - Tube rack and bottom plate provided - Rectangular shape allowing for stacking of water baths for easy storage - Safety device in case of overheating or lack of water - Fuse protection - Tanks and resistances protected to prevent burns - Power switch - Power cable provided

ESL58215





Water Bath Thermost

Digital baths are designed for general use and are economically priced without compromising quality. Simple digital controller for setting temperature in 1°C increments. Designed for immersion of flasks, bottles and racks in a highly stable temperature environment. Available in 4, 14 and 22 litre options. **High quality build and features**

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. Fitted with side lifting handles for easy lifting.

High quality build and features Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. Fitted with side lifting handles for easy lifting.

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel in 1°C increments. Temperature setting is retained in memory, even after 'power off'. Water baths are pre-calibrated for consistent accuracy. Thermal cut out fitted in the heater. IP rated, illuminated on/off power switch and heater indication lamp. Bath fitted with non-slip rubber feet.

Temperature

Display/resolution: Digital

LED/1°C Temp. Range: Ambient

+ 5°C - 99°C Temp. Setting:

Push button

Stability/uniformity: ± 0.2°C/±

0.1°C

Temperature memory: Retained in memory even after 'power off.'

ESL58188	Capacity : 4 Ltr	Dimensions External: 332w x 185d x 290h mm Internal: 300w x 150d x 150h mm
ESL58189	Capacity : 14 Ltr	Dimensions External: 361w x 332d x 290h mm Internal: 325w x 300d x 150h mm Water level maximum: 130mm shelf fitted working depth 115mm
ESL58190	Capacity : 22 Ltr	Dimensions External: 538w x 332d x 290h mm Internal: 500w x 300d x 150h mm Water level maximum: 130mm shelf fitted working depth 115mm

All models have 3 year warranty
Complete with perforated shelf for even heat distribution
Side lifting handles
UK manufactured
Accessory lids, racks and baskets available





Water Bath Thermostatic Unstirred Digital

Clifton digital baths provide a stable temperature environment ideal for meeting quality control requirements, featuring PID temperature control for precision.

Designed for immersion of flasks, bottles and racks for a wide variety of laboratory applications.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. Fitted with side lifting handles for easy lifting.

Heaters and temperature sensor are concealed under the tank providing a clutter free working area which is easy to wipe clean. Supplied with a removable sturdy low height stainless steel perforated shelf, for even heat distribution. The shelf provides a deeper volume of water, for standing containers and accessory test tube racks in the bath. Three year warranty and comprehensive customer support. Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the bath should be covered with a lid. Clifton Range®

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel, featuring a bold LED display. The high precision PID temperature controller, ensures that accuracy and repeatability is guaranteed. Temperature is set in increments of 0.1°C and retained in memory, even after 'power off'. Water bath features a thermal safety cut out which is fitted to the heater. There is an over temperature alarm automatically set at 4°C above set temperature, including a visual indicator and safety heating cut out, to protect samples from over heating. Water baths are pre-calibrated at two separate temperatures for consistent accuracy. IP rated, illuminated on/off power switch and heater indication lamp. Bath fitted with non-slip rubber feet.

Temperature

Display / resolution: Digital LED / 0.1°C

Temp. Range: Ambient + 5°C - 99°C

Temp. Setting: push button in 0.1°C increments

Stability/uniformity: ± 0.2°C / ± 0.1°C

Temperature memory: Retained in memory even after 'power off.'

ESL58192	Capacity : 4 Ltr	Dimensions External: 332w x 185d x 290h mm Capacity Nominal Tank Capacity: 4 Litres	Internal: 300w x 150d x 150h mm Brimful Capacity: 6 litres
ESL58193	Capacity : 8 Ltr	Dimensions External: 332w x 270d x 290h mm Capacity: Nominal Tank Capacity: 8 Litre	Internal: 300w x 240d x 150h mm Brimful Capacity: 10 litres
ESL58194	Capacity : 14 Ltr	Dimensions External: 361w x 332d x 290h mm Capacity Nominal Tank Capacity: 14 Litres	Internal: 325w x 300d x 150h mm
ESL58195	Capacity : 22 Ltr	Dimensions External: 538w x 332d x 290h mm Capacity Nominal Tank Capacity: 22 Litres Drain outlet fitted, large 12mm bore for fast emptying an accessory tap can be added for convenience.	Internal: 500w x 300d x 150h mm

All models have 3 year warranty

Complete with perforated shelf for even heat distribution Side lifting handles

UK manufactured

Accessory lids, racks and baskets available





Water Bath Thermostatic Unstirred Analogue

Analogue boiling baths are designed for applications that require continuous boiling. This range has the flexibility where the controls can be regulated from a

Gentle simmer to a vigorous boil.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. The bath, which is simmer-statically controlled, is ideally suited to prolonged periods of boiling. Fitted with side lifting handles for easy lifting.

Fitted with a sheathed immersion element and thermal safety cut out. The heater is directly immersed in water providing rapid boiling. Fitted with a constant level device, that maintains a fixed level of liquid which eliminates the need to regularly top up the bath. Three year warranty and comprehensive customer support. Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the bath should be covered with a lid. Deep chamber option (product code: NE1B-18W) can be fitted with an accessory tray to conveniently raise or immerse items in boiling water and is suitable for immersion of tall vessels. Clifton Range®

Controls and safety

Easy to use analogue dial pointer for setting temperature in 10°C increments. The bath can control the amount of boiling from a gentle simmer to a vigorous boil. Thermal cut out fitted in the heater.

Always connect the constant level with laboratory tubing to a water supply, adjust the flow to gently top up the water level, whilst maintaining boiling. IP rated, illuminated on/off power switch and heater indication lamp. Bath fitted with non-slip rubber feet.

Temperature

Temp. Range: Simmer to boiling at 100°C

Temp. Setting: analogue dial pointer

Temp. Control: Energy regulator controls the amount of boiling from a gentle simmer to vigorous boil

ESL58196	Capacity : 14 Ltr	Dimension : s (mm) Overall - 361w x 332d x 290h / Working - 325w x 300d x 150h Electrical supply: 230v Power consumption: 2500w
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ESL58197	Capacity : 18 Ltr	Dimension : s (mm) Overall - 362w x 332d x 290h / Working - 325w x 300d x 200h Electrical supply: 230v Power consumption: 2500w Drain outlet: Drain outlet fitted, large 12mm bore for fast emptying Deep fill chamber: can be fitted with accessory tray to raise or immerse items into boiling water Accessory tray: ST-1 - Raise and lower sterilizing tray. SA01409 - Pair of guide rail assemblies for ST1 Tray and NE1B-18W
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All models have 3 year warranty

Complete with shelf for good water circulation UK manufactured

Accessory lids, racks and baskets available





Water Bath Thermostatic

Clifton digital stirred baths provide a stable temperature environment ideal for meeting quality control requirements, featuring PID temperature control for precision. Designed for immersion of flasks, bottles and racks for a wide variety of laboratory applications.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. The thermostirrer is robust and entire casing is constructed from stainless steel for durability.

Supplied with a removable stainless steel shelf, ensuring good water circulation throughout the chamber. Three year warranty and comprehensive customer support. Accessory lids, racks, coolers and shelves available. Above 60°C or below ambient it is recommended that to achieve optimum performance the bath should be covered with a lid. Clifton Range®

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel, featuring a bold LED display. The high precision PID temperature controller, ensures that accuracy and repeatability is guaranteed. Temperature is set in increments of 0.1°C and retained in memory, even after 'power off'.

When a low liquid level is detected "FILL" message automatically appears on the display and heating is suspended. Once refilled, heating is restored and temperature control resumes automatically. There is an over temperature alarm automatically set at 4°C above set temperature, including a visual indicator to protect samples from over heating.

Water baths are pre-calibrated at two separate temperatures for consistent accuracy. Illuminated on/off power switch and heater indication lamp. Bath fitted with non-slip rubber feet.

Temperature

Display / resolution: Digital LED / 0.1°C
Temp. range: Ambient + 5°C - 99°C

Ambient to -20°C with accessory immersion dip cooler (DC1-300 or DC2-300)
Temp. setting: push button in 0.1°C increments

Stability/uniformity: ± 0.05°C / ± 0.01°C

Temperature memory: Retained in memory even after 'power off.'
Timer : Variable 00:01 to 99.59 hh:mm.

Audible alarm and visual 'end' message

Safety feature: Low liquid level warning

ESL58198	Capacity : 14 Ltr	Dimension :s (mm) Overall - 361w x 332d x 170h / Working - 219w x 298d x 150h Electrical / power supply: 120v or 230v models available/ 1250w
ESL58199	Capacity : 28 Ltr	Dimension :s (mm) Overall - 537w x 332d x 240h / Working - 395w x 298d x 200h Electrical / power supply: 120v or 230v models available / 1250w

All models have 3 year warranty
Complete with shelf for good water circulation UK manufactured
Accessory lids, racks and baskets available





Water Bath Thermostatic Digital Oil Heating Circulator

Clifton® Digital Water and Oil Heating Circulator are designed for external circulation of temperature controlled water and heat transfer fluids in a closed circuit or for maintaining a stable temperature environment in the bath for the immersion of flasks, bottles and racks.

Thermocirculator can be fitted to water baths, tanks and containers using accessory Mount Bracket.

Clifton® Thermostirrer is a durable stainless steel construction, painted surfaces are powder painted with tough anti-bacterial finish with good chemical resistance. Easy to use controls that wipe clean and have an anti-bacterial finish. Immersed components are corrosion resistant. Quiet running in use and providing excellent water temperature stability. Indication of heating, over temperature alarm and timer running. When a low liquid level is detected a “Fill” message automatically appears and heating is suspended. Once refilled, heating is restored and temperature control resumes automatically.

Over and under temperature alarms automatically protect work in the water bath, providing heater cut off, visual message and indicator. A second safety device can be set just above the working temperature, protecting samples.

Thermocirculator pump comes with convenient push-fit and lock fittings on both inlet and outlet ports for secure external liquid circulation.

Controls

Featuring a bold LED display of measured temperatures in real-time and in increments of $\pm 0.1^{\circ}\text{C}$, using a precision PID temperature controller. Setting for water temperature only or combination of temperature and time. Timer setting variable in 1-minute increments from 00:01 [hh:mm] to 99:59 [hh:mm] with “end” message on completion of the timed period. Time and temperature settings are retained in the memory, even after the unit has been turned off.

Easy to use controls, utilising touch keypads for setting time and temperature values with indicators for heating, over temperature alarm and timer. The heater unit can be set to run at a set temperature or commence the timer once the water reaches set temperature.

Features auto setting over and under temperature alarm protecting your work at set temperature. Every unit undergoes a factory calibration at two temperatures for validation.

A second safety device can be set just above the working temperature, protecting samples.

ESL58200	Capacity : 14 ltr	“Dimension :s External: 361w x 332d x 170h mm Thermocirculator additional 120mm to bath height Internal: 219w x 298d x 150h mm - working area of the bath Capacity Nominal Tank Capacity: 14 Litres”
ESL58201	Capacity : 22 ltr	“Dimension :s External: 537w x 332d x 170h mm Internal: 395w x 298d x 150h mm Capacity Nominal Tank Capacity: 22 Litres”

All models have 3 year warranty
Complete with shelf for good water circulation UK manufactured
Accessory lids, racks and baskets available





Water Bath Thermostatic 2 Ltr Shallow, Comp. W. S. steel Perforated False Base

Clifton shallow Baths™ are available in digital or analogue option. Their small footprint provides a stable temperature environment for life science preparations. Perfect for heating small height samples such as micro tubes, micro plates and bottles.

High quality build and features

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. The shallow chamber is perfect for heating smaller samples. Heaters and temperature sensor are concealed under the tank providing a clutter free working area which is easy to wipe clean. Supplied with a removable sturdy low height stainless steel perforated shelf, for even heat distribution. Three year warranty and comprehensive customer support. Accessory lids available. Above 60° it is recommended that to achieve optimum performance the bath should be covered with a lid. Clifton Range®

Controls and safety

Digital bath option allows temperatures to be easily and rapidly set with the push button, wipe clean control panel, featuring a bold LED display. High precision PID temperature controller that ensures accuracy and repeatability is guaranteed. Temperature setting in increments of 0.1°C and temperature setting retained in memory, even after 'power off'.

Thermostatic bath option has an easy to use analogue dial pointer for setting temperature in 5°C increments.

All Shallow Baths™ have IP rated, illuminated on/off power switch and heater indication lamp. Features a thermal safety cut out which is fitted to the heater. Digital baths feature an over temperature alarm automatically set at 4°C above set temperature, including a visual indicator and safety heating cut out, to protect samples from over heating. Shallow Bath™ fitted with non-slip rubber feet.

Temperature

Digital

Display / resolution: Digital LED /

0.1°C Temp. Range: Ambient + 5°C

- 99°C Temp. Setting: push button

Stability/uniformity: ± 0.2°C / ±

0.1°C

Temperature memory: Retained in memory even after

'power off.' Thermostatic

Temp. Range: Ambient + 5°C -

99°C Temp. Setting: analogue

dial pointer Stability/uniformity:

± 0.25°C / ± 0.1°C

ESL58202

Capacity : 2 ltr

Dimension :s (mm) Overall - 332w x 185d x 135h / Working - 300w x 150d x 65h
Electrical / power supply: 120v or 230v models available / 200w

All models have 3 year warranty

Complete with shelf for good water circulation UK manufactured

Accessory lids, racks and baskets available





Water Bath Thermostatic Triple

Clifton analogue Triple-baths™ feature three independently controlled unstirred water baths in one space saving unit. Ideal for heating samples in micro centrifuge tubes and for other molecular biology applications.

High quality build and features

Comprising of 3 high quality corrosion resistant stainless steel tanks, with a bright clean finish housed in a durable painted outer case. Each chamber can be set to a different temperature and used simultaneously. Painted surfaces feature antibacterial finish with good chemical resistance.

Triple 4 litre bath is fitted with side lifting handles for easy lifting. These shallow baths require less water and less process chemicals, so are therefore economical to use.

Heaters and temperature sensors are concealed under the tanks providing a clutter free working area which is easy to wipe clean. Supplied with 3 removable sturdy low height stainless steel perforated shelves, for even heat distribution. Triple-baths™ are available in two sizes, 3 x 2 litre and 3 x 4 litre chambers.

Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the chambers should be covered with a lid. Covering the bath also reduce energy consumption and running costs. Three year warranty and comprehensive customer support.

Controls and safety

Easy to use analogue dial pointer for setting temperature, graduated in 5°C divisions for each tank. With 3 independent controllers, each chamber can be operated separately and simultaneously. The Triple-bath™ includes IP rated, illuminated on/off power switch and heater indication lamp for each tank. Water baths are pre-calibrated for consistent accuracy. Thermal cut out fitted in the heater. Bath fitted with non-slip

Rubber feet.

Temperature

Temperature control: Analogue dial pointer - graduated in 5°C divisions Temp. range: Ambient + 5°C - 99°C

Temp. setting: Turn dial pointer

Stability/uniformity: ± 0.5°C/± 0.5°C

ESL58203	Capacity : 2 Ltr	Dimension :s External : 535w x 332h x 135h mm Internal: 300w x 150d x 65h mm Capacity Nominal Tank Capacity: Triple bath tanks, 2 Litres each.
ESL58204	Capacity : 4 Ltr	Dimension :s External : 535w x 332h x 290h mm Internal: 300w x 150d x 150h mm Capacity Nominal Tank Capacity: Triple tanks, 4 Litres each

All models have 3 year warranty

Complete with shelf for good water circulation UK manufactured

Accessory lids, racks and baskets available





Water Bath Digital Triple-bath

Clifton digital Triple-baths™ feature three independently controlled unstirred water baths in one space saving unit. Ideal for heating samples in micro centrifuge tubes and for other molecular biology applications.

High quality build and features

Comprising of 3 high quality corrosion resistant stainless steel tanks, with a bright clean finish housed in a durable painted outer case. Each chamber can be set to a different temperature and used simultaneously. Painted surfaces feature antibacterial finish with good chemical resistance.

Triple 4 litre bath is fitted with side lifting handles for easy lifting. These shallow baths require less water and less process chemicals, so are therefore economical to use.

Heaters and temperature sensors are concealed under the tanks providing a clutter free working area which is easy to wipe clean. Supplied with 3 removable sturdy low height stainless steel perforated shelves, for even heat distribution. Triple baths™ are available in two sizes, 3 x 2 litre and 3 x 4 litre chambers.

Accessory lids available. Above 60°C it is recommended that to achieve optimum performance the chambers should be covered with a lid. Covering the bath also reduce energy consumption and running costs. Three year warranty and comprehensive customer support.

Controls and safety

Temperatures can be easily and rapidly set with the push button, wipe clean control panel. Temperature displayed clearly with bright LED display in 1°C increments. Temperature setting is retained in memory, even after 'power off.' With 3 independent controllers, each chamber can be operated separately and simultaneously.

The Triple-bath™ includes IP rated, illuminated on/off power switch and heater indication lamp for each tank.

Water baths are pre-calibrated at two separate temperatures for consistent accuracy. Thermal cut out fitted in the heater. Bath fitted with non-slip rubber feet.

Temperature

Display/resolution: Digital

LED/1°C Temp. Range: Ambient

+ 5°C - 99°C Temp. Setting: Push

button Stability/uniformity: ±

0.25°C/± 0.1°C

Temperature memory: Retained in memory even after 'power off.'

ESL58205	Capacity : 2 ltr	Dimension : External: 535w x 332h x 135h mm Internal: 300w x 150d x 65h mm Capacity Nominal Tank Capacity: Triple tanks, 2 Litres each
ESL58206	Capacity : 4 ltr	Dimension : External: 535w x 332h x 290h mm Internal: 300w x 150d x 150h mm Capacity Nominal Tank Capacity: Triple tanks, 4 Litres each

All models have 3 year warranty

Complete with shelf for good water circulation UK manufactured

Accessory lids, racks and baskets available





Hinged Lid Assymoulded Lid New Style Clear Plastic

Hinged lid assymoulded lid new style clear plastic

ESL58209



Stainless Steel Gabled Lid

Stainless steel gabled lid

ESL58210

Test Tube Rack Stainless Steel 18 X 19mm

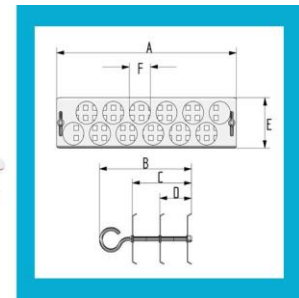
Test tube rack stainless steel 18 x 19mm

ESL58211

Test Tube Rack Stainless Steel 12 X 32mm

Test tube rack stainless steel 12 x 32mm

ESL58212



Water bath Irwin school

The Irwin water bath specifically designed for School Science Departments. It is built around a Gratnells deep tray and so can be stored in a Gratnells trolley. Water capacity is from 2 to 8 litres. Because of the shallow profile of the heating element, 3 litres of water gives the equivalent depth to 8 litres in a EduScience Bath, thus it reaches temperature much faster. Digital temperature control will maintain the water temperature within 1 degree Centigrade. Separate temperature sensor which can control the whole bath or an individual test tube. 500W silicone heating element. Particularly suitable for hard water areas as the element may be easily removed and cleaned. Gives additional bench space in the prep room. Light and easy to carry with safety cut-out sensor.

Even temperature distribution no stirrer required. Student proof temperature lock. Large capacity will take up to 4 test tube racks. Cost effective and practical solution for all your water bath needs. Comes complete with a lid and Z type test tube rack. Available in either 60 degrees centigrade or 100 degrees Centigrade options.

ESL58207

60 degrees C

ESL58208

100 degrees C

Ultrasonic Bath

- Frequency: 53KHz , • Heating: No, • Degas: Yes, • Timer (minute): 1-99, • Housing: SUS304,
- Drain : No, • Stainless steel cover: Yes
- Ultrasonic power(W): 100, • Heating power(W): No, • Degas power(W): 100,



ESL58245

Capacity : 3 Ltr

Tank size (LxWxD) cm : 24x14x10
Overall size (LxWxD) cm : 27x16x24
Tank capacity (litre): 3

ESL58246

Capacity : 6 Ltr

Tank size (LxWxD) cm : 30x15x15
Overall size (LxWxD) cm : 33x18x29
Tank capacity (litre): 6





Water Bath Ultrasonic, Thermostatic Heated And Timed ,Ultrasonic -230V

Clifton industrial strength ultrasonic baths are designed for demanding applications and suitable for continuous operation. Featuring heating and timer controls with ultrasonic boost, degas and sweep functions. Ideal for cleaning delicate or fragile components and glassware, especially where there may be a risk of breakage as a result of manual cleaning.

High quality build and features

High quality stainless steel tank and construction for durability. Fitted with side lifting handles for easy lifting. Featuring ultrasonics with sweep function for perfect and even distribution of ultrasonic activity. Features an ultrasonic boost function for 25% more power. The auto-degassing function is useful for liquid changes in the tank, de-carbonating and degassing HPLC solutions.

Three year warranty and comprehensive customer support. Accessory lids available. It is recommended that to achieve consistent heating, minimise evaporation and to prevent contamination when ultrasonic bath is not in use, it should be covered with a lid. Clifton Range®

Controls and safety

Temperature, time and activating sonic can be easily and rapidly set with the push button, wipe clean

Control panel, featuring an illuminated bold display. Splash proof controls with a drip bar above control panel, guides spills and drips away from the easy to use temperature and timer dials.

Touch keypads for boost, sweep, degas with start/stop and on/off functions. Temperature is set with analogue dial in increments of 5°C, time values in 1 minute increments with indication of time remaining as well as a permanent 'on' function. Bath will switch off after 12 hours if no keys have been activated, to prevent unintended operation.

Heating elements are controlled electronically to reduce energy demand and prevent overheating if allowed to run dry. Illuminated on/off power switch. Bath fitted with non-slip rubber feet. This range is designed for intermittent and permanent 'on' use. Do not allow items to touch base of the tank, we recommend accessory baskets.

Temperature

Display / resolution : Digital LED /

0.1°C Temp. Range : 30°C - 80°C

Temp. Setting: Analogue dial pointer in increments of 5°C

Timer: Time setting 1 minute with indication of time remaining or permanent 'on' function.

ESL58205	Capacity : 1 ltr	<p>Dimension :s (mm) Overall - 200w x 100d x 180h / Working - 190w x 85d x 60h</p> <p>Electrical / power supply: 120v or 230v models available</p> <p>/ 60w Ultrasonic effective output: 30w</p> <p>Ultrasonic peak power / frequency: 240w / 38kHz Accessory basket: BSK-1</p>
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ESL58206	Capacity : 12 ltr	<p>Dimension :s (mm) Overall - 365w x 278d x 321h / Working - 300w x 240d x 200h</p> <p>Electrical / power supply: 120v or 230v models available / 800w</p> <p>Ultrasonic effective output: 200w</p> <p>Ultrasonic peak power / frequency: 800w / 38kHz Accessory basket: BSK-12</p>
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All models have 3 year warranty

Complete with shelf for good water circulation UK manufactured

Accessory lids, racks and baskets available

ESL58244



Drying Cabinets

Fitted with toughened glass doors.

Extras: Can be fitted with an interior fan and dial thermostat control for faster and safer drying Ideal for keeping products dry or testing electronic assemblies

SKU	Capacity Litres	Shelves Supplied	External H x W x D (mm)	Internal H x W x D (mm)
ESL58255	113	2	545 x 730 x 360	460 x 728 x 341
ESL58256	226	3	652 x 928 x 449	567 x 926 x 430
ESL58257	300	3	965 x 583 x 610	865 x 581 x 600
ESL58258	540	3	1650 x 583 x 610	1550 x 581 x 600
ESL58259	1000	4	1650 x 1110 x 585	1550 x 1108 x 580
ESL58260	1300	4	1650 x 1110 x 765	1550 x 1108 x 757



Ovens Drying Moisture Extraction

The forced air extractor is a bolt-on unit and can be retro-fitted to our other ovens if required. (OPTIONAL EXTRA).

Standard Specifications: Temperature range 40°C to 250°C - Dial thermostat (HYD)
Stainless steel interior - Fan assisted circulation* - Output vent for extraction tubing
Overheat safety with warning indicator - Fan assisted extract unit

Options Include: Digital control and readout (DIG) - Maximum temperature limiter
Programmable timers and controllers - Adjustable shelf ladders - 110v supply

SKU	Litres	Shelf Position	No of Shelve	External (mm) HxWxD	Internal (mm) HxWxD	Max Load Height (mm)	Power watts
ESL58262/50	50	3	2	625 x 590 x 422	325 x 490 x 315	240	1000
ESL58262/52*	52	5	5	845 x 590 x 300	470 x 490 x 193	385	1000
ESL58262/75	75	3	2	625 x 590 x 567	333 x 490 x 460	248	1250
ESL58262/100	100	4	3	735 x 590 x 567	445 x 490 x 460	360	1250
ESL58262/120	120	4	3	735 x 590 x 659	445 x 490 x 552	360	1500
ESL58262/150	150	5	3	845 x 590 x 659	555 x 490 x 552	470	1500
ESL58262/180	180	6	4	957 x 590 x 659	667 x 490 x 552	582	1750
ESL58262/210	210	6	4	957 x 590 x 749	667 x 490 x 642	582	2000
ESL58262/240	240	8	4	1178 x 590 x 659	888 x 490 x 552	803	2250
ESL58262/280	280	6	4	941 x 750 x 769	651 x 650 x 662	566	2250
ESL58262/350	350	7	4	1104 x 750 x 769	814 x 650 x 662	729	2500



Ovens Incubators Dual Purpose

Manufactured with economy and a dual function in mind. These units are ideally suited to laboratories requiring an incubator and an oven in one convenient cabinet. These can be used as a general purpose incubator, yet at the flick of a switch can be used as either a 250° Coven or sterilizer making it the obvious cost-effective solution for many laboratories.

SKU	Litres	Shelve & Position	External mm H x W x D	Internal (mm) H x W x D	Max Load Height (mm)	Power watts
ESL58265/30	30	2/3	570 x 415 x 422	305 X 315 X 315	220	700
ESL58265/40	40	2/3	670 x 415 x 422	404 X 315 X 315	320	700
ESL58265/50	50	2/3	615 x 590 x 422	325 X 490 X 315	240	1000
ESL58265/75	75	2/3	623 x 590 x 567	333 X 490 X 460	248	1000
ESL58265/100	100	3/4	735 x 590 x 567	445 X 490 X 460	360	1000
ESL58265/120	120	3/4	735 x 590 x 659	445 X 490 X 552	360	1500
ESL58265/150	150	3/5	845 x 590 x 659	555 X 490 X 552	470	1500
ESL58265/180	180	4/6	957 x 590 x 659	667 X 490 X 552	582	1500
ESL58265/210	210	4/6	957 x 590 x 749	667 X 490 X 642	582	2000
ESL58265/240	240	4/8	1178 x 590 x 659	888 X 490 X 552	803	2000
ESL58265/280	280	4/6	941 x 750 x 769	651 X 650 X 662	566	2000
ESL58265/350	350	4/7	1104 x 750 x 769	814 X 650 X 662	729	2500



Standard voltage 230v, 50/60Hz Other voltages to order Larger models available
As part of our policy of continuous product improvement, the specifications are subject to change without notice.



Oven General Purpose

Suit most laboratory applications including drying, heating and general use.

Temperature Range: 40 C to 250 °C

Fluctuation: typically /-1 ° c

Exterior: Easy clean powder coated body

Interior: Aluminium clad steel chamber as standard (Stainless steel also available)

Controls: Calibrated dial thermostat

Safety: Independent overheat safety thermostat

Warranty: Full UK 1 year parts labour Circulation:

Internal forced air.

CE compliant.



ESL58268	Capacity : 10 LTR	Shelf positions:1, No. Of shelves: 1, External dimension (HxWxD): 415x375x350mm, Internal dimension (HxWxD): 150x275x243mm, Max load height: 105mm, Power: 350watts
ESL58269	Capacity : 20 LTR	Shelf positions: 2, No. Of shelves: 2, External dimension (HxWxD): 540x375x382mm, Internal dimension (HxWxD): 275x275x275mm, Max load height: 190mm, Power: 500 watts
ESL58270	Capacity : 30 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 570x415x422mm, Internal dimension (HxWxD): 305x315x315mm, Max load height: 220mm, Power: 750 watts
ESL58271	Capacity : 40 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 670x415x422, Internal dimension (HxWxD): 404x315x315, Max load height: 320mm, Power: 1000 watts
ESL58272	Capacity : 50 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 625x590x422 mm, Internal dimension (HxWxD): 325x490x315 mm, Max load height: 240mm, Power: 1000 watts
ESL58273	Capacity : 75 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 625 x 590 x 567mm, Internal dimension (HxWxD): 333x490x460mm, Max load height: 248mm, Power: 1250watts
ESL58274	Capacity : 100 LTR	Shelf positions: 4, No. Of shelves: 3, External dimension (HxWxD): 735x590x567mm, Internal dimension (HxWxD): 445x490x460mm, Max load height: 360mm, Power: 1250watts
ESL58275	Capacity : 120 LTR	Shelf positions: 4, No. Of shelves: 3 , External dimension (HxWxD): 735x560x659mm, Internal dimension (HxWxD): 445x490x552mm, Max load height: 360mm, Power: 1500watts
ESL58276	Capacity : 150 LT R	Shelf positions: 4, No. Of shelves: 3, Power: 1500watts



Vacuum Oven Models:

ES-1202V5

Features

- Uses for drying moisture, condensing
- Dearing, solvent removal.
- Glass door in front, showing indoor.
- Digital PID Controller.
- Auto Tuning.
- Reliable safety device.
- Simple-to-use.
- Connects nitrogen gas with Purge Valve (Option).
- 10step Programmable Controller (Option).

Model	ES-1202V5	ES-1202V6
Dimension (IN)	300 x 300 x 300(H) mm	400 x 400 x 400(H) mm
Dimension (OUT)	500 x 450 x 450(H) mm	600 x 550 x 550(H) mm
Capacity	27 Liter	64 Liter
Power	220V, 3.2A, 60Hz	220V, 4A, 60HZ

Specification

Temp. Range	Ambient +5°C to 200°C
Temp. Controller	Digital P.I.D. controller
PID Setting	Auto Tuning.
Display	LED display
Material (IN)	Stainless steel
Material (OUT)	Steel plate with powder coating
Valve	Vacuum valve, Purge valve
Vacuum gauge	Mechanical type
Door	Silicone packing door with Large window
Shelves	AL material, 2EA
Safety device	Exclusive over temp. protector, Power Breaker

Option





Incubators General Purpose

Suit most laboratory applications including drying, curing, and general use.
 Temperature Range : Ambient 10 C to 100 ° C
 Fluctuation: typically /-0.75 ° C
 Exterior: Easy clean powder coated body
 Interior: Aluminium clad steel chamber as standard (Stainless steel also available) Controls:
 Calibrated dial thermostat
 Safety: Independent overheat safety thermostat Warranty :
 Full UK 1 year parts & labour
 CE compliant.

ESL58295	Capacity : 10 LTR	Shelf positions: 1, No. Of shelves: 1, External dimension (HxWxD): 415x375x350mm, Internal dimension(HxWxD): 150x275x243mm, Max load height: 105mm, Power: 250watts
ESL58296	Capacity : 20 LTR	Shelf positions: 2, No. Of shelves: 2, External dimension (HxWxD): 540x375x382mm, Internal dimension (HxWxD): 275x275x275mm, Max load height: 190mm, Power: 350watts
ESL58297	Capacity : 30 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 570x415x422mm, Internal dimension (HxWxD): 305x315x315mm, Max load height: 220mm, Power: 500 watts
ESL58298	Capacity : 40 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 670x415x422mm, Internal dimension (HxWxD): 404x315x315mm, Max load height: 320mm, Power: 500 watts
ESL58299	Capacity : 50 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 615x590x422mm, Internal dimension (HxWxD): 325x490x315mm, Max load height: 240mm, Power: 500 watts
ESL58300	Capacity : 75 LTR	Shelf positions: 3, No. Of shelves: 2, External dimension (HxWxD): 623x590x567mm, Internal dimension (HxWxD): 333x490x460mm, Max load height: 248mm, Power: 750 watts
ESL58301	Capacity : 100 LTR	Shelf positions: 4, No. Of shelves: 3, External dimension (HxWxD): 735x590x567mm, Internal dimension (HxWxD): 445x490x460mm, Max load height: 360mm, Power: 750 watts
ESL58302	Capacity : 120 LTR	Shelf positions: 4 , No of shelves: 3, External Dimension (HxWxD): 735x590x659mm, Internal Dimension (HxWxD): 445x490x552mm, Max load height: 360mm, Power: 1500 watts
ESL58303	Capacity : 150 LT R	Shelf positions: 4, No of shelves: 3, Max load height: 360mm, Power: 1500 watts,

Specifications :

Heating	Gravity Convection (ESL-10T) 10 Ltr. Forced Convection (ESL-30T) 30 Ltr
Temp. Range	ambient +5 °C -50 °C
Accuracy	+/- 0.2 °C at 37.0 °C (ESL-10T)
Uniformity	+/-0.5 °C at 37.0 °C (ESL-10T)
Control	Microprocessor PID Control Auto START/STOP Timer
Sensor	Class A Pt-100 & Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off
Material	Body: Epoxy Powder Coated Steel Chamber: Stainless Steel 304 Inner Glass Door (ESL-30T only) Including PVC Coated Wire Shelf
Electric	220± 10% VAC 50/60Hz 1-Phase
Control Accuracy	±0.1 °C Digital PID Controller with automatic START/STOP timer max. 99min 59sec / 99hr 59min / 99 day 23hr Temperature calibration, auto-tuning function Class A Pt-100 Ω sensor

Plug config.



Timer On / Off



Heated amb.+5 °C - 50 °C



Constant Temperature Controller

Incubator Compact ESL-10T / ESL-30T

1-Series Compact Economic Incubator is suitable for personal, small food laboratory or HACCP Industry doing daily incubation of bacterial screening with Petri-Dish or Petri-Film.



General Incubator

Models:

ESL701GI-ESL702GI-ESL703GI
ESL705GI-ESL706GI-ESL707GI

NEW



Features

- Digital PID Controller
- Auto tuning function
- Safety devices
- Inner glass door to reduce Temp. change.
- Easy Temp. setting methods.

MODEL	ESL-701-GI	ESL-702-GI	ESL-703GI	ESL-705GI	ESL-706GI	ESL-707GI
Capacity	49 Liter	91 Liter	150 Liter	250 Liter	91 Liter X 2	91 Liter X 4
Dimension (In)	350 x 400 x 350	450 x 450 x 450	500 x 500 x 600	500 x 500 x 1000	(450 x 450 x 450) x 2	(450 x 450 x 450) x 4
(WxDxH) (mm)	(Out) 500 x 590 x 720	600 x 640 x 820	650 x 690 x 970	655 x 690 x 1350	610 x 740 x 1480	1220 x 740 x 1480
Heater Capacity	300W	300W	500W	500W	300W x 2	300W x 4
Shelves	2EA	2EA	3EA	3EA	4EA	8EA
Temperature Range	Ambient +5°C to 60°C					
Accuracy	+/- 0.1°C					
Temperature control	Digital PID Controller					
Timer	99hr 59Min					
Thermocouple	PT 1000 Ω					
Material (In)	Stainless steel					
(Out)	Steel plate with powder coating					
Inner door	Safety glass of thickness 5mm					
Shelves	Adjustable Type ABS Coating					
Safety Device	Over temperature, Current protection, Sensor error detection..					
Power	220V, 50/60Hz					



▲ 7" Touch Screen



CO2 Incubator / CO2, O2 Incubator ESL-9170CT/9170GCT

Main Control	Touch Screen Controller
Display	7" Color LCD
Temperature Range	RT +5°C to 50°C, ±0.1°C at 37°C
CO2 Range	0 to 20%, ±0.1% at 5%
CO2 Sensor	Dual-Beam Non Dispersive Infra-red Sensor
Humidification	Up to 96% RH at 37°C
Dimension (in)	510(W) × 480 (D) × 705(H)mm
(out)	605(W) × 610(D) × 995(H)mm
Capacity	173 Liter
Water Jacket Volume	34 Liter
Materials (in)	Copper-blended Stainless Steel (SUS 304)
(out)	Steel Plate with Powder Coating
Door	Double, Silicone Magnetic Packing Door
Inner Door	Safety Glass Door with U-groove Packing
Door Heater Shelves	Silicone Heater, Independent Control
Shelves	3EA, Copper-blended Stainless Steel
Safety Device	Over Temp. Protector, Gas Monitor Alarm, Water Level Monitor, Power Breaker
Utility	Sample Port, Access Hole, Drain Port, HEFA Filtre Unit, Flow Meter
Net Weight	98kg
Power	220V, 5A
CO2/O2 Incubator	ESL-9170GCT
O2 Range	0.1 to 20.9%, ± 0.1% at 5%
O2 Sensor	Industrial Oxygen Sensor
Cooling System	ESL-9170CT-R (Option)
Dimension (out)	605(W) × 610(D) × 1240(H)mm
Temperature Range	20°C to 50°C, ±0.1°C

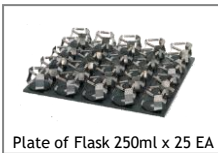


NEW



Plate of Flask

100ml Flask	.....	36 A
250ml Flask	.....	25 A
500ml Flask	.....	16 A
1000ml Flask	.....	9 EA
2000ml Flask	.....	4 EA
Spring Rack	.....	450 x 450mm



**Shaking Incubator
Model :
ESL8480SF - ESL8480S**

Features

- Noiseless & Brushless DC Motor Durable & Beltless Drum type
- Stable operation in low speed of 10RPM Digital PID Controller
- Reliable safety device Simple-to-use
- Compatible for various capacity of flask & tube Light Bank ("L" Model)

Model	ESL-8480SF	ESL-8480S
Temp. Range	15C to 60°C	Ambient +5°C to 60°C
Weight	81Kg	66Kg
Power	220V, 4.5A, 60Hz	220V, 1.8A, 60Hz
Temp. Controller	Digital P.I.D. controller	
Speed Range	10-350 RPM	
Display	LED Display	
Drive system	Beltless direct drive	
Motor	Brushless D.C.Motor K-type	
Circulation Fan	3.5" convection fan x 2EA	
Dimension	(IN)	510 x 530 x 400(H)mm
	(OUT)	515 x 730 x 720(H)mm
Lid	Acrylic Blue	
Safety Device	Over temp.Protector, Door detector	
Standard plate	250ml x 25EA	
Light Bank Model	Model ESL-8480SFL	
Light Bank	40W CL x 1 Unit	
Light Control	24Hr. Photoperiod program	

**Shaking Incubator
ESL-8480SR**

Less Gas-Consuming & Space-saving compact INCUBATOR

Features

- Noiseless & Brushless DC Motor Durable & Beltless Drum type
- Stable operation in low speed of 10RPM Reliable safety device
- Simple-to-use
- Compatible for various capacity of flask & tube Light Bank
- (ESL-8480SR Model)

Light Bank Model

Model	VS-8480 SR-L
Light Bank	Compact FL 36W x 3 Unit
Light Control	24Hr. Photoperiod program

Plate of Flask

100ml Flask	.....	60 A
250ml Flask	.....	40 A
500ml Flask	.....	24 A
1000ml Flask	.....	15 EA
2000ml Flask	.....	8 EA
Spring Rack	.....	760 x 470 mm



NEW



Shaking Incubator ESL-8480SR

Temp. Range	10° C to 60° C	
Temp. Controller	Digital P.I.D. controller	
Speed Range	10-350 RPM	
Display	LED Display	
Drive system	Beltless direct drive	
Motor	Brushless D.C.Motor K-type	
Circulation Fan	5" convection fan x 2EA	
Dimension	(IN)	830 x 540 x 500(H)mm
	(OUT)	1060 x 725 x 895(H)mm
Lid	Silicone Packing & Shock-absorber	
Safety Device	Over temp. Protector, Door detector	
Weight	137.5 Kg	
Power	220V, 6A, 1.2 Kw, 60Hz	
Standard plate	250ml x 40EA	
Certification	ISO 9001	



Anaerobic Incubator

ESI-A1 Series

- High-precision microcomputer control system to display accurate temperature inside the incubator ESI-A10
- Siemens PLC for High-performance ESI-A11
- High-precision temperature sensor and oxygen sensor to ensure accuracy ESI-A11
- High-precision temperature control module and analog module to ensure stability ESI-A11
- UV sterilizer for effective de-contamination
- Solenoid valve switch control to adjust and input essential gas
- Cultivation and operation chamber made of stainless steel
- Impact-resistant front glass window for easier observation
- Deoxidization catalyst in operation room
- Double door for cultivation chamber to add more petri plates

NEW



- Caster wheels for easier transport
- Latex gloves, Leakage protection, Over-heating alarm for user safety
- LCD screen to view parameter and button press keypad to pre-set values ESI-A10
- LCD screen to view parameter and touch screen control panel ESI-A11
- 2 shelves and wheels for cultivation chamber
- Tube-light inside the operation chamber for better illumination
- Door handle provided for easier opening and closing
- Wires and pipes inside chamber are properly concealed for user safety
- Equipped with wax-melting disinfection device and inoculating rod sterilizer ESI-A11
- USB interface provided to transfer data ESI-A11
- Stores 6 months data ESI-A11

Labware

Anaerobic Incubator ESI-A10

Anaerobic Incubator ESI-A10 is a workstation especially designed to culture anaerobic micro-organisms for various studies. Features micro-computer control system, UV sterilizer, stainless steel chamber, latex gloves, tough front glass window, de-oxidization catalyst, leakage protection etc. to ensure anaerobic environment while working along with operator's safety. Within 5 min anaerobic environment is created in the cultivation chamber while it takes less than 1 hr. for the operation chamber. It is used in microbiology labs, oil industry, soil research etc.

Anaerobic Incubator ESI-A11

Anaerobic Incubator ESI-A11 is a workstation especially designed to culture anaerobic micro-organisms for various studies. Features Siemens Programmable Logic Controller, UV sterilizer, stainless steel chamber, latex gloves, tough front glass window, de-oxidization catalyst, leakage protection, USB interface etc. to ensure anaerobic environment while working along with operator's safety. Within 5 min anaerobic environment is created in the cultivation chamber while it takes less than 1 hr. for the operation chamber. It is used in microbiology labs, oil industry, soil research etc.

Applications

It is widely used to culture anaerobic micro-organism to perform various studies in soil research, pathology labs, oil industry etc.

Specifications

SKU	ESI-A10	ESI-A11
Control System	Microcomputer control system	Microprocessor control system + Siemens PLC
Display	LCD display with button-press keypad	LCD display with touch screen control panel
Time for creating anaerobic state in sample chamber	< 5 minutes	< 5 minutes
Time for creating anaerobic state in operation chamber	< 1hr	< 1hr
Anaerobic environment maintenance time	> 12hrs (when no supply of mixed gas)	> 12hrs (when no supply of mixed gas)
Temperature Range	RT+3 to 60°C	RT+3 to 60°C
Temperature Stability	< ±0.3°C	< ±0.3°C
Temperature Uniformity	< ±1°C	< ±1°C
Display Resolution	0.1°C	0.1°C
Timing Range	1 to 9999 min	1 to 9999 min
Power Rating	600 W	600 W
Power Supply	AC 220V, 50 Hz	AC 220 V, 50 Hz
Data Storage	No	Yes
Interface	---	USB
Interior Chamber Dimension (W×D×H)	300×190×290 mm	300×190×290 mm
Operation Chamber Dimension (W×D×H)	820×660×670 mm	820×660×670 mm
Exterior Dimension (W×D×H)	1260×730×1380 mm	1260×730×1380 mm
Package Dimension (W×D×H)	1390×920×1560 mm	1390×920×1560 mm
Net Weight	240 kg	240 kg
Gross Weight	320 kg	320 kg





Sterilizer Hot Air

Manufactured to conform with the strict requirements of hot air sterilization up to 250°C in life science laboratories.

Uses: Standard disinfection of instruments and applications is not always thorough enough in medicine and biological research. Often high temperature dry sterilization is the only acceptable method of biological cleansing.

Temperature range: 30 ° C to 250 ° C

Interior: Stainless steel with fan circulation

Timer : 120 minute mechanical run-back timer

Controls: PID digital and readout (DIG)

Safety: thermostat with warning indicator

500 C version is available for protein denaturation.

CE compliant.

ESL58324	Capacity : 50 LTR	No of shelves: 2, Shelf positions: 3, External Dimension (HxWxD): 625x590x422mm, Internal Dimension (HxWxD): 325x490x315mm, Max load height: 240mm, Power: 1000 watts.
ESL58325	Capacity : 75 LTR	No of shelves: 2, Shelf positions: 3, External Dimension (HxWxD): 625x590x567mm, Internal Dimension (HxWxD): 333x490x460mm, Max load height: 248mm, Power: 1000 watts.
ESL58326	Capacity : 100 LTR	No of shelves: 3, Shelf positions: 4, External Dimension (HxWxD): 735x590x567mm, Internal Dimension (HxWxD): 445x490x460mm, Max load height: 360mm, Power: 1000 watts
ESL58327	Capacity : 120 LTR	No of shelves: 3, Shelf positions: 4, External Dimension (HxWxD): 735x590x659mm, Internal Dimension (HxWxD): 445x490x552mm, Max load height: 360mm, Power: 1500 watts
ESL58328	Capacity : 150 LTR	No of shelves: 3, Shelf positions: 4, Power: 1500 watts

Model	ESL58478	ESL58479	ESL58480
Dimension (In)	535 x 620 x 430	620 x 710 x 520	620 x 1000 x 1290
(WXDXH) mm (Out)	D 260 x 460mm	350 x 510mm	1350 x 800mm
Capacity	25 Liter	50 Liter	80 Liter
Heater	2KW	2KW	2.5KW
Weight	48 kg	65kg	100kg
Tray Size	190 x 400 x 25mm	240 x 480 x 30mm	240 x 770 x 30mm
Tray Material	Aluminum		
Reservoir capacity	4.5 Liter	4.5 Liter	8 Liter
Klaterial (In)	Stainless steel	Stainless steel	
(Out)	Steel plate with powder coating		
Safety Device	Over temp. protector, Safety Valve		
Temp. Range	121 ° C		
Pressure Range	0-2.1kgf/ cm		
Strieber	Time 60 Min(Max)		
Control System	8 Bit Microprocessor		
Power	220V, 50/60Hz		



**Table Top Autoclave
ESL58478-ESL58479
ESL58480**

- Features**
- Full automation
 - LED Display Safety device
 - Self-test function
 - Exhaustive design's gasket



Autoclave Media

Electrically heated, 12 litre capacity bench top autoclave designed specifically for the safe and effective sterilization of media.

- Dual interlocking handles prevent the lid being removed until the vessel has reached a safe pressure and temperature.
- Fully CE marked to the Medical Devices Directive 93/42/EC
- Sterilizes at 121 ° C.
- Full one year warranty
- Maximum capacity liquids 500ml
- Made in the UK

Dimensions : Height: 420mm

ESL58481	12 Litre
ESL58482	9 Litre





Hot Plate Basic I (Electric Burner) 500 W ESL58416

Hot plate, electric, with variable stage less regulation of heat and overheat control , 500 W
Input supply voltage 230 V / 50 ... 60 Hz

Hot Plate ADV LCD

ESL58420

Specifications	ESL58420
Work plate Dimension [W x D]	254x254mm (10 inch)
Work plate material	Glass ceramic
Heating position	1
Heating temperature range	Room Temp.-500°C, increment 1°C
Temperature control accuracy	±1°C (<100°C)±1%(>100°C)
Safety temperature	540°C
Temperature,time display	LCD
Timer function	1min-99h59min
Temperature display accuracy	±0.1°C
External temperature sensor	PT1000(±0.2°C)
"Hot" warning	50°C
Protection class	IP21
Power	1400W
Heating output	1350W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	328x424x138mm
Weight	7.2kg
Permissible Ambient temperature and humidity	5-40°C, 80%RH

NEW



Electric Burner ESL58417

able to work without gas -Multiple possibilities for use (heating containers, manual heating of test tubes, complex setups...)

Efficient : Heats 100 mL of water from 30 to 100 °C in 2 minutes 30 seconds. - Maximum temperature of 700 °C. - Temperature control through integrated electronic regulator. - Power: 500 W. - Protective casing: Cold - Power supply: 230 V (2P+T). - Weight: 2.6 kg. - - Dimensions (L x W x H): 280 x 180 x 125 mm. - Rod length: 300 mm. - Standard cord length: 1.50m - Patented.

NEW



Features

- LCD screen shows temperature, Max. temperature up to 500°C
- 10-inch glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at ±0.2°C
- The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off
- Heating temperature: room temperature -500°C.
- Data connector : The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can be set.





Hot Plat Pro ESL58418

Specifications	ESL58418
Work Plate Dimensions [WnxsD]	140 X 14mm (6Inch)
Work plate material	Aluminum cover with ceramic coating
Heating position	1
Heating temperature range	Room temp. -380°C increment 1°C
Over heat Protection	420°C
Temperature, time display	LCD
Temperature display accuracy	±1°C
External temperature sensor	PT1000(±0.2°C)
Protection class	IP21
Power	510W
Heating output	500W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	180x320x108mm
Weight	2.2kg
Permissible Ambient temperature and humidity	5-40°C, 80%RH

Features

- Maximum heating temperature is 380 °C
- High resolution LCD displays actual temperature
- Aluminum ceramic coating work plate, allowing a immediate heat transfer
- External temperature control is possible with temperature sensor PT1000

Hot Plat ADV ESL58419



Specifications	ESL58419
Work plate Dimension [W x D]	184x184mm (7 inch)
Work plate material	Glass ceramic
Heating position	1
Heating temperature range	Room Temp. -550°C, increment 5°C
Control accuracy of work plate	±10°C
Safety temperature	580°C
Temperature display	LED
Temperature display accuracy	±1°C
External temperature sensor	PT1000 (accuracy±0.2°C)
Heating warning	50°C
Protection class	IP21
Power	1010W
Heating Power	1000W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	215x360x112mm
Weight	4.5kg
Permissible Ambient temperature and humidity	5-40°C,80%RH



Features

- LED screen display actual and accurate temperature
- Maximum temperature up to 550°C
- Separate safety circuits with safety temperature of 580°C
- External temperature control is possible by connecting temperature sensor (PT 1000) with an accuracy of ±0.2°C
- Work plate provides excellent chemical- resistant performance and most efficient heat transfer
- “HOT” warning flashes when the workplate temperature is above 50°C



Magnetic Stirrer Pro LCD ESL58431

- High resolution LCD displays actual stirring speed
- Brushless DC motor is maintenance free
- Aluminum covered ceramic coating, corrosion resistant and easy to clean
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H2O at 5L

Magnetic Stirrer Basic ESL58430

Magnetic Stirrer Advance ESL58432

- Speed range of 0-1500rpm
- Maximum stirring quantity of H2O up to 10L
- Ceramic work plate provides excellent corrosion resistance



Magnetic Stirrer Mini ESL58429

Suitable for stirring small size items, necessary for all kinds of labs, especially education and R&D institution. ,ABS plastic case, beautiful appearance, step-less speed regulation.

Range 0-2300 R/M(No Load)Max Stirring Capacity 1000m ,stirrer

Timing range 0-2300 rpm (empty load) ,

Max. Stirring content 1000ml

Face diameter Φ 120mm

Other technical parameters Power adapter DC6V

Exterior Dimension : and weight Φ 120x49mm/500g



Specifications	ESL58432	ESL58430	ESL58431
Work Plate Dimensions [WxD]	184 X 184mm (7 Inch)	Φ 135mm (5 Inch)	140 X 140mm (5.6 Inch)
Work plate material	Glass ceramic	Stainless steel cover with ceramic	Aluminum cover with ceramic coating
Motor type	Shaded pole motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1
Max. stirring quantity[H ₂ O]	10L	20L	5L
Max.magnetic bar[length]	80mm	80mm	40mm
Speed range	0-1500rpm	0-1500rpm	200-1500rpm
Speed display	Scale	Scale	LCD
Protection class	IP21	IP21	IP21
Motor input Power	15W	18W	2.4W
Motor output Power	1.5W	10W	1.8W
Power	30W	30W	10W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
Dimension[WxDxH]	215x360x112mm	160x280x85mm	320x180x108mm
Weight	3.8kg	2.8kg	2.2kg
Permissible Ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH



Multi Stirring Palte 10 Analoue ESL58435



Specifications	ESL58435
Work Plate Dimensions [WxHxD]	180 X 450 mm
Work plate material	Stainless steel with silicone coating
Motor type	Brushless DC motor
Stirring positions	10
Max. stirring quantity[H ₂ O]	0.4Lx10
Max.magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	Scale
Protection class	IP20
Motor input Power	12W
Motor output Power	4W
Power	20W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	622x205x65mm
Weight	3.2kg
Permissible Ambient temperature and humidity	5-40°C, 80%RH

Features

- Efficient, simple and safe stirring
- High performance and space-saving design to maximize the use of benchtop space and saving time by stirring multiple solutions
- Maintenance-free brushless DC motor
- Speed range 0-1100rpm
- Stainless steel work plate covered with silicone cushion, provides excellent performance of skid resistance



Skidresistance



Multiple position

Hot Plate Magnetic Stirrer Mini ESL58438

suitable for stirring small size items, necessary for all kinds of labs, especially education and R&D institution, Power adapter DC6V
Exterior dimension and weight Φ120×49mm/500g

Stepless speed regulation.

Constant power heating, no-load surface temperature 120 °C

A thermal protection device of 150 °C.

Range 0-2300 R/M(no load) Max

Stirring Capacity 1000mL.





Hot Plate Magnetic Stirrer Basic

ESL58439

Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H₂O is 20L
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at $\pm 0.2^\circ\text{C}$
- Work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- Wide variety of accessories available to choose



Hot Plate Magnetic Stirrer Pro

ESL58440

EduScience 380°C magnetic hotplate stirrers include all leading safety standards and is chemically-resistant with white ceramic work plate. They can be used in physical, chemical, analytical and biological laboratories.

Features

- Max. heating temperature is 380°C
- High resolution LCD displays actual temperature and speed.
- Brushless DC motor is maintenance free
- Aluminum cover with ceramic work plate, allows for immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- Digital temperature control with max. temperature at 380°C
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H₂O at 5L



Hot Plat Magnetic Stirrer PRO Round

ESL58440R

Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H₂O is 20L
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at $\pm 0.2^\circ\text{C}$
- Work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- Wide variety of accessories available to choose
- LCD Digital Display

Hotplate Magnetic Stirrer Digital LED 280C

ESL58443

Features

- Digital temperature control with maximum temperature up to 280°C
- Digital speed control with maximum speed up to 1500rpm
- Stainless steel with ceramic coating work plate provides high chemical resistant performance
- External temperature control is possible by connecting temperature sensor (PT1000) with an accuracy at $\pm 0.2^\circ\text{C}$
- LED display shows temperature and stirring speed
- "HOT" warning flashes if work plate temperature is above 50°C





Work plate Dimension [W x D]	Ø135mm (5 inch)	140x140mm (5.6 inch)	Ø135mm (5 inch)	Ø135mm (5 inch)
Work plate material	St. Steel cover with ceramic coating	Aluminum cover with ceramic coating	St. Steel cover with ceramic coating	Aluminum with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1	1
Max. stirring quantity, [H ₂ O]	20L	5L	3L	20L
Max. magnetic bar[length]	80mm	50mm	50mm	80mm
Speed range	0-1500rpm	200-1500rpm	200-1500rpm	15W
Speed display	Scale	LCD	LED	100-1500rpm
Temperature display	Scale	LCD	LED	LCD
Heating temperature range	Room Temp. -340°C	Room temp. +5°C - 380°C	Room Temp-280°C	LCD
Heating liquid temperature control accuracy	-	±20rpm	±1°C (<100°C)	Room temperature ~ 340°C, increment 1°C
Temperature control accuracy	-	-	±1% (>100°C)	±1°C(<100°C), ±1%(>100°C)
Overheating temperature protection	420°C	420°C	320°C	420°C
Temperature display accuracy	-	±0.1°C	±1°C	0.1°C
External temperature sensor	-	PT1000 (accuracy ±0.5°C)	PT1000 (accuracy ±0.5°C)	PT1000 (accuracy±0.2°C)
"Hot" warning	-	-	50°C	50°C
Data connector	-	-	-	RS232
Protection class	IP21	IP21	IP42	IP21
Timer function	-	-	-	1min-99h59min
Motor rating input	18W	2.4W	5W	18W
Motor rating output	10W	1.8W	3W	10W
Power	530W	510W	515W	720W
Heating output	500W	500W	500W	600W
Voltage, Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	160x280x100mm	320x180x108mm	150x260x100mm	260x280x100mm
Weight	2.8kg	2.2kg	1.8kg	2.8kg



Hot Plate & Magnetic Stirrer ADV LCD ESL58444

Features

- Large volume: Up to 30L of liquid on 10-inch hot plate with powerful magnetic stirring
- Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- LCD display for precise monitoring of speed and temperature. External temperature control is possible by connecting the temperature sensor (PT1000) with an accuracy at $\pm 0.2^{\circ}\text{C}$
- Digital speed control of 100 - 1500rpm
- Max. heating plate temperature 500°C
- The "HOT" warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- Data connector: The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can be set.



Labware

Hot Plat Magnetic Stirrer LCD ADV ESL58441

Hot Plat Magnetic Stirrer LED ADV ESL58442

Features

- LCD displays actual temperature & speed
- Built-in PID controller ensures safe heating of the medium with overheating protection
- Maximum heating plate temperature up to 500°C
- Glass ceramic work plate is resistant to corrosion and is easy to clean
- External temperature control is possible by connecting temperature sensor (PT1000) with an accuracy of $\pm 0.2^{\circ}\text{C}$
- Digital speed control with maximum range of 100 - 1500rpm
- Outstanding brushless DC motor offers more stirring power
- Two knobs enable easy adjustment of speed and temperature
- "HOT" warning flashes when work plate temperature is above 50°C even when hotplate is turned off
- Remote function provides PC control and data transmission





Overheating protection



External sensor



Chemical resistance



Wide range of accessories



Specifications	ESL58444	ESL58441	ESL58442
Work plate Dimension [W x D]	254x254mm (10 inch)	184x184mm (7 inch)	184x184mm (7 inch)
Work plate material	Glass ceramic	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Brushless DC motor	Shaded pole motor
Stirring positions	1	1	1
Max. stirring quantity, [H ₂ O]	30L	20L	10L
Max. magnetic bar[length]	80mm	80mm	80mm
Speed range	100-1500rpm, resolution±1rpm	100-1500rpm, resolution±1rpm	0-1500rpm
Speed display	LCD	LCD	Scale
Temperature display	LCD	LCD	LED
Heating temperature range	Room Temp.-500°C, increment 1°C	Room Temp.-550°C, increment 1°C	Room Temp.-550°C, increment 5°C
Temperature control accuracy	±1°C(<100°C) ±1%(>100°C)	±1°C(<100°C) ±1%(>100°C)	±10°C
Overheating protection	540°C	580°C	580°C
Temperature display accuracy	±0.1°C	±0.1°C	±1°C
External temperature sensor	PT1000(accuracy ±0.2°C)	PT1000(accuracy ±0.2°C)	PT1000(accuracy ±0.2°C)
"Hot" warning	50°C	50°C	50°C
Data connector	SD card	RS232	-
Protection class	IP21	IP21	IP21
Motor rating input	18W	18W	15W
Motor rating output	10W	10W	1.5W
Power	1400W	1050W	1030W
Heating output	1350W	1000W	1000W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	328x424x138mm	215x360x112mm	215x360x112mm
Weight	7.2kg	5.3kg	4.5kg
Timer function	1min-99h59min	-	-
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH	5-40°C,80%RH



Hot Plat Magnetic Stirrer Multi ESL58446



Labware

Electronic speed control for constant speed even during changes in load

Maximum speed of 1100rpm

Max. temperature 120°C (liquid temp. 70C)

All 10 positions are controlled simultaneously

High magnetic adhesion, Skid resistance

Maintenance-free brushless DC motor

Stainless steel work plate, covered with silicone cushion, provides the excellent performance of heating uniformity and skid resistance

cTUVus approved for UL and CSA

2 YEAR WARRANTY

The MS-H-S10 10-place multi-position hotplate stirrer features a powerful rotary drive providing consistent sample conditions across each position, diameter up to 3 inches, volumes up to 400mL/beaker, 250mL/Erlenmeyer flask. heat only, stir only, or heat and stir simultaneously. The stirrer surface is stainless steel with a silicone anti-slip mat which is chemical resistant and easy-to-clean.

MS-H-S10 10-Position Analog Magnetic Hotplate Stirrer

Specifications:

Work plate dimension 180x450mm

Work plate material-Stainless steel with silicone

Motor type-Brushless DC motor

Motor rating input-12W

Motor rating output-4W

Power-490W

Heating output-470W

Voltage-100-120/200-240V 50/60Hz

Stirring positions-10

Max. stirring quantity-0.4Lx10

Max. magnetic bar[length] 40mm

Speed range 0-1100rpm

Speed display Scale

Temperature display Scale

Heating temperature range Room Temp.-120°C (liquid temperature 70°C)

Overheating protection 140°C

Protection Class IP42


















Dimension[WxDxH] 182x622x65mm

Weight 3.2kg










Permissible ambient temperature and humidity 5-40°C, 80%RH



Accessories:

Cat. No.	Photo	Description	ESL58444	ESL58441 & ESL58442	ESL58439	ESL58443	ESL58440
58400001		Blue carrying plate, use with color quarter pies			■	■	
58400065		Blue Fixed ring, use with color quarter pies			■	■	
58400002		Red quarter pie, 11 holes, 4mL reaction vessel, Ø15.2 mm, 20 mm depth	■	■	■	■	■
58400003		Purple quarter pie, 4 holes, 20 mL reaction vessel, Ø28mm, 24 mm depth	■	■	■	■	■
58400004		Blue quarter pie, 4 holes, 30 mL reaction vessel, Ø28mm, 30mm depth	■	■	■	■	■
58400005		Black quarter pie, 4 holes, 40 mL reaction vessel, Ø28mm, 43mm depth	■	■	■	■	■
58400048		Green quarter pie, 6 holes, 8 mL reaction vessel, Ø17.8 mm, 26mm depth	■	■	■	■	■
58400049		Golden quarter pie, 4 holes, 16 mL reaction vessel, Ø21.6 mm, 31.7 mm depth	■	■	■	■	■
58401006		Reaction block for 50mL round bottom flask (one flask capacity)			■	■	
58401007		Reaction block for 100mL round bottom flask (one flask capacity)			■	■	
58401008		Reaction block for 250mL round bottom flask (one flask capacity)			■	■	
58401009		Reaction block for 500mL round bottom flask (one flask capacity)			■	■	
58400019		F101 protective over, temperature resistance of 135°C			■	■	
58400016		PT10000-A, length of 230mm	■	■	■	■	■
58400136		PT1000-B, temperature sensor with glass coated, length of 230mm	■	■	■	■	■
58400017		Support clamp of PT1000 Vertical bar length : 45 cm, stents length : 25 cm, Stem diameter: 10 cm	■	■	■		
58400540		Support clamp of PT1000 Vertical bar length : 15 cm, stents length : 18 cm, Stem diameter: 10 cm				■	■



Cat.NO.	Photo	Name of stirrer bars	Size [mm]
58400693		Stirrer bar, cross	Ø 5 X 10
58400694		Stirrer bar, cross	Ø10 X 20
58400695		Stirrer bar, cross	Ø 9 X 25
58400696		Stirrer bar, cross	Ø 10 X 30
58400697		Stirrer bar, cross	Ø 11 X 38
58400698		Stirrer bar, cross	Ø 20 X 65
58400699		Stirrer bar, Triangular prism	Ø 14 X 25
58400700		Stirrer bar, Triangular prism	Ø 14 X 50
58400701		Stirrer bar, Triangular prism	Ø 9 X 35
58400702		Stirrer bar, Triangular prism	Ø 14 X 80
58400703		Stirrer bar, Gear shape	Ø 8 X 30
58400704		Stirrer bar, Gear shape	Ø 8 X 38
58400705		Stirrer bar, Gear shape	Ø 10 X 50
58400706		Stirrer bar, ellipse	Ø 10 X 20
58400707		Stirrer bar, ellipse	Ø 12 X 25
58400708		Stirrer bar, ellipse	Ø 11 X 30
58400709		Stirrer bar, ellipse	Ø 15 X 35
58400710		Stirrer bar, ellipse	Ø 20 X 40
58400711		Stirrer bar, ellipse	Ø 20 X 50
58400712	Stirrer bar, ellipse	Ø 22 X 70	
58400713		Stirrer bar, slide round	Ø 6 X 25
58400714		Stirrer bar, slide round	Ø 6 X 30
58400715		Stirrer bar, slide round	Ø 8 X 40
58400716		Stirrer bar, slide round	Ø 8 X 50
58400717		Stirrer bar, slide round	Ø 10 X 60
58400718		Stirrer bar, slide round	Ø 13 X 80
58400719	Stirrer bar, slide round	Ø 24 X 159	
58400720		Stirrer bar, Eight prism	Ø 8 X 20
58400721		Stirrer bar, Eight prism	Ø 10 X 30
58400722		Stirrer bar, Eight prism	Ø 8 X 40
58400723		Stirrer bar, Eight prism	Ø 8 X 50
58400724		Stirrer bar, Eight prism	Ø 9 X 90
58400725		Stirrer bar, round	Ø 27 X 57
58400726	Stirrer bar, round	Ø 27 X 108	
58400727	Stirrer bar, round	Ø 27 X 159	
58400728		Stirrer bar, round	Ø 6 X 10
58400729		Stirrer bar, round	Ø 8 X 15
58400730		Stirrer bar, round	Ø 8 X 20
58400731		Stirrer bar, round	Ø 8 X 25
58400732		Stirrer bar, round	Ø 6 X 30
58400733		Stirrer bar, round	Ø 8 X 40
58400734		Stirrer bar, round	Ø 8 X 50
58400735		Stirrer bar, round	Ø 8 X 65
58400736		Stirrer bar, round	Ø 13 X 8
58400737			Stirrer bar, crown	Ø 9 X 6
58400738		Stirrer bar remover	Length 30 cm
58400739		Stirrer bar remover	Length 25 cm

Cat.NO./Picture	ES1 Set of magnetic stirring bars	Cat.NO./Picture	ES 2 Set of magnetic stirring bars
 58400740	Stirrer bar, round, Ø6X10, 2	 58400741	Stirrer bar, round, Ø8X40, 2
	Stirrer bar, round, Ø6X15, 2		Stirrer bar, Eight prism, Ø8 X 40, 2
	Stirrer bar, round, Ø8X20, 2		Stirrer bar, Gear shape, Ø8 X 30, 2
	Stirrer bar, round, Ø8X25, 2		Stirrer bar, slide round, Ø8 X 40, 2
	Stirrer bar, round, Ø6X30, 2		Stirrer bar, ellipse, Ø20 X 40, 2
	Stirrer bar, round, Ø8X40, 2		Stirrer bar, cross, Ø9 X 25, 2
	Stirrer bar, round, Ø8X50, 2		Stirrer bar, crown, Ø9X6, 2
	Stirrer bar, round, Ø10X80, 2		Stirrer bar, round, Ø8X50, 2
	Stirrer bar, Triangular prism, Ø14 X 25, 2		Stirrer bar, Triangular prism, Ø9 X 35, 2
	Stirrer bar, Triangular prism, Ø14 X 50, 2		



Heating Mantle Controlled

Heating mantle Control Method : Proportional Voltage Control.

Based on the user's need, before using, the temperature should be controlled by using a separate thermometer. As the heated part (heated object) is hand-woven using fibre glass, fire is prevented by a built-in Thermal protector, which automatically shuts down, the product in case the inside temperature exceeds an appropriate temperature.

The product resumes normal operation when the inside temperature returns to normal. Thermal Insulation uses non-toxic asbestos-free ceramic wool (fiber glass).

There are two kinds of heated part shape like flask type and beaker type. Products installed temperature voltage controller.

Case Construction Steel, with chemically resistant powder coating Thermal Insulation Asbestos-free ceramic wool. (Fibre glass)
Heating Element Ni-chrome wire

Mantle Woven glass fibre mat

Heating Element Temperature Up to 450 °C, Maximum

Supply Voltage & Frequency AC 110-220V (or 220-230V), 50/60Hz

Features

- Non-Asbestos
- Heater section was hand woven in use of fiber glass.
- Body case was painted by resistant power coating
- Several kinds capacity
- There are two kinds of Flask & Beaker
- Heating Mantle & Stirrer Function (End ST Series)
- Speed control from 50 RPM to 1,200 RPM

Technical Description

- Heating material : Nichrome wire
- Heating Temperature : Up to 450°C(Max)
- Mantle material : Woven glass fiber mat



MODEL	Capacity	Flask Dia	Dimension	Wattage	Depth	Weight
ESL58455	100mL	63-66mm	Ø145x 140(H)mm	80	40	1.4kg
ESL58456	250mL	83-86mm	Ø145 x 140(H)mm	150	50	1.4kg
ESL58457	500mL	102-105mm	Ø190 X 165(H)mm	230	65	1.6kg
ESL58458	1000mL	130-133mm	Ø190 X 140(H)mm	330	75	2.2kg
ESL58459	2000mL	165-169mm	Ø190 140(H)mm	470	100	3.5kg
ESL58460	3000mL	184-187mm	Ø190 x 140(H)mm	570	105	4.3kg
ESL58461	5000mL	221-237mm	Ø 325 x 140(H)mm	850	131	6kg

MODEL	Capacity	Flask Dia	Dimension	Wattage	Depth	Weight
ESL58455ST	100mL	63-66mm	Ø145x 140(H)mm	80	40	1.4kg
ESL58456ST	250mL	83-86mm	Ø145 x 140(H)mm	140	50	1.4kg
ESL58457ST	500mL	102-105mm	Ø190 X 165(H)mm	240	65	1.6kg
ESL58458ST	1000mL	130-133mm	Ø190 X 140(H)mm	350	75	2.2kg
ESL58459ST	2000mL	165-169mm	Ø190 140(H)mm	450	100	3.5kg
ESL58460ST	3000mL	184-187mm	Ø190 x 140(H)mm	550	105	4.3kg
ESL58461	5000mL	221-237mm	Ø 325 x 140(H)mm	800	131	6kg



Cat.No.	Block types	Capacity	Diameter Depth
58400459		0.2mL×30	6.4×15mm
58400410		0.5mL×20	8.2×26.4mm
58400461		1.5mL×20	11×34.7mm
58400462		2mL×20	11×34.7mm
58400412		5/15mL×12	17×48mm
58400413		50mL×4	29.8×48mm
58400522		Two-in-one block, bead bath/water bath Adapt to S1	
58400523		Two-in-one block, bead bath/water bath Adapt to S2	
58400520		Aluminum beads	



Dry Bath (Block Heater) Digital LED

ESL58448 - ESL58449
ESL58450 - ESL58451

Features

- A wide range of temperature control up to 105°C/150°C.
- Overheating protection.
- Sound reminder function.
- External temperature sensor PT1000
- Block equipped with a lid for heat preservation and prevent pollution.
- Knob adjustment is easy to operate.



Specifications	ESL58448	ESL58449	ESL58450	ESL58451
Temperature range[° C]	Room temp+5-105	Room temp+5-105	Room temp+5-150	Room temp+5-150
Temperature setting range [° C]	25-105 25-90: ±0.3	25-105 25-90: ±0.3	25-150 25-90: ±0.3	25-150 25-90: ±0.3
Temperature control accuracy [° C]	90-105: ±0.6	90-105: ±0.6	90-150: ±0.6	90-150: ±0.6
Temperature uniformity@37°C [° C]	±0.2	±0.2	±0.2	±0.2
Power [w]	100	200	100	200
Time setting range	0-99h59min	0-99h59min	0-99h59min	0-99h59min
External sensor	Yes	Yes	Yes	Yes
Display	LED	LED	LED	LED
Power supply	110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz
External dimension[mm]	290x210x120	290x210x120	290x210x120	290x210x120
Weight[kg]	3.2	3.2	3.2	3.2
Operating temperature[° C]	+10-40	+10-40	+10-40	+10-40
Operating humidity [% RH]	<80	<80	<80	<80





Water Still 4 Ltr /Hour Borosil Basic

Features : Abundant Output. The still provides, 4 litres/hr of distilled water produced through a power input of 3KW by a chromium plated heater housed in a horizontal Glass Boiler Distilled output is cool ensured by a high efficiency condenser. Temperature of distillate 25°C - 40°C tested for ambient room temperature of 30° C. CE MARKED Dimensions (W x D x H) 50 cm x 15 cm x 45cm, 50 cm x 20 cm x 55cm Weight 6 kg. Approx., Power 220/240V, 50/60 Hz. Single phase. 3KW Heater. Water Supply Min. Flow rate 1 litre/min. Min. Pressure 3 p.s.i. (0.2 x 105 NM-2) Ideal for general Laboratory use- capable of producing pyrogen free water. Output 4 lit/hr Conductivity (using raw water) 3.0 - 4.0 µS/cm Conductivity (using treated water) 1.5 - 2.0 µS/cm PH 5.5 - 6.0 Distillate quality Pyrogen free Construction The stand is powder coated for long rust free Operation. Heater is a 3KW Chromium plated heater fitted with a thermostat, which shuts off automatically in case of water supply failure. The Boiler & Condenser are designed for high efficiency and provided with threading for easy plumbing of condenser. Boiler is provided with Teflon screw cork for insitu cleaning of the boiler. All plumbing connections to the equipment are made via Screw thread connectors Our water still has following additional safety features: Gate Valve : Prevents water wastage. Flow Switch : For Boiler Safety On/Off switch with water failure indicator lamp. Packing Info: packing **Dimensions** : 50 cm x 47 cm x 46 cm. Gross - **Weight** : 12.00 kgs.

ESL58354



Water Still 4 Ltr /Hour Metal Element

For a continuous supply of distilled water. The evaporation unit is Simply connected to an existing water supply system. Easy to operate and clean. Versions are available for 110 V/60 Hz and 230 V/50 Hz. All connections included. Without tubing. Technical data : Distilled water per hour : 4 litres Conductivity : 1,5 - 2,5 µS Connected load : 3 kW Tubing : 10 mm - Weight : 9 kg Dimensions (H x L x W) : 600 x 190 x 190 mm

ESL58353

Water Still 4 Ltr /Hour Borosil Basic Plus

Cap: 4 ltrs / hr, Single Safety, Pressure Temperature Switch with manual reset button- with UK PLUG and ON/OFF switch on the heater. CE Certified.



ESL58355



Water Still 4 Ltr /Hour Borosil Basic Pro

Cap: 4 ltrs / hr, Dual Safety, with two Pressure - Temperature Switch with manual reset button- with UK PLUG and ON/OFF switch on the heater. - CE Certified.

ESL58356

Automatic Water Still

The optimum performance AUTOMATIC WATER STILL, WATER DISTILLER & AUTOMATIC DOUBLE WATER STILL with its proven features & stylish design

This advanced Automatic Water Still, Water Distillers and Automatic Double Water Still produces and reserves distilled water on the important basis of high-effectiveness automated mechanism.

With its up-to-date design and practically large-sized storage reservoir, this superior equipment offers exceptional value for end-users.

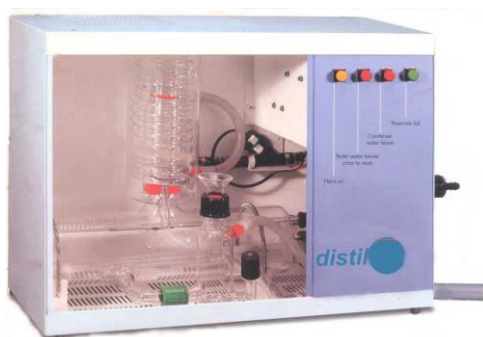
Individual Specification per Model



MODEL	Automatic Water Still (with the storage tank)			Water Distiller (without tank)		Automatic Double Water Still (with the storage tank)
	ESSWS-701	ESWS-702	ESWS-703	ESWD-501	ESWD-502	ESWS-701D
Product Water	4 Liters / hr	8 Liters / hr	12 Liters / hr	8 Liters / hr	4 Liters / hr	4 Liters / hr
Heater	3 KW	6 KW	3 KW	9 KW	6 KW	9 KW
Cooling Water	40 Liters	70 Liters	90 Liters	40 Liters	70 Liters	50-70 Liters
External Dimension (L X D X H) (mm)	750 X 395 X 640	750 X 395 X 640	750 X 395 X 640	355 X 385 X 656	520 X 520 X 730	750 X 670 X 670
Storage Tank	20 Liters	20 Liters	20 Liters			20 Liters
Supply Voltage & Frequency	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz (or 380V, 50/60Hz if customer request)
Material	Interior Construction: Stainless Steel (Boiler and Storage Tank), Exterior Construction: Steel Plate with Powder Coating					
Safety Device	Over Temperature Limit/Over Current Glass Fuse, Water Float Level Sensor/Water Supply Cut Off					

Design and Specifications can be changed without notice for quality improvement.

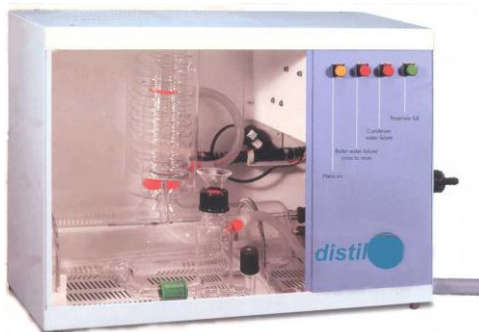




Water Still 4 Ltr /Hour Borosil Silica Heater

Single Water Distillation Unit with 3 KW Silica Heater, Cap: 4 ltrs / hr.
 Features :
 Gate Valve to prevent water wastage. Flow switch for boiler safety.
 Teflon drain cock for easy maintenance. High quality distillate.
 Power coated stand. Safety Built - in.
 Silica Heater
 Provided with a threaded Connection for easy, safe and quick assembly of Silica Heater.
 Easy Cleaning
 The Boiler is provided with a Teflon screw cock for easy cleaning of the boiler
 Screw Thread Connectors
 All plumbing connections are via screw thread connectors with silicon rubber 'o' rings. This facilitates easy fitting and removal of hose, without using excessive force, avoiding the danger of glassware breakage during assembly.
 With over Heat protection : Pressure Temperature Switch (PTS): Shuts off the unit when water level in the boiler falls below the heater.

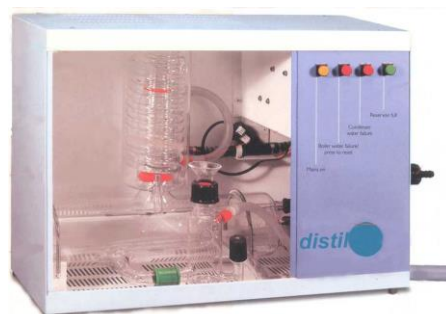
ESL58357



Water Still 4 Ltr /Hour Borosil Automatic Double Distillation

Water still borosilicate Glass, Cap: 4 ltr/hr, 4 ltr/hr, Double Distillation with automatic cabinet . it is ideal for procuring ultra high purity water for demanding applications in the laboratory / tissue culture work.
 it incorporates several safety devices for optimum use in hospitals and labs and has been designed to meet the International Safety Standards IEC 61010-01. Special features include Flow Control Safety, Gate Valve, Level Sensor as well as a Reservoir Level Sensor for automatic operation of the unit.

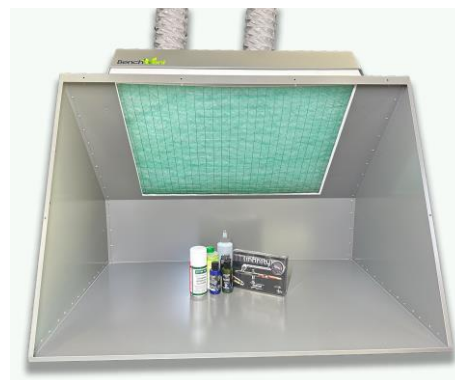
ESL58359



Water Still 4 Ltr /Hour Borosil Automatic Single Distillation

Water still borosilicate Glass, Cap: 4 ltr/hr, single distillation with automatic cabinet . it is ideal for procuring ultra high purity water for demanding applications in the laboratory / tissue culture work.
 it incorporates several safety devices for optimum use in hospitals and labs and has been designed to meet the International Safety Standards IEC 61010-01. Special features include Flow Control Safety, Gate Valve, Level Sensor as well as a Reservoir Level Sensor for automatic operation of the unit.

ESL58358



Ducted Spray Booth

This A1 hood mounted extraction cabinet captures, filters and expels within art, graphics, design technology areas to ensure that model makers, hobbyists, students or employees can operate in a safe working environment free of particulates.

- included :
- Filter unit with 2 x centrifugal fans
 - Hood Enclosure
 - 2 x 2mtrs Flexi-Ducts - 100mm diameter
 - 1 x Particulate filter
 - Power Lead
 - Data/Warranty Booklet
 - Dimensions : 950x680x615 (wxhxd) [internal] 955x750x740 (wxhxd) [overall] - Weight : 37 kg
 - Description
 - Steel construction finished in grey - fan/filter unit mounted onto hood enclosure - particulate filter - 2 x centrifugal blowers - external rotor motor type, brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filter. 2 Flexi-ducts each 2 metres x 100mm dia.
 - Air Volume at Free Air : 710m3/hr
 - Ave. Air Velocity at Filter Face : 0.60 m/sec
 - Ave. Air Velocity at Hood Face : 0.27 m/sec
 - Fan Motor Spec : 230V 50Hz 210W, 115V 60Hz 250W
 - Filters : Particulate Filter: IFA2

ESL58390





Bench Top Environment Cabinet Enclosure

Sealed environment enclosure for sensitive sample handling -NO Transfer Hatch, Supplied with Nitrite glove ports, 2 x 8mm push-fit gas connections and internal power socket. Green Base

ESL58371



Ducted Fume Extractor Cabinet 2

large ducted hood mounted local extraction cabinet designed specifically for laboratories. It is commonly used in dental & medical labs, pharmaceutical laboratories, research & development and school science laboratories.

Suitable to filter fumes, vapours and particulates from:

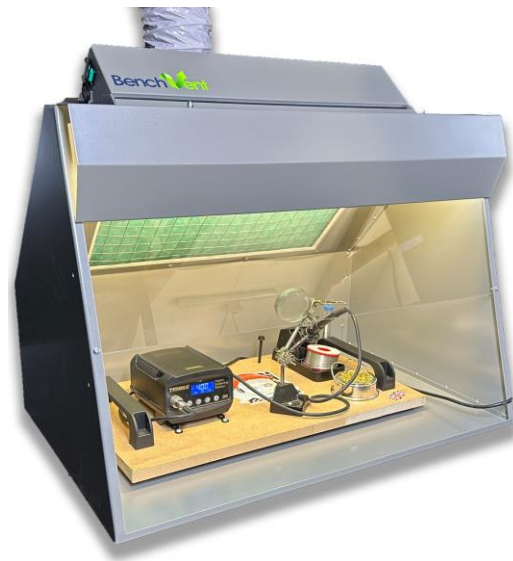
Spray Adhesives - Conformal coatings (thin polymer film usually used to coat circuit boards) - Paints - Monomers - Resin - Sealants - Solders - Light Grinding - Organic Solvents - Cleaners - Hazardous powders & particulates included :

Filter unit with 2 x centrifugal fans
Hood Enclosure - Hood Light - Polycarbonate hinged front panel
2 x 2mtrs flexi-duct - 100mm diameter - Particulate filter - Power Lead - Data/Warranty Booklet - Lifetime Guarantee
Dimensions : 950 x 640 x 615 (wxhxd) [internal] 955 x 750 x 800 (wxhxd) [overall] - 44kg weight

Description :
Steel construction finished in grey - fan/filter unit mounted onto hood enclosure complete with clear polycarbonate panel and hood lighting - particulate filter - 2 x centrifugal blowers, external rotor motor type, brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filter. Flexi-ducts; 2 meters x 100mm dia.

Air Volume at Free Air : 710 m3/hr
Ave. Air Velocity at Filter Face : 0.60 m/sec
Ave. Air Velocity at Hood Face : 0.6 m/sec
Filters : Standard Particle Filter - IFA2P. Upgraded Filters - EPA705P or HEPA705P
Noise Level LAeq dB(A) : 60 db(A)

ESL58386



Ducted Fume Extractor Cabinet

flagship hood mounted extract-to-atmosphere cabinet. It's been designed to capture, contain, filter and expel harmful contaminants within electronic design & rework, dental/medical labs, pharmaceutical labs and classroom environments.

included :
Filter unit with centrifugal fan
Hood Enclosure
Hood Light
Polycarbonate front panel
Particulate filter
2mtrs x 100mm dia flexi-duct
Power Lead
Data/Warranty Booklet
2mtrs flex-duct
Clear polycarbonate panel for protection
Hood lighting
Dimensions : 675x445 (wxh) [internal] 680x610x610 (wxhxd) [overall]
26kg Weight
Description
Steel construction finished in grey - fan/filter unit mounted onto hood enclosure complete with clear polycarbonate panel and hood lighting - particulate filter - centrifugal blower, external rotor motor type, brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filter. Flexi-duct 2 metres x 100mm dia.
Air Volume at Free Air : 355 m3/hr
Ave. Air Velocity at Filter Face : 0.60 m/sec
Ave. Air Velocity at Hood Face : 0.55 m/sec
Fan Motor Spec : 230V 50Hz 45W, 115V 60Hz 125W
Filters : Standard Particle Filter - IFA3P
Noise Level LAeq dB(A) : 58 db(A)ESL58382



Particle Filter Ifa2p (Pack Of 6)

ack of 6 particle filters IFA2. For general spray and dust particle capture

ESL58402





Spray Booth

it is general purpose hood mounted filtration cabinet and workstation for light aerosol spray and airbrush use for fume/vapour adsorption and dilution. It designed for use within art, graphics, design technology areas, crafts and modelling. It has a big working space and can accommodate up to an A1 size artwork, as well as prototypes, scale models, ceramics, PCBs and more.

It will extract fumes and filter particles created by: Aerosol Adhesives - Lacquers - Fixatives - Airbrush Sprays - Solders - Light Grinding - Key Features - A1 drawing boards can be placed into the hoods at an angle for efficient overspray capture.

The workstation hood also accommodates prototypes, models, ceramic parts, PCB's etc, placed onto the hood base to be sprayed, soldered, cleaned, glued, moulded, sanded etc.

Included : BV100H Filter unit with 2x axial fans - Hood Enclosure
1 x Particulate filter - 1 x Charcoal Impregnated fibre filter

Power Lead - Data/Warranty Booklet

Dimensions: 950x680x615 (wxhxd) [internal] 955x740x730 (wxhxd) [overall] - 35kg Weight

Description : Steel construction finished in grey - fan/filter unit mounted onto hood enclosure - particulate filter - carbon impregnated fibre filter - 2 x axial fans, external rotor motor type brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filters.

Air Volume at Free Air: 650 m3/hr - Ave. Air Velocity at Filter Face : 0.50 m/sec - Ave. Air Velocity at Hood Face: 0.3 m/sec - Fan Motor Spec : 230V, 50Hz, 90W, 115V 60Hz 84W - Filters : Particle Filter - IFA2, Charcoal Filter -CHA2, Filter Kit - FKA2 - Noise Level LAeq dB(A): 61 db(A)

ESL58409

High Efficiency Filter Cabinet

This is a high-efficiency filter cabinet with acrylic capture shield to contain and filter fumes and Particles within dental labs, electronic design, pharmaceutical labs, and classroom environments.

Included : Filter unit with centrifugal fan - Acrylic Spray Shield - 1 x Particulate filter
1 x Activated Carbon filter - Power Lead - Data/Warranty Booklet - Folding clear Polycarbonate plastic fume shield Carry handle - Sturdy steel construction

Dimensions : 500x385x530 (wxhxd) - 25kg Weight

Description : Fan/filter casing (steel construction finished in grey) - clear PETG folding plastic fume shield particulate (Intake Filter) - 3.5kg bonded carbon filter centrifugal blower, external rotor motor type brushless, UL, VDE and CSA approved sealed electrical wiring and switch, downstream of filters.

Air Volume at Free Air : 355m3/hr - Ave. Air Velocity at Filter Face: 0.55m/sec - Ave.

Air Velocity at Shield Face : 0.38m/sec - Filters : FA3 Particle Filter, AC200 Activated Carbon Filter. EPA Fine Particle filter available as optional extra and upgraded HEPA - Fan Motor Spec : 230V 50Hz 105W - Noise Level LAeq db(A) : 60

ESL58398



Hood Mounted Filtration Cabinet

it is large dual-speed hood mounted filtration cabinet with high-efficiency carbon filter. It is designed to offer local exhaust ventilation for large projects, and immediate operator protection when external venting isn't possible.

Applications: it is suitable to filter fumes, vapours and particulates from: Spray Adhesives

Conformal coatings (thin polymer film usually used to coat circuit boards) - Paints - Monomers - Resin

Sealants - Solders - Light Grinding - Organic Solvents - Cleaners

Other hazardous powders and particulates

Dimensions : 955x800x850mm (overall) 950x640x615 (wxhxd) [internal] 60kg Weight

Description: Steel construction finished in grey - fan/filter unit mounted onto hood enclosure complete

with clear polycarbonate panel and hood lighting - particulate (intake) filter - bonded carbon filter

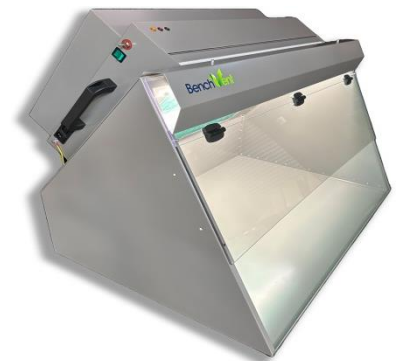
2 x centrifugal blowers, external rotor motor type brushless, UL, VDE and CSA approved - sealed electricals, downstream of filters. - Air Volume at Free Air : 710m3/hr - Ave.

Air Velocity at Filter Face : 0.57m/sec (0.40m/sec slow setting) - Ave. Air

Velocity at Hood Face : 0.50m/sec (0.39m/sec slow setting) - Fan Motor Spec : 230V, 50Hz, 210W, 115V 60Hz 220W

Filters : Particle Filter: IFA2 - Carbon Filter: AC100 - Optional EPA Filter: EPA705P or HEPA Filter HEPA705PESL58394

ESL58394



Water Swan Neck Tap Cold With Lever

Swan Neck Tap - Cold with Lever

ESL58550

Water Swan Neck Tap Hot

Swan Neck Tap - Hot

ESL58551



Gas Tap 2 Way 180 Degree

Gas tap double for bench mounting

ESL58559

Water Mixer Swan Neck Tap With Lever

Swan Neck Mixer Tap with Lever

ESL58549



Gas Tap 2 Way 90 Degree

Gas tap double for bench mounting

ESL58558



Vortex Mixers

Labwar



ES Vortex Mixers are ideal instruments for mixing liquid components in tubes, resuspension of cells, using an eccentric mechanism. They are widely used in biological and chemical analysis applications.

**Vortex Mixer Adjustable Speed
ESL58495**

**Vortex Mixer Fixed Speed
ESL58494**

Features:

- Touch operation or continuous mode
- Variable speed control from 0 to 2500rpm (ESL58495)
- Fixed Speed 2500rpm (ESL58494)
- Used for various mixing applications with optional adapters (ESL58495)
- Specially designed vacuum suction feet for body stability
- Robust aluminum-cast construction



Wide range of accessories



**Standard top
(Default)**

for $\varnothing 30\text{mm}$ tubes and small vessels

Cat. No. ES000034



Specifications	ESL58495 (Adjustable speed)	ESL58494 (Fixed speed)
Voltage	100-120V/200-	100-120V/200-
Power	60W	60W
Mixing motion	Orbital	Orbital
Orbital diameter	4mm	4mm
Motor type	Shaded pole motor	Shaded pole motor
Motor rating input	58W	58W
Motor rating output	10W	10W
Speed range	0-2500rpm	2500rpm
Speed display	Scale	-
Run type	Touch operation/ Continuous	Touch operation/ Continuous
Dimension[W×H×D]	127×130×160mm	127×130×160mm
Weight	3.5kg	3.5kg
Permissible ambient temperature	5-40°C	5-40°C
Permissible relative humidity	80%RH	80%RH
Protection class	IP21	IP21



VT1.3.1 tube adapter for 48 test tubes, Ø6mm (1mL)	Cat. No. 58490020 
VT1.3.2 tube adapter for 15 test tubes, Ø10mm (1.5-2mL)	Cat. No. 58490021 
VT1.3.3 tube adapter for 16 test tubes, Ø12mm (5mL)	Cat. No. 58490022 
VT1.3.4 tube adapter for 8 test tubes, Ø16mm (10mL)	Cat. No. 58490023 
VT1.3.5 tube adapter for 8 test tubes, Ø20mm (10-15mL)	Cat. No. 58490024 
VT1.3.6 Platform pad Ø99mm, multiple small tubes and vessels	Cat. No. 58490043 
VT1.3.7 vacuum chuck made of rubber	Cat. No. 58490158 

VT1.3.8 tube adapter for 24 holes test tubes, Ø 10mm (1.5-2mL)	Cat. No. 58490395 
VT1.3.9 PCR tube adapter for 56 test PCR tubes, strips of 8 , Ø5mm (0.1mL-0.5mL)	Cat. No. 58494185 
VT1.3.10 tube adapter for 4 holes test tubes, Ø28mm (50mL)	Cat. No. 58490855 
VT1.3.11 Tube adapter 12XØ9.8mm+12XØ6.6mm+12XØ5mm (1.5/2.0/0.5/0.2mL)	Cat. No. 58490862 
VT1.3.12 Large Platform Multi-Specimen Test Tube Adapter 44 holesXØ5mm+55 holesXØ6.6mm+30 holesXØ9.8mm (1.5/2.0/0.5/0.2mL)	Cat. No. 58490875 
VT1.2 Tube holding rod used with tube adapters	Cat. No. 5849044 
VT1.3 Universal top plate Ø 100mm	Cat. No. 58490505 
PS1.0 Microplate clamp	Cat. No. 58494342 

Application of accessories

Accessories	Adjustable speed model (0-2500rpm)	
	Touch mode (High speed area)	Continuous mode (Low speed area)
VT1.1	Y	Y
VT1.2 + VT1.3.1	Y	
VT1.2 + VT1.3.2	Y	
VT1.2 + VT1.3.3	Y	
VT1.2 + VT1.3.4	Y	
VT1.2 + VT1.3.5	Y	
VT1.3 + VT1.3.6	Y	
VT1.3 + VT1.3.1		Y
VT1.3 + VT1.3.2		Y
VT1.3 + VT1.3.3		Y
VT1.3 + VT1.3.4		Y
VT1.3 + VT1.3.5		Y





ES rotators give gentle but effective mixing of biological samples held in 1.5mL to 50mL tubes, and are used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics, etc.

Digital Rotator LCD ESL58490

Features

- Electronic adjustment of speed and time
- LCD display of speed and time
- Speed range from 10 to 70rpm
- Rolling action, gives gentle but effective mixing
- Adjustable mixing angle from 0 to 90°
- A wide variety of accessories are available

Economical Rotator ESL58489

Features

- Provides gentle and effective mixing of biological samples
- Adjustable speed range from 0 to 80rpm
- A wide variety of accessories are available



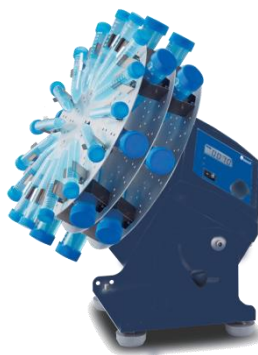
LCD display



Adjustable angle



Wide range of accessories



Specifications	ESL58490	ESL58489
Motor type	DC motor	DC motor
Tilt angle	0-90°	-
Speed range	10-70rpm	0-80rpm
Speed display	LCD	Scale
Timer display	LCD	Scale
Timer	1-1199min	-
Operation mode	Continuous / timer	Continuous
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	40W	20W
Dimension [D×W×H]	280×210×300mm	300×220×310mm
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Protection class	IP21	IP21



LCD Digital Tube Roller ESL58487

Features

- LCD displays the speed and time
- Speed range of 10-70rpm
- Six roller design for gentle rolling and easy to clean
- Continuous or timer operation

Tube Roller ESL58486

Features

- Speed range of 0-70rpm
- Six roller design for gentle rolling and easy to clean



ES tube rollers provide a gentle and highly efficient rolling motions, ideal for mixing blood samples, viscous substances and liquid-solid suspensions. Used in a variety of applications, such as the prevention of blood coagulation, immune precipitation, etc.

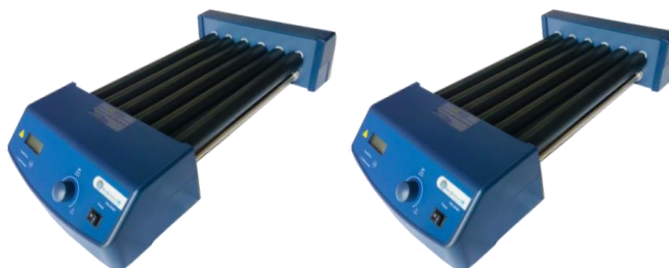
Labware



LCD display



Timer



Specifications	ESL58487	ESL58486
Amplitude	24mm	24mm
Motor type	DC motor	DC motor
Rocking motion	Rocking and rolling	Rocking and rolling
Max. load capacity	4kg	4kg
Number of rollers	6	6
Roller size[length]	280mm	280mm
Speed range	10 -70rpm	0-70rpm
Speed display	LCD	Scale
Timer	Yes	-
Timer display	LCD	-
Time setting range	1-1199min	-
Operation mode	Continuous/timer	Continuous
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	30W	25W
Dimension [D×W×H]	450×260×120mm	450×260×120mm
Weight	5.1kg	4.5kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Protection class	IP21	IP21





ESL58497/10



ESL58497/4



Orbital Motion

LCD Digital Orbital Shaker ESL58497/10 ESL58497/4

Features

- Independent LCD display for speed and time
- Compact footprint
- Provides smooth and uniform shaking
- Two options: 7.5 kg (O330) with platform and 2.5kg (O180) with platform speed range 100-500 rpm and 100-800 rpm
- Continuous or timer operation mode
- Maintenance- free brushless DC motor
- Over speed detection and protection
- Wide range of optional platform for flasks, and other popular vessels
- Remote function provides PC control and data transmission
- Free software for PC control & data logging

Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications. It can be used in

environmental chambers and CO2 incubators.

Specifications	ESL58497/10	ESL58497/4
Orbital diameter	10mm	4mm
Max. load capacity (with platform)	7.5kg	2.5kg
Motor type	Brushless DC motor	Brushless DC motor
Motor input power	28W	28W
Motor output power	15W	15W
Speed range	100-500rpm	100-800rpm
Speed display	LCD	LCD
Timer display	LCD	LCD
Time settings range	1min-99h59min	1min-99h59min
Voltage, Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	30W	30W
Weight	12kg	8.1kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[WxDxH]	370x420x100mm	300x340x100mm
Protection class	IP21	IP20
Data connector	RS232	RS232



Rocking Shaker Platform Fixed ESL58499

Features

- Double-screen display for time and speed respectively
- Compact footprint
- Provides smooth and uniform shaking
- Two options :
9.8kg (O330-M) and speed range 70-400rpm, 3.1kg (O180-S) and speed range 40-200rpm
- Continuous or timer operation mode
- Maintenance- free brushless DC motor
- Over speed detection and protection



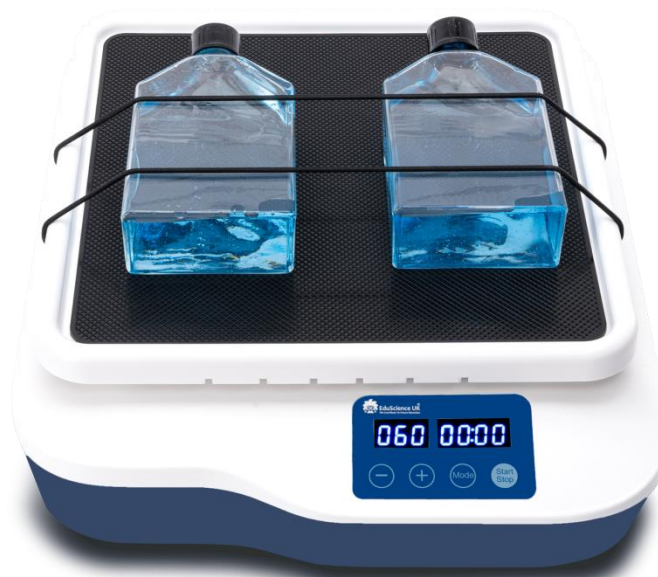
Labware

Applications

Orbital Shaker is ideal for applications like bacterial suspension, solubility studies, growth of bacteria and yeast, extraction procedures, washing procedures, diagnostics tests, hybridization, general mixing, staining & destaining, mixing, and extracting.

It is suitable for almost any vessel from micro-centrifuge tubes through petri dishes and microplates to conical flasks.

Rocking Shaker Platform LED ESL58498



Orbital Motion





**Basic Model
(fixed plate)**



**Multifunctional Model
(multiple plate are optional)**

Specifications	ESL58498	ESL58499
Orbital diameter	20mm	10mm
Max. load capacity (with platform)	2kg	3kg
Motor type	Brushless DC motor	Brushless DC motor
Motor input power	20W	20W
Motor output power	16W	15W
Speed range	40-200rpm	70-400rpm
Speed display	LED	LCD
Timer display	LED	LCD
Time settings range	1min-99h59min	1min-99h59min
Voltage,Frequency	100-240V,50/60Hz	100-240V,50/60Hz
Power	20W	25W
Weight	3.1kg	9.8kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	294×348×123mm	420×370×100mm
Protection class	IP21	IP21
Work plate Dimension [W x D]	268x268mm	335×335mm



LCD Digital Linear Shaker

ESL58500/10

Features

- **Efficient Mixing:** Employing a linear reciprocating shaking action ensures thorough and even mixing of samples within containers, enhancing experiment reliability and precision.
- **Versatile Capacity:** Offering two choices with different load capacities, suitable for experiments of various scales and sample handling needs, catering to diverse experimental requirements.
- **User-Friendly Operation:** The device is equipped with an independent LCD display, simultaneously presenting speed and time, facilitating an intuitive operation, allowing you to effortlessly oversee the experimental process.
- **Broad Speed Range:** It encompasses a wide speed range, enabling speed adjustment based on specific experimental demands, ensuring optimal outcomes.
- **Reliability:** Utilizing a maintenance-free brushless DC motor reduces equipment maintenance needs and extends its operational lifespan.
- **Safety Measures:** Featuring over-speed detection and protection functions, guaranteeing the equipment operates safely within prescribed parameters, mitigating potential issues.
- **Diverse Selection:** Providing multiple platform options, accommodating various container types and sizes, augmenting flexibility and diversity.

Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications.

It can be used in environmental chambers and CO₂ incubators.



Linear Motion



Labware

Specifications	ESL58500/10
Amplitude	10mm
Max. load capacity (with platform)	7.5kg
Motor type	Brushless DC motor
Motor input power	28W
Motor output power	15W
Speed range	100-350rpm
Speed display	LCD
Timer display	LCD
Time settings range	1min-99h59min
Voltage, Frequency	100-240V, 50/60Hz
Power	30W
Weight	13.5kg
Permissible ambient temperature and humidity	5-40°C, 80%RH
Dimension[W×D×H]	370×420×100mm
Protection class	IP21
Data connector	RS232





ESL58500/4

ESL58500/
20

Linear Motion

Digital Linear Shaker LCD ESL58500/4

Digital Linear Shaker LED ESL58500/20

Features

- Ensure uniform mixing to enhance experiment reliability and accuracy.
- Provide different load capacities suitable for experiments of varying scales and sample processing, meeting diverse experimental needs.
- Independent display screen, simultaneously showing speed and time, user-friendly operation for easy control of the experiment process.
- Offer a wide range of speed settings that can be adjusted according to specific experimental requirements to ensure optimal results.
- Maintenance-free brushless DC motor for extended lifespan.
- Equipped with safety speed protection features.
- Provide various platform options to accommodate a variety of container types and sizes, increasing flexibility and versatility (SK-L180-Pro) .

Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications. It can be used in environmental chambers and CO2 incubators.

Specifications	ESL58500/4	ESL58500/20
Amplitude	4mm	20mm
Max. load capacity(with platform)	2.5kg	2kg
Motor type	Brushless DC motor	Brushless DC motor
Speed range	100-350rpm	40-200rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage Frequency	100-240V, 50/60Hz	100-240V,50/60Hz
Power	30W	20W
Motor input power	28W	16W
Motor output power	15W	10W
Weight	8.1kg	3.4kg
Permissible ambient temperature and humidit	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[W×D×H]	300X340X100mm	294X348X130mm
Protection class	IP21	IP20
Data connector	RS232	-



Digital Rocking Shaker 9" LCD ESL58501/9

Digital Rocking Shaker 7" LED ESL58501/7

Features

- Rocking motion angle 9°(R330-Pro) and 7°(R1807-S)
- Two options :
10kg (R330-Pro)and speed range 10-70rpm, 2kg (R1807-S) and speed range 10-80rpm
- Double LCDs/LEDs for independent display of time and speed
- Continuous or timer operation mode
- Electronic time switching clock: 1min-99h59min
- Wide range of platforms for use with a variety of vessels(R330-Pro)
- Fixed work plate(R1807-S)
- Simple appearance, save operating space

Applications

Designed for time-dependent and low rpm sensitive shaking

applications such as ELISA washes, enzyme immunoassays, protein synthesis, hybridization staining/destaining gels, immune precipitation and Western blots, cell culture, pharmaceutical profiling, etc.



ESL58501/9



ESL58501/7



Rocking Motion

Specifications	ESL58501/9	ESL58501/7
Tilt angle	9°	7°
Max. load capacity(with platform)	10kg	2kg
Motor type	DC motor	DC motor
Motor input power	40W	20W
Motor output power	24W	16W
Speed range	10-70rpm	10-80rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage,Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	50W	20W
Weight	9kg	3.1kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	360×410×200mm	294×348×123mm
Protection class	IP21	IP21





ESL58496/9



ESL58496/10

Digital 3D Shaker LCD

ESL58496/9

ESL58496/10

Features

- Provide a gentle three-dimensional motion shaker at a fixed tilt angle
- Anti slip silicone disc surface, better anti slip effect, and better sample processing effect
- Adjustable rotational mixing speed
- Independent LCD/LED display of time and speed
- Incubator compatible
- Various platform accessories (D3309-Pro)

Applications

3D shaker used for uniform shaking mixing in flasks, culture flasks, petri dishes and tubes. Ideal for culturing a variety of cell cultures, DNA extractions, distributing of cells and gel staining & destaining of cells.
















Wide range of accessories



3D Motion











Specifications	ESL58496/9	ESL58496/10
Tilt angle	9°	10°
Max. load capacity(with platform)	5kg	3kg
Motor type	DC motor	Brushless DC motor
Motor input power	40W	16W
Motor output power	24W	10W
Speed range	10-70rpm	10-80rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage, Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	50W	20W
Weight	9kg	3.7kg
Permissible ambient temperature and humidit	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[W×D×H]	360×430×106mm	294X348X170mm
Protection class	IP21	IP20



Cat. No.	Description	ESL58497/10	ESL58500/10	ESL58501/9	ESL58496/9	ESL58499	ESL58497/4	ESL58500/4	ESL58500/20 Multifunctional models
 5840155	SK330.5, Dish platform with non-slip mat and fixed string (8pcs) Dimension[WxD]: 30x28.5cm	■	■	■	■				
 58402835	Silicone mattress for 16x5-15mL tubes, use with SK330.5	■	■	■	■				
 58402846	Silicone mattress for 6x 50mL tubes, use with SK330.5	■	■	■	■				
 58400185	SK180.4 Dish attachment with non-slip mat Dimension[WxD]: 24x21.5cm						■	■	■
 58400869	SK330.4 Dish platform with non-slip mat and fixed string(8 pcs), 34X34cm					■			
 58400859	SK330.6 Transparent shield, serologic test for syphilis, 41x39.5x8.3cm	■	■			■			
 58400860	SK180.5 transparent Cover for Syphilis Serum Test, 32x32x8.3cm						■	■	
 58402852	Silicone mattress for 10x 5-10mL tubes						■	■	■
 58402853	Silicone mattress for 4x 50mL tubes						■	■	■
 58400027	SK330.1, Universal attachment with 4 bars Size: 32x32cm Capacity for flask: 25mLx21pcs, 50mLx15pcs, 100mLx12pcs, 250mLx6pcs, 500x4pcs	■	■	■	■	■			
 58400040	SK330.3 Lengthways roller attachment, Mainly used for separation funnel oscillation extraction applications 500mL*3pcs 250mL*4pcs 100/125mL*4pcs 500mL*5pcs	■	■	■	■	■			
 58400025	SK180.1, Universal attachment with 3 bars Size: 25x24.5cm Capacity for flask: 25mLx10pcs, 50mLx8pcs, 100mLx6pcs, 250mLx4pcs, 500x2pcs						■	■	■
 58400038	SK180.3 Lengthways roller attachment, Mainly used for separation funnel oscillation extraction applications 500mL*2pcs 250mL*3pcs 100/125mL*3pcs 50mL*4pcs						■	■	■

Labware



Cat. No.	Description	ESL58497/10	ESL58500/10	ESL58501/9	ESL58496/9	ESL58499	ESL58497/4	ESL58500/4	ESL58500/20 <small>Multi functional models</small>
 58400036	Bar for SK330.1 universal attachment	■	■	■	■				
 58400037	Bar for SK180.1 universal attachment						■	■	■
 58400280	Connect sticks for double dishes shaker	■	■	■	■	■	■	■	■
 58400028	SK330.2, Fixing clip attachment Size: 32 x 32cm	■	■	■	■				
 58400026	SK180.2, Fixing clip attachment Size: 25 x 24cm						■	■	■
 58400029	Fixing clip for flask volume 25mL, used with SK330.2[9pcs] SK180.2[28pcs]	■	■	■	■		■	■	■
 58400030	Fixing clip for flask volume 50mL, used with SK330.2[9pcs] SK180.2[16pcs]	■	■	■	■		■	■	■
 58400031	Fixing clip for flask volume 100mL, used with SK330.2[9pcs] SK180.2 [16pcs]	■	■	■	■		■	■	■
 58400032	Fixing clip for flask volume 200/250mL, used with SK330.2[4pcs] SK180.2[9pcs]	■	■	■	■		■	■	■
 58400033	Fixing clip for flask volume 500mL, used with SK330.2[2pcs] SK180.2[9pcs]	■	■	■	■		■	■	■



Handheld Homogenizer ESL58464

Features

- Portable, lightweight with ergonomic design ideal for Manual operations
- Processing volumes from 0.1-50mL or 1-250mL
- Variable speed from 8,000 to 32,000 rpm
- 316L stainless steel shafts are fully autoclavable
- Interchangeable shafts for easy dismantling and cleaning

Applications

Designed for rapidly homogenize, emulsify, suspend and disrupt biological samples like tissue of animal, bacteria, yeast, plant samples, etc. in liquids. Ideal for samples from 0.1mL to 250mL depending on shaft chosen.



Labware

Specifications	ESL58464/5 - ESL58464/10
Speed range	8000-32000rpm
Max linear velocity	6.3m/sec or 14m/sec
Speed level	10 stage
Working volume [H2O]	0.1-50mL(Dispersing shaft ESL58464/5) 1-250mL(Dispersing shaft ESL58464/10)
Max. viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Noise Level	72 dB(A)
Protection class	IP20
Voltage, Frequency	110-120V/60Hz 220-240V/50-60Hz
Power	160W
Motor Type	AC carbon brush motor
Weight	0.54 kg
Dimension [WxDxH]	45mm x 55mm x 190mm

ESL58464/5

Cat. No. 58460543

Volume 0.1-50mL
Max. Circum. Speed 6.3m/sec
Material: 316L stainless steel
Application: small amounts of solid liquid mixed
Function : dispersing tool for solid/liquid media



ESL58464/10

Cat. No. 58460815

Volume 0.1-150mL
Max. Circum. Speed 10m/sec
Material: 316L stainless steel
Application: small amounts of solid liquid mixed
Function : dispersing tool for solid/liquid media



ESL58464/10

Cat. No. 58460544

Volume 0.1-250mL
Max. Circum. Speed 14m/sec
Material: 316L stainless steel
Application: small amounts of solid liquid mixed
Function : dispersing tool for solid/liquid media



High Shear Homogenizer ESL58465

The high shear homogenizer D500 is applicable to various tasks from sample preparation to formulation study. The motor drives the rotor to rotate at high speed, and the sample is homogenized or dispersed by the gap between the rotor and stator, usually in a short period of time.

Features

- High quality 316L stainless steel with corrosion and autoclave resistance
- Rotor with simple design can be dismounted, cleaned, and sterilized conveniently
- 6 speed levels
- Applicable for sample with viscosity up to 10000mPa·s
- Replaceable rotors and stators sharing the same shaft, cost-effective
- Automatic overload protection mechanism maximizes the working life of motor.
- Smooth motor start, stable acceleration without spillage risk

Applications

Widely applied for histocyte lysis, cell homogenization, emulsion, nanometer scale dispersion process in biology, pharmaceutical, genetic and pathology study, dairy product or fruit homogenization, polymerization reaction, production of fragrance, cosmetics, textile auxiliary, food, ink, paints, asphalt, fine chemicals, agricultural chemicals, and analysis in mineral exploration, environmental protection and energy resource exploration.

- Routine homogenization, emulsion, depolymerization, dispersion application
- Disperse substance to form suspension and emulsion
- Disperse pigment and resin
- Disperse animal or human tissue into various solution
- Facilitate the dissolve of solid substances
- Sample preparation for quality control test
- Animal or plant cell lysis
- Emulsion, cream cosmetics, and food formulation study
- Extraction of active pharmaceutical ingredient from pills and tablets

Specifications	ESL58465
Speed range	10000-30000rpm
Max linear velocity	22.7-36m/sec
Speed Level	6 stage
Working volume	10-40000mL
Max. viscosity	10000mPa·s
Material of dispersing shaft	SS 316L stainless steel, PTFE
Noise Level	79dB(A)
Protection class	IP20
Voltage, frequency	110-120V/60Hz, 220-240V/50-60Hz
Power	500W
Motor type	AC carbon brush motor
Dimension [WxDxH]	75x75x280mm
Weight	1.7kg
Permissible ambient temperature and humidity	0-40°C, 85%RH



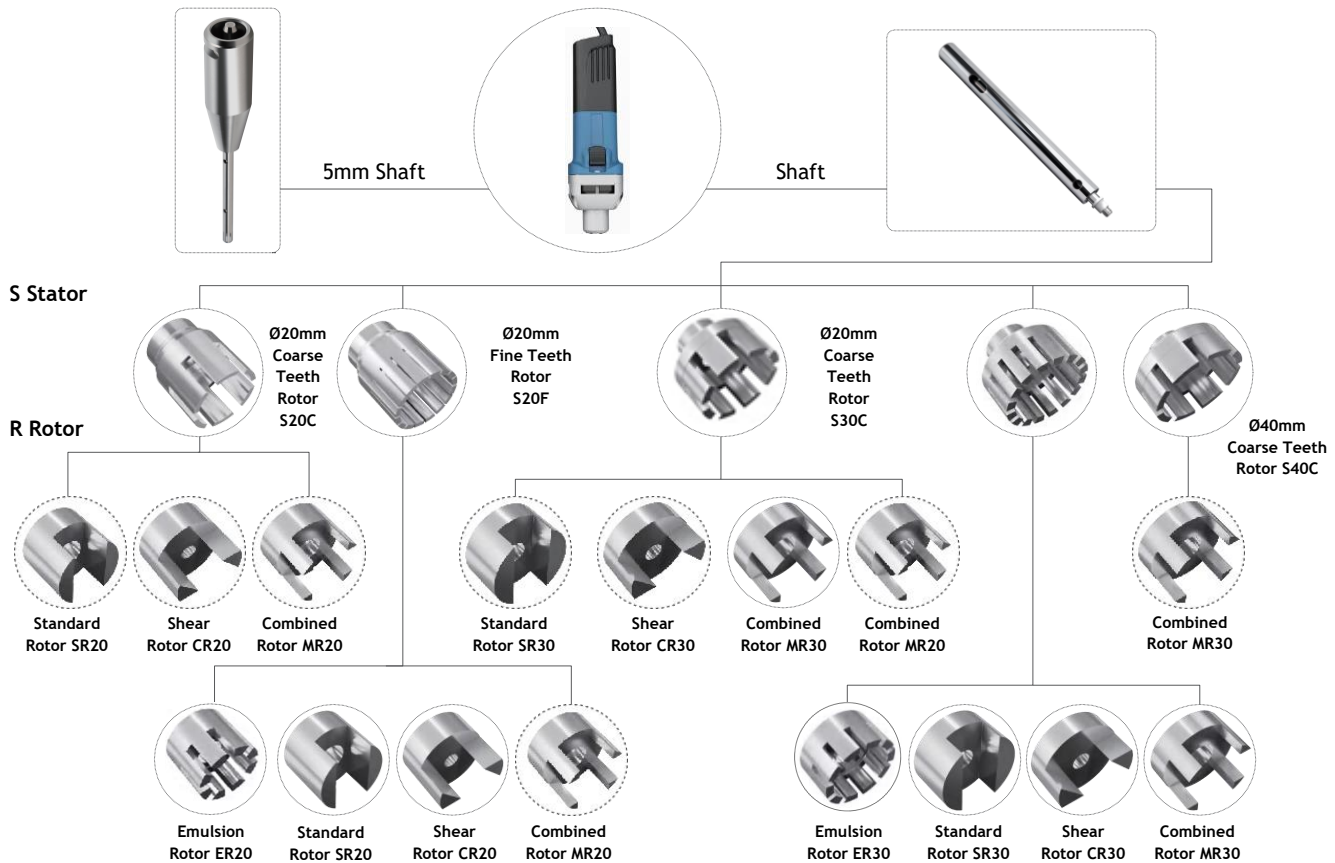
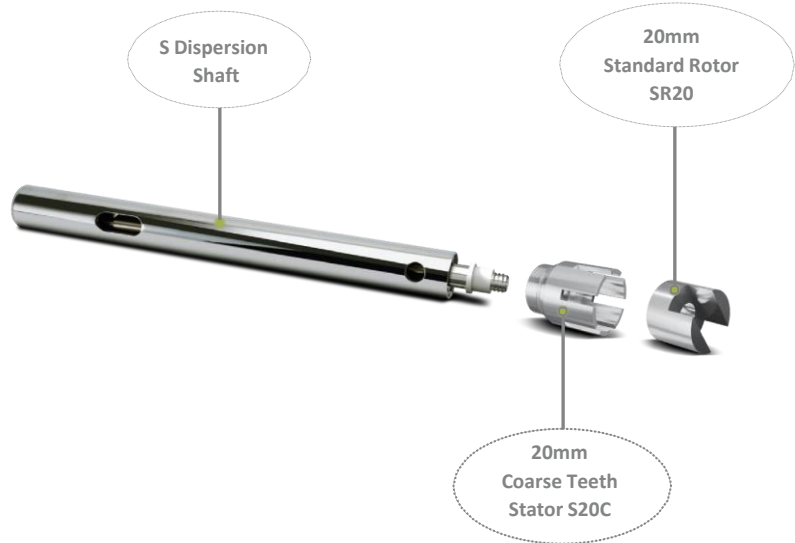
Dispersion Head Selection Guide

Material: All dispersion head components are made of high quality 316L stainless steel to ensure the mechanical performance while rotating at high speed of 30000rpm.

Bearing: Made of excellent material, the bearing is sturdy, durable and corrosion resistance. Its mechanical performance and chemical characteristics are stable.

Easy to clean: The dispersion head is designed to be easily dismantled and thus cleaned. The

components can be cleaned manually or automatically, and can be autoclaved. Even the precision components can be removed to clean.





ESL58465/1 Cat No.58461331

Solid and liquid dispersion
Volume 10-5000mL
Max. circum. Speed 22.7m/sec
General purpose
Emulsion granularity range 1-10 μ m
Suspension granularity range 10-50 μ m



ESL58465/2 Cat No. 58461332

Emulsion
Volume 10-5000mL
Max. circum. Speed 22.7m/sec
General purpose
Emulsion granularity range 1-10 μ m
Suspension granularity range 10-50 μ m



ESL58465/5 Cat No. 58460117

Small amounts of solid and liquid dispersion
Volume 1-50mL
Max. circum. Speed 5.8m/sec
Compatible with 5mm stator and 3.8mm rotor
Special design for 1-50mL tissue homogenization, mixing and suspension in Eppendorf tube, tube strip and centrifuge tubes for clinical and diagnostic application

Stator & Rotor		Purpose	Working Volume	Max. circum. Speed	Rotor Dia.	Stator Dia.	Min./Max.	Granularity (μ m)		Application
Combinations								mL	m/s		mm	mm	Immersion Depth	Suspension	Emulsion
58461331	SS20CSR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	P,CI,PC,SD
58460205 58460215	S20C CR20	Fiber	10-5000	23.5	15	20	40/170	10-50	1-10	SP,M,F,PT,TI
58460205 58460216	S20C MR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	CI,PI
58461332	SS20FER20	Emulsion	10-5000	23.5	15	20	40/170	10-50	1-10	SP,PI,PT,P
58460206 58460215	S20F CR20	Fiber	10-5000	23.5	15	20	40/170	10-50	1-10	SP,BT,M,F,PT,TI
58460206 58460216	S20F MR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	CI,C,PI,F,PT,PC
58460213 58460216	S30C MR20	As stirring paddle	250-20000	36.1	15	30	40/170	High speed mixing		CI,F,SP
58460213 58460208	S30C SR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	SP,M,F,PT,P
58460213 58460209	S30C CR30	Fiber	100-8000	36.1	23	30	40/170	5-25	1-5	SP,M,F,PT,P
58460213 58460229	S30C MR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	CI,PI
58460228 58460208	S30F SR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	SP,PI,PT,P
58460228 58460212	S30F ER30	Emulsion	100-8000	36.1	23	30	40/170	5-25	1-5	SP,PI,PT,P
58460228 58460229	S30F MR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	CI,C,P,F,DT,TI
58460214 58460229	S40C MR30	As stirring paddle	1000-40000	36.1	23	40	40/170	High speed mixing		CI,F,SP
58460117	SS5CSR5	Small amount solid-liquid mix	1-50	6.3	4	5	40/60	10-50	1-10	BT,M

Note:

BT: Biotech; F: Food; P: Pharmaceuticals; C: Cosmetics; M: Medicine Analysis; PC: Petroleum Chemistry; PT: Paper and Pulp Industry; SP: Sewage Treatment; CI: Ceramic Industry; CH: Chemical Industry; PI: Paints Industry; TI: Tobacco Industry The common combinations of rotor and stator are listed in the table above. Dispersion head can be mounted on the homogenizer main body and fixed on the holder with fixtures. All the components of dispersion head can be sterilized with all usual methods (including chemicals, autoclave, etc.)



Overhead

Appliances

Labware

LCD Digital Overhead Stirrer

ESL58466C

ESL58467C

ESL58468C

EDU Science Overhead Stirrers are competent for most demanding tasks with guaranteed safety and

performance. They are widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries, etc.



Specifications	ESL58466C	ESL58467C	ESL58468C
Max. stirring quantity[H ₂ O]	20 L	40 L	70 L
Speed range	50-2200rpm	50-2200rpm	50-1100rpm
Speed display accuracy	±3rpm	±3rpm	±10rpm
Time settings range	-	-	0-99h59min
Max. torque	40N·cm	60N·cm	300N·cm
Viscosity max.	10000mPa·s	50000mPa·s	100000mPa·s
Weight	2.8kg	2.8kg	3.2kg
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor
Voltage, Frequency	100-240V, 50/60 Hz	100-240V, 50/60 Hz	100-240V, 50/60 Hz
Speed display	LCD	LCD	LCD
Torque display	LCD	LCD	LCD
Overload protection display	LCD	LCD	LCD
Chuck clamp range diameter	0.5-10mm	0.5-10mm	0.5-10mm
Motor input/output power	60W/50W	120W/100W	180W/160W
Power	70W	130W	200W
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21	IP21
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH
Data interface	RS232	RS232	RS232



NEW**LED Overhead Stirrer****ESL58466****ESL58467****Features**

- High reliability and outstanding performance
- Wide range of speed from 50 to 2200rpm
- Brushless DC motor for long life, maintenance free and explosion proof
- LED screen for monitoring actual speed
- Safety circuits allow for safe stop function in anti-stall or overload conditions
- Large chuck diameter for many shaft types

Labware

**Set of Overhead Stirrer tools****Cat.No. 58460743**

Contains one vertical rod, six stirring blades Such as Propeller stirrer Paddle stirrer Centrifugal stirrer Flat-blade stirrer Radial-flow stirrer Anchor stirrer and Disassembling tool

Plate Stands

Universal Plate Stand
for ESL58466-ESL58467

Cat. No. 58460605

Dimension [W x D x H] :
20x31x78cm

Material: cast iron

Universal Plate Stand
(for OS20/40/70)

Cat. No.58460497

Dimension [W x D x H] :
3.5x46.3x78cm

















Material: cast iron

Specifications**ESL58466****ESL58467**

Specifications	ESL58466	ESL58467
Max. stirring quantity[H ₂ O]	20 L	40 L
Speed range	50-2200rpm	50-2200rpm
Max. torque	40N·cm	60N·cm
Viscosity max.	10000mPa·s	50000mPa·s
Motor type	Brushless DC motor	Brushless DC motor
Speed display	LED	LED
Overload protection display	LED	LED
Chuck range diameter	0.5-10mm	0.5-10mm
Motor input power	60W	120W
Motor output power	50W	100W
Power	70W	130W
Voltage,Frequency	100-240V, 50/60 Hz	100-240V, 50/60 Hz
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21
Weight	2.8kg	2.8kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH



ES Overhead Stirrer provides a variety of stirring tools, such as impellers, paddles and blades:

<p>Propeller stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 5 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed</p> 	<p>Cat. No. 58460071</p>	<p>Paddle stirrer</p> <p>Shaft length: 40 cm Stirrer diameter: 6.8 cm Shaft diameter: Ø 8 mm Material: 316 L stainless steel For gentle mixing at low and medium speeds</p> 	<p>Cat. No. 58460073</p>
<p>Straight stirrer</p> <p>Shaft length: 40 cm Stirrer diameter: 4 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed</p> 	<p>Cat. No.58460072</p>	<p>Centrifugal stirrer</p> <p>Shaft length: 40 cm Stirrer diameter: 9 cm Shaft diameter: Ø 8 mm Material: 316 L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.</p> 	<p>Cat. No. 58460074</p>
<p>Propeller stirrer</p> <p>Shaft length: 35 cm Stirrer diameter: 6.5 cm Shaft diameter: Ø 8 mm Material: PTFE coated Standard stirring applications at medium and high speed</p> 	<p>Cat. No. 5846075</p>	<p>Paddle stirrer</p> <p>Shaft length: 35 cm Stirrer diameter: 6.8 cm Shaft diameter: Ø8 mm Material: PTFE coated For gentle mixing at low and medium speeds</p> 	<p>Cat. No. 58460077</p>
<p>Straight stirrer</p> <p>Shaft length: 35 cm Stirrer diameter: 7 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Standard stirring applications at medium and high speed</p> 	<p>Cat. No. 58460476</p>	<p>Centrifugal stirrer</p> <p>Shaft length: 35 cm Stirrer diameter: 8.5 cm Shaft diameter: Ø8 mm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.</p> 	<p>Cat. No. 58460478</p>
<p>Grand propeller stirrer</p> <p>Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Standard stirring</p> 	<p>Cat. No. 58460478</p>	<p>Grand paddle stirrer</p> <p>Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Gentle mixing for those stratify easily or sensitive to shear</p> 	<p>Cat. No. 58460499</p>
<p>Grand anchor stirrer</p> <p>Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Standard stirring or for those easily precipitate</p> 	<p>Cat. No. 58460698</p>	<p>Grand dissolving stirrer</p> <p>Shaft length: 60 cm Stirrer diameter: 10 cm Shaft diameter: Ø8 mm Material: 316 L stainless steel Breaking down granules in the mixture with strong shear</p> 	<p>Cat. No. 58460500</p>
<p>Flat-blade stirrer</p> <p>Shaft length: 40 cm Stirrer diameter: 6 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Suitable for medium speed stirring, low viscosity and medium viscosity materials</p> 	<p>Cat. No. 58460625</p>	<p>Anchor stirrer</p> <p>Shaft length: 40 cm Stirrer diameter: 6 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Suitable for low speed stirring, medium viscosity and high viscosity materials</p> 	<p>Cat. No. 58460627</p>
<p>Radial-flow stirrer</p> <p>Shaft length: 40 cm Stirrer diameter: 5 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, low viscosity or medium viscosity materials, recommended for the treatment of gas in liquid</p> 	<p>Cat. No. 58460626</p>	<p>Spiral stirrer</p> <p>Shaft length: 40 cm Stirrer diameter: 5 cm Shaft diameter : Ø8 mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, medium viscosity and high viscosity materials, recommended for liquid homogenization or suspension treatment</p> 	<p>Cat. No. 58460628</p>





Micro Centrifuge ESL58503

Features

- Ideal for microfiltration and quick spin-down application
- Easy to operate. Lid close, it begin to rotate
- Max up to 7000rpm
- Compatible with 2mLx8 and PCR8x4 rotors
- Quiet running, noise level ≤45dB
- Quick-change rotor without any tool
- Accelerates and brakes in seconds
- Available in two colors i.e., green, blue
- Safe, durable and robust rotor with clamp locking design



Quiet operation



Vibration free

Specifications	ESL58503
Max. Speed	7000rpm
Max. RCF	2680xg
Rotor Capacity	0.2/0.5/1.5/2.0mLx8; 0.2mLx32 PCR strips or 0.2mLx4 PCR 8 strips
Run Time	Continuous operation
Driving Motor	DC motor
Power	AC100-240V/50Hz/60Hz 20W
Noise Level	<45dB
Dimension [DxWxH]	160x170x122mm
Weight	1.19kg
Certification	CE cTUV us FCC MCA



ESA8-2P

Max. speed:7000rpm
Max. RCF:2680xg
Rotor capacity:2mL/1.5mLx8,0.2mLx8,0.5mLx8
Rotor material:High strength plastic
Available rotor adapters:SA02P2, SA05P2



ESA04-RCR8

Max. speed:7000rpm
Max. RCF:2680xg
Rotor 0.2 mlx32 PCR strips, 0.2 mlx4 PCR 8 strips
Rotor material: High strength plastic



ESA02P2

0.2mL rotor adapter
Used with A08-2 rotor 8pcs/pk



ESA05P2

0.5mL rotor adapter
Used with A08-2 rotor 8pcs/pk



Low-speed Centrifuge ESL58507

Features

- Speed range from 300-5000rpm;
- Rotor speed can be set and displayed by RPM or G-force;
- Defined program by knob will be stored and activated when power on;
- Two programs P1/P2, easy to start the procedure by one key;
- Two deceleration speeds setting to meet different requirements;
- Easy-to-read processing display and sound alert;
- Automatic lid-lock release after running;
- Maintenance-free brushless DC motor.

Specifications	ESL58507
Speed Range	300-5000rpm, increment:10rpm
Max. RCF	2350xg, increment: 10g
Speed accuracy	+20rpm
Rotor capacity	6x15mL/10mL/7mL/1.5-5ml
Run Time	30sec-99min, HD (continuous running)
Display	LCD
Programs Memory	2
Acceleration/Deceleration	1121
Safety Devices	Door interlock, Over speed detector, Automatic internal diagnosis
Motor	Brushless DC motor
Power	Single-phase, 100V-240V, 50Hz/60Hz, 70W
Dimension(WxDxH)	300X240X180mm
Weight	5.2kg
Advanced features	Speed/RCF switch; sound-alert function



Labware

Available adapters



ES5P17

5ml adapter, Adapted to 13×75mm blood collection tube



ES2P17

1.5/2ml Cryogenic Vials/ centrifuge tube adapter

EduScience uk ESL-506 low-speed centrifuge, supplied with built in fixed angle rotor ESA6-15P which can hold up to 5mL /10mL/7m



High Speed Mini Centrifuge ESL58508

Features

- Speed up to 15000rpm (15100×g)
- Brushless DC motor drive quickly to the target speed
- Quiet working, Low noise ≤54dB
- ESL-2012 Pro is proven by IEC/EN 61010-1
- ESL-2012 Pro passed the rigorous explosion-proof test according to IEC/ E/V 61010-2-20. It is certified with CE, cTUVus, FCC



Brushless DC motor



LCD display



CE

Specifications	ESL58508
Max. Speed	15000rpm(500-15000rpm), increment: 100rpm
Max. RCF	15100×g, increment: 100×g
Speed Accuracy	±20rpm
Rotor Capacity	0.2mL/0.5mL/1.5mL/2mL×12
Run Time	30sec-99min/Continuous
Acceleration /Braking time	11s↑/9s↓
Driving Motor	Brushless DC motor
Safety Devices	Door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis
Power	Single-phase, AC100V-240V, 50Hz/60Hz, 3A 100W
Noise level	≤54dB
Dimension [D×W×H]	255×245×140mm
Weight	6kg
Certification	EMC, CE, FCC, ICES, cTUVus, CB

Available Rotors



A12-2P for ESL2012Pro only

Max. speed: 15000rpm
 Max. RCF: 15100×g
 Rotor capacity: 2mL/1.5mL×12,0.2mL×12,0.5mL×12
 Rotor material: High strength plastic
 Available rotor adapters: A02P2,A05P2

Available Adapters



A02P2

0.2mL rotor adapter
 Used with A12-2, A12-2P, AS24-2 and A24-2P rotors
 24 pcs/pk

A05P2

0.5mL rotor adapter
 Used with A12-2,A12-2P, AS24-2 and A24-2P rotors
 24 pcs/pk





Centrifuge Basic

Speed range of 300-4500rpm, Individual control of speed and time, Faster acceleration and deceleration, Perfectly suitable for 15mL cell culture tubes and a full line of collection tubes, Specifications, Speed Range 300-4500rpm, increment: 100rpm, Max. RCF 2490×g, Speed accuracy ±100rpm, Rotor Capacity 1 type, Run Time 1sec-99min HOLD(Continuous operation), Motor DC motor, Display LED, Safety Devices Door interlock, Over-speed detection, Acceleration, /Braking time [Sec] 23s 23s Power Single-phase, 220V-240V, 50Hz/60Hz, 3A; 100V- 120V, 50Hz/60Hz, 3A 70W,

Dimension : [D×W×H] 301×354×217mm

Weight : 6kg, Advanced Features sound-alert function.

ESL58504



Centrifuge Basic LCD

Easy programming to achieve high accuracy of speed control, Easy operation with intuitive menu and easy-to-read display Rotor speed can be set and displayed by RPM or G-force, Maintenance-free brush-less DC motors, Quick spin function with press and hold pulse key, Lid with electric lock and automatic release function saves processing time and prevents samples overheating Automatic self-diagnosis on start up showing accumulative running time and last running parameters, Braking time 2 gears adjustable(for A6-50P rotor), A12-10P and A6-50P are not interchangeable,

Specifications

Speed Range 300-4500rpm, increment: 100rpm, Max. RCF 2490×g, Speed accuracy ±20rpm, Rotor Capacity 1 type, Run Time 30sec-99min/ Continuous, Motor Brush-less DC motor, Display LCD, Safety Devices Door interlock, Overspeed detector; Automatic internal diagnosis, Acceleration /Braking time [Sec] 20s 13s, Power Single-phase, 110V-240V, 50Hz/60Hz, 3A, 70W

Dimension : [D×W×H] 301×354×217mm

Weight : 6kg, Certification CE, UL, IVD, Advanced Features Speed/RCF switch; Short-time run function; sound-alert function

ESL58505





Hematocrit Centrifuge ESL-1224 ESL58514

Features

- Speed range of 200-12000 rpm Precise and independent control of speed and time
- Easy operation with intuitive menu and LCD display
- Maintenance-free brushless DC motor
- Pulse operation for fast and convenient quick spins
- Advance features include speed/RCF switch; short-time run function; audible alert function
- Safety features include door interlock, over speed detector; over-temperature detector; automatic internal diagnosis and automatic rotor identification

Hematocrit Centrifuge ESL-1424 ESL58515

Features

Speed range of 500-12000 rpm - Precise control of speed and time
Maintenance-free brushless DC motors -Door interlock

Applications

ES hematocrit centrifuges are used for determination of erythrocyte fractions in blood as well as micro solution separations. It provides hematocrit values (HCT) for testing in biochemistry, immunity, genetics, blood separation and for general clinical tests for diagnostic purposes and also for dope tests. They have special applications for the photometric determination of bilirubin content in neonate blood samples. They are suitable for extraction of DNA and RNA. Veterinary clinics and Vitamins testing for Infants.



Specifications	ESL58514	ESL58515
Speed Range	200-12000rpm, increment: 10rpm	500-12000rpm, increment: 100rpm
Max. RCF	13680×g	13680×g
Speed Accuracy	±20	±100
Run Time	30sec-99min/Continuous	30sec-99min/Continuous
Motor	Brushless DC motor	Brushless DC motor
Display	LCD	LCD
Safety Devices	Door interlock, Overspeed detector; Automatic internal diagnosis, Automatic rotor identification	Door interlock
Acceleration/Braking time	30s↑30s↓	40s↑40s↓
Power Requirements	Single-phase, 200V-240V, 50Hz/60Hz, 5A; 100V-120V, 50Hz/60Hz, 5A 160W	Single-phase, 200V-240V, 50Hz/60Hz, 5A 380W
Dimension(WxDxH)	280×364×274mm	280×364×213mm
Weight	10.5kg	8.5Kg
Advanced features	Speed/RCF switch; Short-time run function; sound-alert function	Speed/RCF switch; Short-time run function; sound-alert function

Available rotors

AC24

Cat. No.58510047

ESL58514 & ESL58515

Max. speed: 12000rpm

Max. RCF: 13680×g

Rotor capacity: capillary tubes x24

Rotor material: High strength aluminum



High Speed Micro Centrifuge

ESL58509

ESL58510

Unique Features

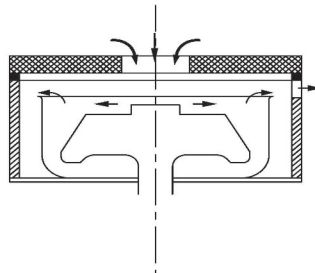
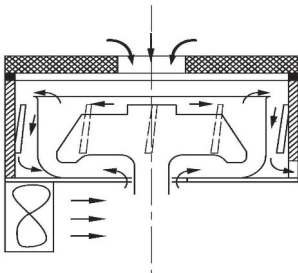
- Patent multi-flow air cooling design to provide air exchange to prevent chamber warming
- Three-layer seal ensure airtightness and biosafety
- High strength aluminum alloy rotor can be fully autoclaved for unlimited service life
- Four rotors are optional complete with 24 places 1.5/2.0mL tubes, bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with adapters



Labware

Effective Ventilation System

Conventional design



Proprietary design of dual path ventilation enforcing air cooling from both the upper and lower side for the rotor.

Limiting ventilation on the upper side of the rotor



Brushless DC motor



Wide range of rotors





Brushless DC motor



Wide range of rotors



Specifications	ESL58509	ESL58510
Max. Speed	15000rpm(200-15000rpm), increment:10rpm	15000rpm(200-15000rpm), increment:10rpm
Max.RCF	21380xg, increment:10xg	21380xg, increment: 10xg
Speed Accuracy	+20 rpm	+20 rpm
Temperature Range	-	-20°C-40°C
Rotor Capacity	5mLx18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mLx24, 0.5mLx36,PCR8x4	5mLx18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mLx24, 0.5mLx36,PCR8x4
Run Time	30sec-99min/Continuous	30sec-99min/Continuous
Motor	Brushless DC motor	Brushless DC motor
Safety Devices	Dual door interlock, Over-speed detection, Automatic internal diagnosis	Dual door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis
Power	Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V- 120V, 50Hz/60Hz, 8A 200W	Single-phase, AC200V-240V, 50Hz/60Hz, 10A, AC100V-120V,50Hz/60Hz, 10A 400W
Acceleration /Braking time [Sec]	25s↑25s↓	25s↑25s↓
Dimension[WxDxH]	280x364x266mm	338x580x324mm
Weight	12kg	30kg
Certification	CE cTÜVus FCC MCA	CE cTÜVus FCC MCA
Advanced Features	Speed/RCF switch; Short-time run function; sound-alert function	Speed/RCF switch; Short-time run function; sound-alert function
Noise Level	≤64dB	≤56dB





Rotor Features

Fully autoclavable

High strength aluminum alloy rotors are fully autoclavable, withstanding steam sterilizing at 121 °C for 20 minutes, with unlimited service life.

Bio-safety

Aspired to be the top-of-the-line model, ES3024 & ES3024R rotors are designed to prevent sample leakage. Each and every rotor is hermetically sealed by three rubber seals.

Mechanical safety

ES centrifuges are constructed under MCA conditions according to IEC/ EN61010-2-20, causing disruption by partially cutting and overloading rotor assembly, and guarantee that no part shall be detached to cause danger to person or the environment.

ES Rotors are manufactured from military- industrial grade aluminum alloy with high mechanical strength for precise running and safety (excludes ES2012 plus rotor)

- Every rotor can reach a max. speed of 15000rpm
- Rotors are seated on a tapered shaft, concentric and self-aligning, perfect to achieve running stability at high speeds
- ES3024 & ES3024R with bio-safety rotors/ anti- sample overflow prevents accidental leakage and risk free centrifugal process
- microbial contamination. ES3024 & ES3024R rotors have passed MCA test according to IEC/EN61010-2-20, including mechanical safety and bio-safety tests
- High strength aluminum alloy rotors are fully autoclavable and provide unlimited service life (ES2012 plus rotor not included)
- Powerful cooling system minimizes rotor heating. ES3024 rotors heat up to > 10° Cand D2012 rotors less than 8° C after running an hour

Three rubber seals fitted to achieve bio-safe condition

Seals within the aluminum alloy rotor



Rotors and Adapters

**ES24-2**

for ES3024 & ES3024R

Max. speed: 15000rpm
 Max. RCF: 21380×g
 Rotor capacity: 2mL/1.5mL×24/0.2mL×24/0.5mL×24
 Rotor material: Aluminum alloy
 Bio-safe(Bio sealing): Yes
 Available rotor adapters: A02P2,A05P2

**ES12-V5**

for ES3024 & ES3024R

Max. speed: 15000rpm
 Max. RCF: 21380×g
 Rotor capacity: 5mL×12(Eppendorf tube)
 Rotor material: Aluminum alloy
 Bio-safe(Bio sealing): Yes

**ES36-05**

for ES3024 & ES3024R

Max. speed: 15000rpm
 Max. RCF: 21380×g
 Rotor capacity: 0.5mL×36,0.2mL×36
 Rotor material: Aluminum alloy
 Bio-safe(Bio sealing): Yes
 Available rotor adapters: A02P05

**ESS4-PCR8**

for ES3024 & ES3024R

Max. speed: 15000rpm
 Max. RCF: 21380×g
 Rotor capacity:0.2mL/PCR8×4
 Rotor material: Aluminum alloy
 Bio-safe(Bio sealing): Yes



Rotors and Adapters



ES18-5
 for ES3024 & ES3024R

Max. speed : 15000rpm
 Max. RCF: 21380×g
 Rotor capacity: 5mL×18 (Round-Botton tube)
 Rotor material: Aluminum alloy
 Bio-safe(Bio sealing): Yes

Labware

Available adapters



ES02P2

0.2mL rotor adapter
 Used with ES12-2, ES12-2P, ES24-2 and ES24-2P rotors
 24pcs/pk



ES05P2

0.5mL rotor adapter
 Used with ES12-2, ES12-2P, ES24-2 and ES24-2P rotors
 24pcs/pk



ES02P05

0.2mL rotor adapter
 Used with ES36-05 rotor
 36pcs/pk





Multi-Purpose Low-speed Centrifuge ESL58506

Features

- Speed can be set from 300- 6000rpm
- Maximum capacity of the centrifuge: 100 mLx4
- 9 Acceleration/10 Brake speed settings to ensure optimal separation
- A wide range of rotors optional(fixed angle and swing-out bucket rotors)
- Automatic rotor identification
- Timers can be set up to 99 min or HD for continuous running
- Pulse Key for quick spin function
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motors

ES UK ESL58506 Multi-Purpose Low-speed Centrifuge is ideal for the centrifugation of samples in clinical chemistry, cytology, research laboratories, industrial laboratories, etc.

This centrifuge is suitable for tubes with caps, blood collection or urine tubes. Swing-out bucket rotors and adapters can be compatible with standard tubes up to 100mL at low speed.



Specifications	ESL58506
Speed range	300-6000rpm increment:10rpm
Max. RCF	4020xg
Speed accuracy	±20rpm
Max. Capacity	100mLx4
Run Time	30sec-99mins/continuous
Motor	Brushless DC
Display	LCD
Program Memory	9
Safety Devices	Door Imbalance protection Over speed & Over temperature detection
Acceleration/Deceleration	9↑/10↓ steps
Power	660W; Single-phase AC220V-240V, 50Hz/60Hz, 6.3A; AC110V-120V,50Hz/60Hz,10A
Dimension[WxDxH]	445x579x269mm
Weight	36kg
Certification	CE
Advanced features	speed/rcf switch; Rotor identification





Uncapping block

Cat. No. 58500045

for S4-100 rotor



SE4-100(Standard accessory)

Cat. No.58500041

for ESL58506

Max. speed: 4000rpm

Max. RCF: 2950×g

Rotor material: stainless steel body and adapter



A15V

Cat. No. 58500025

15ml conical tube adapter, MOQ 8 Pcs (optional)



19400045



19400044



19400043



19400042

bucket	x 4															
tube	x 36		x 16			x 8		x 4		x 4		x 8		x 20		
Nominal volume	3-7mL		10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL					
φ×L mm	13×75	13×100	16×100	17×105	17×120	29.5×100	38×108	38×104	29.5×100	17×120 13×100 13×75	13×100 13×75					
tube																
adapter	with plug															
Package	36					8	4		4		8	4				
Tubes per rotor	36	36	16	16	16	8	4	4	4	4	8	4	8	20		
Radius(cm)	14	16.5	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.1	14.7				
Max RCF (g-force)	2500	2950	2840	2840	2840	2840	2840	2840	2840	2840	2700	2630				



Available Rotors



Cat. No. 58500062

ES2-MP

ESL58506

Max. speed: 4000rpm
 Max. RCF: 2200×g
 Rotor capacity: Micro-plates 384-PCR/96-PCR/Elisa plates×8pcs; Deep well plates×4pcs
 Rotor material: stainless steel body and aluminum buckets



Cat. No. 58500036

ES12-PCR8

ESL58506

Max. speed: 6000rpm
 Max. RCF: 4020×g
 Rotor capacity: PCR 8 trips×12
 Rotor material: aluminum
 Biosealing: Yes



Cat. No. 58500034

ES30-2

ESL58506

Max. speed: 6000rpm
 Max. RCF: 4020×g
 Rotor capacity: 2mL×30
 Rotor material: aluminum
 Biosealing: Yes



Cat. No. 58500037

ES60-2

ESL58506

Max. speed: 6000rpm
 Max. RCF: 4020×g
 Rotor capacity: 2mL×60
 Rotor material: aluminum
 Biosealing: Yes



Available rotors



Cat. No. 58500038

ES6-50V (cone bottom)

ESL58506
Max. speed: 6000rpm
Max. RCF: 4020×g
Rotor capacity: 50mL×6 or 15mL×6
Rotor material: aluminum
Biosealing: Yes



Cat. No. 58500035

ES18-5V (cone bottom)

ESL58506
Max. speed: 6000rpm
Max. RCF: 4020×g
Rotor capacity: 5mL×18
Rotor material: stainless steel body and aluminum buckets
Biosealing: Yes



Cat. No. 58500039

E8-50 (round bottom)

ESL58506
Max. speed: 5000rpm
Max. RCF: 3960×g
Rotor capacity: 50mL×8 or 15mL×16
Rotor material: aluminum body and stainless steel adapter
Default adapters: SE100P31×8, SE100P17×6



Cat. No. 1158500040

E30-15 (round bottom)

ESL58506
Max. speed: 4500rpm
Max. RCF: 3210×g
Rotor capacity: 15mL×30
Rotor material: aluminum body and stainless steel adapter
Bio-safe(Biosealing): Yes
Default adapters: SE100P17×30

Rotor	Capacity	Hole Diameter (mm)	Hole Depth (mm)	Max. Tube Height (mm)	Max. Speed (rpm)
AS30-2	2mlx30	11.2	39	43	6000
AS60-2	2mlx60	11.2	39	43	6000
AS6-50V	50mlx6	31	87.8	118	6000
AS18-5V	5mlx18	17.5	51	56	6000
A8-50	50mlx8	35	85.8	118	5000
A30-15	15mlx16	17.5	98	123	5000
A30-15	15mlx30	17.5	98	123	4500
S2-MP	Micro platex8/ Deep well	-	-	-	4000



High-speed Refrigerated Micro Centrifuge ESL58511

Features

- Ergonomic electronic lock design, the centrifuge lid can be closed with single finger touch
- Precooling, the compressor will automatically start cooling as long as the set temperature is lower than the ambient temperature.
- Sound indicator to prompt that the upper cover is closed to maintain the temperature inside the chamber, after centrifugation.
- Advanced R290 fluorine free refrigerant, low carbon and environmental protection.
- Temp range: -20°C- 40°C, fast and powerful cooling capacity, 7 minutes cooling from room temp to 4°C. Temp can kept at max speed.
- Up to 9 program storage capacity according to experimental needs.
- Three-layer sealed rotors ensure airtightness and biosafety.
- High-strength aluminum alloy withstand numerous high temperature and high pressure sterilizations.
- Five rotors with 0.2mL, 0.5mL, 1.5mL, 2mL and 5mL centrifuge tubes/ PCR tubes capacity.
- An external condensation tank prevents water accumulation within the centrifuge chamber.
- Rotor imbalance detection alarm.



Specifications	ESL58511
Max.Speed	15,000rpm (200-15,000rpm) in 100rpm increments.
Max. RCF	21,380×g, step: 10×g
Capacity	1.5/2mL×24, 0.5mL×36, PCR8×4, 5mL×12, 5mL×18.
Temperature setting	-20°C- 40°C
Run Time	30s-99 min; HOLD (continuous running)
Acceleration and deceleration time	25s↑25s↓
Motor Type	DC brushless motor
Safety Performance	Dual door lock, over-speed detection, over-temperature detection with Internal diagnosis system.
Power Requirements	Single-phase, 200V-240V, 50Hz/60Hz, 500W 100V-120V, 50Hz/60Hz, 500W
Noise	≤56dB
Dimensions(mm) Weight	332(Width) × 553(depth) × 283(height) 30kg
Other functions	Rotation speed/RCF switchover, inching operation, running process indicator, sound alert. Acceleration/ deceleration in 9 steps, program storage capacity.

High Speed Refrigerated Centrifuge Model ESL-24SMTI

High Speed Refrigerated Centrifuge ESL-24SMTI

Max. RPM	24,000 RPM
Max. RCF	55,193 X g
Max. Capacity	4Liter, 1000ml X 4 Tubes
Display	Dual Display, LCD & FND
Operating mode	RPM, RCF & IW2d
Step mode	5 step programmable
Program memory	10 memory
Drive system	Inverter motor drive
Acceleration	10 profiles
Deceleration	10 profiles
Timer	99Hr. 59min. & Hold for long run
Pre-Condition	pre-cooling
Pre-Condition	-20°C to 40°C
Safety System	Over Speed detector, imbalance detector, Temperature Limit detector, Door detector
Dimension	645 x 960 X 1220(H)mm
Weight	Net. 230kg
Certification	CE, KGMP, ISO9001, ISO14001



Centrifuge Body	1
Fixed angle rotor, V508A	1
Rotor Extractor	1
Level	1
Instruction Manual	1



Centrifuge Body ,Swing Rotor ESL-R55S , Bucket ESL-C55 , Rack R5015-4C Power Cable , Manual



Multi-Purpose Refrigerated Centrifuge Model ESLS-550

Main Feature

Multi-Purpose Refrigerated Centrifuge: ESLS-550

Max. RPM	15,000RPM (Swing 4,500 RPM)
Max. RCF	21,130 x g (Swing 3,735 X
Max. Capacity	1000ml, 250ml X 4 Tubes
Main control	Microprocessor controller
Running mode	RPM / RCF
Programmability	10 memory
Timer	99Hr. 59min. & Hold for long run
Temperature Range	-20°C to 60°C
Drive system	Inverter Motor drive
Accel rates	Fast / Slow
Decel rates	Fast / Normal / Slow
Safety device	Over speed protect. Over load protect, Unbalance detector, Temp. protector,
Dimension	675x548 X 366(H)mm
Weight	96Kg
Power	220V, 2Kw, 60Hz
Certification	CE, KGMP, ISO9001, ISO14001



Rotor

ESL-550

Swing-out Rotor

Swing Rotor



VR-55S
4500RPM, 3755G
250ml x 4 tubes, R165mm

Sealing Bucket



VC-55
250ml
Sealing Cap available
Alluminum alloy

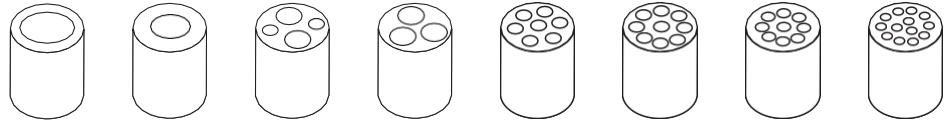
Micro-plate Rotor

Micro-plate Rotor

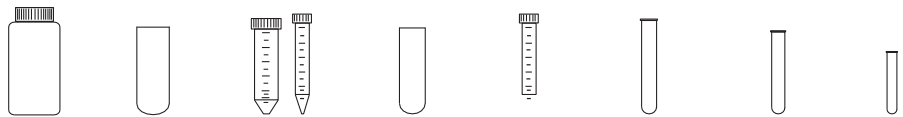


VR-02MS
2500RPM
2000G
96well Micro-plate x 2EA

Tube Rack



Model	R250-1S	R100-1S	R5015-4C	R50-3S	R15-7C	R15-9S	R10-9S	R5-13S
Tube	250ml	100ml	50 & 15 ml	50ml	15ml	15ml	10ml	5ml
Places	1	1	4	3	7	9	9	13
ø x L mm	62 x 128	39 x 106	30 x 115	29 x 104	17 x 120	16 x 114	14 x 100	10 x 75



Fixed Angle Rotor for VS-550

Micro & PCR Tube



VR-C1 combo
1.5ml x 28 tubes
0.4ml x 32 tubes
14000 RPM, 21475G

Micro Tube



V1.524A-55
1.5ml x 24tubes
15000 RPM, 20124G

Round / Oak ridge




V1012A-55
10ml x 12tubes
15000 RPM, 21,130G
V1512A-55
15ml x 12tubes
14000 RPM, 20817G
V506A-55
50ml x 6tubes
14000 RPM, 20817G

Conical Tube-15ml



V1512AC-55
conical tube
15ml x 12tubes
12000 RPM, 16035G
R99.6mm

Conical Tube-50ml



V506AC-55
50ml x 6tubes
12000 RPM, 16180G
R 100.5mm



Centrifuge Hand, 2 X 15ml

A single speed hand driven machine consisting of die-cast parts and a steel pinion and worm drive. Screw clamps the machine to the bench. Stove enamelled finish, with removable crank handle. Suitable for 15ml glass tubes.

ESL58528

Centrifuge Hand, 4 X 15ml

A single speed hand driven machine consisting of die-cast parts and a steel pinion and worm drive. Screw clamps the machine to the bench. Stove enamelled finish, with removable crank handle. Suitable for 15ml glass tubes.

ESL58529



Centrifuge Tube Sterile Bulk-Pp, 15ml

SPINNING Centrifuge Tube Sterile Bulk-PP,

ESL58537 15ml, 25/pack

ESL58538 50ml, 25/pack



Pipette Tips With Rack

- Non-sterile autoclavable thin-walled pipette tips
- Available in various packaging
- Free from RNase, DNase, and pyrogenic substances
- Material: 100% virgin polypropylene.
- Autoclavable at 121 °C.
- Packaging: bulk (1,000), by rack (1x96), or by refill trays (10x96)

Capacity (µL)	SKU # Without Rack	SKU # With Rack
0.1-10µL	ESL56955	ESL56955R
10 - 200µL	ESL56956	ESL56956R
100 - 1000µL	ESL56957	ESL56957R



Centrifuge Tube , Conical Bottom, Graduated

- Manufactured from ASTM E-438, Boro 3.3 glass.
- Ideal for collecting and separating small amounts of solids.
- Uniformly drawn high quality tubing make the tube durable and safer to use.
- Pointed center of the base collects higher density fraction.
- Uniformly drawn high quality tubing make the tube durable.
- These tube comes with conical bottom
- Provided with graduation for greater precision.
- Marking are in White or Blue enamel.

SKU #	Capacity (mL)	OD x Length (mm)	Pack (pcs)
ESL58535/5	5	13 x 100	100
ESL58535/10	10	15 x 110	100
ESL58535/15	15	17 x 120	100
ESL58535/25	25	22 x 125	100
ESL58535/50	50	28 x 140	50



Eppendorf Tubes 1.5 ml Autoclavable

Ales Description Autoclavable Eppendorf Tubes
Capacity : 1.5 ml Pk/500 Pcs

ESL58541

Eppendorf Tubes 2 ml Autoclavable

Ales Description Autoclavable Eppendorf Tubes
Capacity : 2 ml Pk/500 Pcs

ESL58541





Vacuum Pump Hand Operated

Hand Operated Vacuum Pump

ESL58470



Vacuum Pump Electric

Vacuum pump, electric:

Single stage

Suction capacity 4,6 m³/h

Ultimate vacuum 10 Pa

Noise 46 - 50 dB(A)

Suction connector KS 6/4 mm

Motor power 120 W

Voltage source 220 - 240 V / 50 - 60 Hz

Dimension : s 28x12x21 cm

Weight : 7 kg

ESL58471

Vacuum Pump Electric Lab Use

Oil-free pump. With innovative electronic, mechanical technology and human design concept make Rocker's family quiet and low vibration, compact and light weight, clean and maintenance free, safe and comfortable.

Max. Vacuum: -680mmHg * Max. Flow: 23 l/Min * Motor rotation: 1750 RPM * Horse power: 1/8 HP * Noise level: 50.0dB

ESL58472



Bottle Top Dispenser

Excellent chemical resistance, components are made of PTFE, FEP, BSG, PP Fully autoclavable at 121 ° C Four ranges of bottle-top dispenser covering different volume range Easy for cleaning and maintenance The optional flexible discharge tube with safety handle permits fast and precise dispensing Vapour pressure Max. 500mbar, viscosity Max. 500mm²/s, Temperature Max. 40 ° C, density Max. 2.2g/cm³

ESL58590 Volume range : 0.5-5 ml
ESL58591 Volume range : 1.0-10 ml

ESL58592 Volume range : 2.5-25 ml
ESL58593 Volume range : 5.0-50 ml



Bottle Top Dispenser Advance

Designed for safe, sturdy & stable dispensing directly from the bottle in the range of volumes up to 5 mL O Fast, precise, and reproducible volume locking mechanism on a clear scale O Reagent recovery function reduces reagent waste and prevents dripping when not in use O Adjustable aspirating tube for different bottle heights Features High chemical compatibility with use of inert materials and glass PTFE piston

- Easy to disassemble and clean for periodic maintenance
- Fully autoclavable at 121t to ensure sterility
- Supplied with most popular adapters (540, GL32, GL38, GL25, GL28)

ESL58590ADV	Volumes 5 mL	0.5-5 Advance Graduation : 0.1 ml
ESL58591ADV	Volumes 10 mL	1.0-10 Advance Graduation : 0.2 ml
ESL58592ADV	Volumes 25 mL	2.5-25 Advance Graduation : 0.5 ml
ESL58593ADV	Volumes 50 mL	5.0-50 Advance Graduation : 1 ml
ESL58594ADV	Volumes 100 mL	10-100 Advance Graduation : 2 ml

Bottle Top Dispenser Electronic 0.1-99.9 ml

- Motor operation minimizes the grip force
- Electronic control decreases the repetitive strain injury
- Remote control panel prevents manual disturbance during operation
- Two Dispensing modes, dispenser and stepper function options

Volume Range : 0.1-99.9mL, Max piston lift is 10mL, resolution is 100µL Volume Accuracy Dispenser: R = 10mL ±30µL; CV = 10ml ±10µL Stepper: R = 1mL ±6µL; CV = 1ML ±9µL Operating Temperature Range 10oC-30oC Quality Control DIN EN ISO 8655 Control Type External control

ESL58595



Electronic Titrator, (Electronic Burette) 0.01 - 99.99 ml

Digital Burette - provides accurate, precise and convenient bottle-top titration with optimum operator safety.

It combines both magnetic stirrer and Burette functions, making it easier for the user to achieve reproducible results in the field of analytical chemistry, food industry, water analysis etc, High quality motor with excellent precision and accuracy Electronic control provides fatigue-free operation Remote control panel prevents manual disturbance during operation Built -In magnetic stirrer for a complete and easy operation Large LOD display parameter Volume Range : 0.01 ml -99.99ml., Max piston lift is 10ml, resolution is 10pl. Volume Accuracy : R=0.2% CV=0.07% Speed Level : 16 stages Operating Temperature Range : 10 ° C-30 ° C Quality Control : DIN EN ISO 8655 Control Type : External control, including the stirrer and the burette program

ESL58598



Pipettes

**Pipette Controller
ESL58568**

Features

- Ease of use
- Precise pipetting control
- Robust and light weight
- Compatible with most of the plastic and glass pipettes from 0.1 -100mL
- 3µm replaceable hydrophobic filter
- Easy for cleaning and maintenance

Pipette Pump

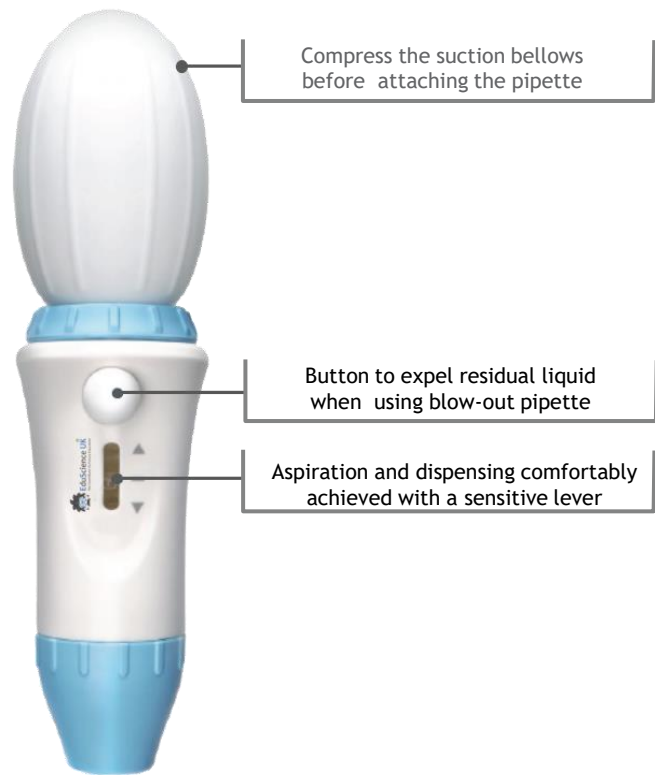
- ESL56391 2 ML**
- ESL56392 10 ML**
- ESL56393 25 ML**

Features

- Volume capacity 2mL, 10mL and 25mL
- Colour-coded by volume with green, blue and red
- Thumb wheel guarantees precise operation
- Resistant to acids and alkalis
- Easy for cleaning and maintenance



Designed for single-handed operation, Pipette Pump identifies itself with a thumbwheel, allowing precise aspiration or dispensing. The feature of side lever enables complete liquid dispensing, without a droplet remaining.



Compress the suction bellows before attaching the pipette

Button to expel residual liquid when using blow-out pipette

Aspiration and dispensing comfortably achieved with a sensitive lever



3µm replaceable Hydrophobic filter

Silicone adapter for 0.1-100mL pipette tip, fully autoclavable

Mini Pipette

Features

- Ergonomic design provides excellent operation experience;
- Smart body, ideal to combine with IVD reagents;
- Compatible with universal 200µl tips;
- Various volumes from 25ul to 200ul, different color for different volumes, easy to choose;
- Entire body by one-time molding, robust to use.



Volumes	Color
200ul	Gray
100ul	Blue
75ul	Red
50ul	Orange
30ul	Yellow
25ul	Dark Green
OEM	Optional



Pipette Filler Electronic Basic ESL58569

Elegant design & reliable performance, with long-life battery

Features

- Enables single-handed operation with minimum effort
- Speed adjustment simply with finger tips
- Individually set aspiration (upper button) and dispensing (lower button) speeds
- Compatible with glass or plastic serological pipettes pipettes(0.1- 100mL)
- 0.45µm replaceable hydrophobic filter
- High capacity Li-ion battery enables long operation time

Large LCD display showing low battery warning and speed settings



Select the desired coarse speed by pressing the button



Labware

Pipette Filler Electronic ADV ESL58570

Features

- Compatible with most of the plastic and glass pipettes from 0.1 -100mL
- Six different speed modes for aspiration and dispensing different liquids
- Large LCD display showing low battery warning and speed settings
- Enables single-handed operation with minimum effort
- Light and ergonomic design providing easy usability
- High capacity Li-ion battery enable long runtime of operation
- Powerful pump fills a 25mL pipette in <5 seconds
- 0.45µm replaceable hydrophobic filter
- Rechargeable during use



Hydrophobic filter 0.45µm

Silicone adapter for 0.1-100mL pipette tip, fully autoclavable

Specifications	ESL58569	ESL58570
Aspiration Speed	25mL<5s (6 shift)	25mL<5s (7 shift)
Dispensing Speed		Motor/Gravity
Battery		Lithium-ion
Battery Service Life		More than 8 Hours of Intermittence Use
Charging Time		2-3 Hours
Pipette Types		Glass or Plastic Pipette (0.1-100mL), Pasteur Pipettes
Filter		0.45µm Hydrophobic
Weight		200g





Micro-Pipette Fixed Volume Basic

Mechanical, Single-channel Fixed Volume Basic grade of mechanical pipettes from with autoclavable lower half. Each of these high quality laboratory pipettes comes with an individual test certificate, that adheres to ISO8655. Our pipette is one of the most lightweight and easy to operate pipettes on the market.

Features

- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1µL to 10mL
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved

Fixed Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(Accuracy error)		(Precision error)	
				%	µL	%	µL
ESL58572/5UL	5µL	-	5ul	1.30%	0.065	1.20%	0.06
ESL58572/10UL	10µL	-	10µL	0.80%	0.08	0.80%	0.08
ESL58572/20UL	20µL	-	20µL	0.60%	0.12	0.50%	0.1
ESL58572/25UL	25µL	-	25µL	0.50%	0.125	0.30%	0.075
ESL58572/50UL	50µL	-	50µL	0.50%	0.25	0.30%	0.15
ESL58572/100UL	100µL	-	100µL	0.50%	0.5	0.30%	0,3
ESL58572/200UL	200µL	-	200µL	0.40%	0.8	0.20%	0.4
ESL58572/250UL	250µL	-	250µL	0.40%	1	0.20%	0.5
ESL58572/500UL	500uL	-	500µL	0.30%	1.5	0.20%	1
ESL58572/1000UL	1000µL	-	1000uL	0.30%	3	0.20%	2,0
ESL58572/2000UL	2000µL	-	2000uL	0.30%	6	0.15%	3
ESL58572/5000UL	5000µL	-	5000uL	0.30%	15	0.15%	7.5

Micro-Pipette Fixed Volume Advance

The pipette is fully autoclavable, being able to withstand temperatures of 121°C and pressure of 1ATM, and does not need to be pre-treated prior. Following the autoclave cycle, a 12 hour cooling and drying period ensures that the high performance of the Micro-Pipette Fixed Volume Advance is retained. It is recommended the piston and rubber seals be greased after every 10 cycles of autoclaving.

Features

- Streamlined shape design
- Comprehensive volume range from 0.1µL to 10mL
- Easy calibration and maintenance
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assembly
- Spring loaded tip cones for easy cleaning and maintenance
- Compound material-made tip cone secures high sealing performance

Fixed Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(Accuracy error)		(Precision error)	
				µL	%	µL	%
ESL58571/5UL	5µL	-	5µL	±0.065	±1.3	±0.06	±1.2
ESL58571/10UL	10µL	-	10µL	±0.08	±0.8	±0.08	±0.8
ESL58571/20UL	20µL	-	20µL	±0.12	±0.6	±0.1	±0.5
ESL58571/25UL	25µL	-	25µL	±0.125	±0.5	±0.075	±0.3
ESL58571/50UL	50µL	-	50µL	±0.25	±0.5	±0.15	±0.3
ESL58571/100UL	100µL	-	100µL	±0.5	±0.5	±0.3	±0.3
ESL58571/200UL	200µL	-	200µL	±0.8	±0.4	±0.4	±0.2
ESL58571/250UL	250µL	-	250µL	±1.0	±0.4	±0.5	±0.2
ESL58571/500UL	500uL	-	500uL	±1.5	±0.3	±1.0	±0.2
ESL58571/1000UL	1000µL	-	1000µL	±3.0	±0.3	±2.0	±0.2
ESL58571/2000UL	2000µL	-	2000µL	±6.0	±0.3	±3.0	±0.15
ESL58571/5000UL	5000µL	-	5000µL	±15	±0.3	±7.5	±0.15



Micro-pipette Variable Range Basic

Single-Channel Adjustable Mechanical Pipette

Features

The pipette cover wide of variable Volume range

- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1µL to 10mL
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved

Single-channel Adjustable Volume Pipettes Error limits in accordance with ISO8655-2

SKU	Volume Range	Increment	Test Volume	(Accuracy error)		(Precision error)	
				%	µL	%	µL
ESL58573	0.1-2.5µL	0.05µL	2.5µL	2.50%	0.0625	2.00%	0.05
			1.25µL	3.00%	0.0375	3.00%	0.0375
			0.25µL	12.00%	0.03	6.00%	0.015
ESL58574	0.5-10µL	0.1µL	10µL	1.00%	0.1	0.80%	0.08
			5µL	1.50%	0.075	1.50%	0.075
			1µL	2.50%	0.025	1.50%	0.015
ESL58575	2-20µL	0.5µL	20µL	0.90%	0.18	0.40%	0.08
			10µL	1.20%	0.12	1.00%	0.1
			2µL	3.00%	0.06	2.00%	0.04
ESL58576	5-50µL	0.5µL	50µL	0.60%	0.3	0.30%	0.15
			25µL	0.90%	0.225	0.60%	0.15
			5µL	2.00%	0.1	2.00%	0.1
ESL58577	10-100µL	1µL	100µL	0.80%	0.8	0.15%	0.15
			50µL	1.00%	0.5	0.40%	0.2
			10µL	3.00%	0.3	1.50%	0.15
ESL58578	20-200µL	1µL	200µL	0.60%	1.2	0.15%	0.3
			100µL	0.80%	0.8	0.30%	0.3
			20µL	3.00%	0.6	1.00%	0.2
ESL58579	50-200µL	1µL	200µL	0.60%	1.2	0.15%	0.3
			100µL	0.80%	0.8	0.30%	0.3
			50µL	1.00%	0.5	0.40%	0.2
ESL58580	100-1000µL	5µL	1000µL	0.60%	6	0.20%	2
			500µL	0.70%	3.5	0.25%	1.25
			100µL	2.00%	2	0.70%	0.7
ESL58581	200-1000µL	5µL	1000µL	0.60%	6	0.20%	2
			500µL	0.70%	3.5	0.25%	1.25
			200µL	0.90%	1.8	0.30%	0.6
ESL58582	1000-5000µL	50µL	5000µL	0.50%	25	0.15%	7.5
			2500µL	0.60%	15	0.30%	7.5
			1000µL	0.70%	7	0.30%	3
ESL58583	2-10mL	0.1mL	10mL	0.60%	60	0.20%	20
			5mL	1.20%	60	0.30%	15
			2mL	3.00%	60	0.60%	12



Labware





Micro-Pipette Variable Volume Advance

The pipette is fully autoclavable, being able to withstand temperatures of 121°C and pressure of 1ATM, and does not need to be pre-treated prior. Following the autoclave cycle, a 12 hour cooling and drying period ensures that the high performance of the Micro-Pipette Fixed Volume Advance is retained. It is recommended the piston and rubber seals be greased after every 10 cycles of autoclaving.

Features

- Streamlined shape design
- Comprehensive volume range from 0.1µL to 10mL
- Easy calibration and maintenance
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assembly
- Spring loaded tip cones for easy cleaning and maintenance
- Compound material-made tip cone secures high sealing performance

Error limits in accordance with ISO8655-2

SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58573A	0.1-2.5	0.05	2.5	±0.0625	±2.50	±0.05	±2.00
			1.25	±0.0375	±3.00	±0.0375	±3.00
			0.25	±0.03	±12.00	±0.015	±6.00
ESL58574A	0.5-10	0.1	10	±0.1	±1.00	±0.08	±0.80
			5	±0.075	±1.50	±0.075	±1.50
			1	±0.025	±2.50	±0.015	±1.50
ESL58575A	2 - 20	0.5	20	±0.18	±0.90	±0.08	±0.04
			10	±0.12	±1.20	±0.1	±1.00
			2	±0.06	±3.00	±0.04	±2.00
ESL58576A	5 - 50	0.5	50	±0.3	±0.60	±0.15	±0.30
			25	±0.225	±0.90	±0.15	±0.60
			5	±0.1	±2.00	±0.1	±2.00
ESL58577A	10-100	1	100	±0.8	±0.80	±0.15	±0.15
			50	±0.5	±1.00	±0.2	±0.40
			10	±0.3	±3.00	±0.15	±1.50
ESL58578A	20-200	1	200	±1.2	±0.60	±0.3	±0.15
			100	±0.8	±0.80	±0.3	±0.30
			20	±0.6	±3.00	±0.2	±1.00
ESL58579A	50-200	1	200	±1.2	±0.60	±0.3	±0.15
			100	±0.8	±0.80	±0.3	±0.30
			50	±0.5	±1.00	±0.2	±0.40
ESL58580A	100-1000	5	1000	±6	±0.60	±2	±0.20
			500	±3.5	±0.70	±1.25	±0.25
			100	±2	±2.00	±0.7	±0.70
ESL58581A	200-1000	5	1000	±6	±0.60	±2	±0.20
			500	±3.5	±0.70	±1.25	±0.25
			200	±1.8	±0.90	±0.6	±0.30
ESL58582A	1000-5000	50	5000	±25	±0.50	±7.5	±0.15
			2500	±15	±0.60	±7.5	±0.30
			1000	±7	±0.70	±3	±0.30



Micro-Pipette Variable Volume Pro

new generation fully autoclavable mechanical pipette has the best ergonomic design and ultralight weight. It has been designed keeping in mind the human form and human factors to offer smooth and effortless ergonomic pipetting experience. It is UV sterilisable and resistant to strong chemical corrosion. In addition, the volume lock helps protect from volume changing accidentally, and achieve reliable pipetting of smallest volume of liquids.

Features

- Ultra-light ergonomic design : Light weight and light pipetting force with soft range adjustment and piston movement offers effortless & fatigue-less pipetting experience.
- Accurate pipetting : Special material and the updated components & technologies effectively reduces the operating force for accuracy, precision and reliability..
- Complete sterilization : The best in class pipette material used is fully autoclavable. It gives better protection against chemical & physical corrosion, and offers enhanced UV resistance for higher durability.



Labware

Error limits in accordance with ISO8655-2

SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58573P	0.1-2.5	0.002	2.5	±0.04	±1.4	±0.02	±0.7
			1.25	±0.03	±2.5	±0.02	±1.5
			0.25	±0.03	±12.0	±0.02	±6.0
ESL58574P	0.5-10	0.01	10	±0.10	±1.0	±0.04	±0.4
			5	±0.08	±1.5	±0.04	±0.8
			1	±0.03	±2.5	±0.02	±1.8
ESL58575P	2-20	0.02	20	±0.20	±1.0	±0.06	±0.3
			10	±0.12	±1.2	±0.06	±0.6
			2	±0.10	±5.0	±0.03	±1.5
ESL58576P	5-50	0.05	50	±0.45	±0.9	±0.15	±0.3
			25	±0.35	±1.4	±0.20	±0.8
			5	±0.15	±3.0	±0.08	±1.6
ESL58577P	10-100	0.1	100	±0.80	±0.8	±0.20	±0.2
			50	±0.50	±1.0	±0.15	±0.3
			10	±0.30	±3.0	±0.10	±1.0
ESL58578P	20-200	0.2	200	±1.20	±0.6	±0.40	±0.2
			100	±1.00	±1.0	±0.30	±0.3
			20	±0.50	±2.5	±0.14	±0.7
ESL58579P	30-300	0.2	300	±1.80	±0.6	±0.60	±0.2
			150	±1.50	±1.0	±0.45	±0.3
			30	±0.75	±2.5	±0.21	±0.7
ESL58580P	100-1000	1	1000	±6.00	±0.6	±2.00	±0.2
			500	±5.00	±1.0	±1.00	±0.2
			100	±3.00	±3.0	±0.60	±0.6
ESL58581P	1000-5000	5	5000	±30.00	±0.6	±10.00	±0.2
			2500	±15.00	±0.6	±7.50	±0.3
			1000	±12.00	±1.2	±3.00	±0.3
ESL58582P	2000-10000	10	10000	±60.00	±0.6	±20.00	±0.2
			5000	±40.00	±0.8	±10.00	±0.2
			2000	±30.00	±1.5	±6.00	±0.3



Micro-Pipette Multi Channel Variable Range Basic

Multi-channel, Mechanical, 12-channel Adjustable

Features

- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1µL to 10mL
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved
- 8 and 12 channel pipettes are available for standard 96-well plate
- Dispensing head rotates for optimum pipetting convenience
- Individual piston and tip cone assemblies allow easy repair and maintenance
- Compound material tip cone design allows visual seal verification
- Can be used with universal style pipette tips



8-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(Accuracy error)		(Precision error)	
				%	µL	%	µL
ESL58584/0.51	0.5-10µL	0.1µL	10µL	1.50%	0.15	1.50%	0.15
			5µL	2.50%	0.125	2.50%	0.125
			1µL	4.00%	0.04	4.00%	0.04
ESL58584/55	5-50µL	0.5µL	50µL	1.00%	0.50	0.50%	0.25
			25µL	1.50%	0.375	1.00%	0.25
			5µL	3.00%	0.15	2.00%	0.1
ESL58584/503	50-300µL	5µL	300µL	0.70%	2.1	0.25%	0.75
			150µL	1.00%	1.5	0.50%	0.75
			50µL	1.50%	0.75	0.80%	0.4

12-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
				(Accuracy error)		(Precision error)	
				%	µL	%	µL
ESL58585/0.51	0.5-10µL	0.1µL	10µL	1.50%	0.15	1.50%	0.15
			5µL	2.50%	0.125	2.50%	0.125
			1µL	4.00%	0.04	4.00%	0.04
ESL58585/55	5-50µL	0.5µL	50µL	1.00%	0.5	0.50%	0.25
			25µL	1.50%	0.375	1.00%	0.25
			5µL	3.00%	0.15	2.00%	0.1
ESL58585/503	50-300µL	5µL	300µL	0.70%	2.1	0.25%	0.75
			150µL	1.00%	1.5	0.50%	0.75
			50µL	1.50%	0.75	0.80%	0.4



Micro-Pipette Multi Channel Variable Range Advance

Multi-channel, Mechanical, 12-channel Adjustable

Features

- Light weight, ergonomic, low force design
- The pipettes cover volume range of 0.1µL to 10mL
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655.
- The lower section can be autoclaved
- 8 and 12 channel pipettes are available for standard 96-well plate
- Dispensing head rotates for optimum pipetting convenience
- Individual piston and tip cone assemblies allow easy repair and maintenance
- Compound material tip cone design allows visual seal verification
- Can be used with universal style pipette tips



8-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58584/0.51A	0.5-10	0.1	10	±0.15	±1.50	±0.15	±1.50
			5	±0.125	±2.50	±0.125	±2.50
			1	±0.04	±4.00	±0.04	±4.00
ESL58584/55A	May-50	0.5	50	±0.5	±1.00	±0.25	±0.50
			25	±0.375	±1.50	±0.25	±1.00
			5	±0.15	±3.00	±0.1	±2.00
ESL58584/101A	10-100	1	100	±0.8	±0.80	±0.3	±0.30
			50	±0.5	±1.00	±0.4	±0.80
			10	±0.3	±3.00	±0.2	±2.00
ESL58584/503A	50-300	5	300	±2.1	±0.70	±0.75	±0.25
			150	±1.5	±1.00	±0.75	±0.50
			50	±0.75	±1.50	±0.4	±0.80
ESL58584/1010A	100-1000	10	1000	±10	±1.00	±3	±0.30
			500	±10	±2.00	±2.5	±0.50
			100	±5	±5.00	±1	±1.00

12-channel Adjustable Volume Pipettes

SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58585/0.51A	0.5-10	0.1	10	±0.15	±1.50	±0.15	±1.50
			5	±0.125	±2.50	±0.125	±2.50
			1	±0.04	±4.00	±0.04	±4.00
ESL58585/55A	May-50	0.5	50	±0.5	±1.00	±0.25	±0.50
			25	±0.375	±1.50	±0.25	±1.00
			5	±0.15	±3.00	±0.1	±2.00
ESL58585/101A	10-100	1	100	±0.8	±0.80	±0.3	±0.30
			50	±0.5	±1.00	±0.4	±0.80
			10	±0.3	±3.00	±0.2	±2.00
ESL58585/503A	50-300	5	300	±2.1	±0.70	±0.75	±0.25
			150	±1.5	±1.00	±0.75	±0.50
			50	±0.75	±1.50	±0.4	±0.80





Electronic Pipette Plus

For Pipetting Mixing, Stepper and Dilution



Electronic E Pipette

For Pipetting and Mixing

Electronic Micropipette

Features

- Motor driven digitally control pipette with multifunction's
- Easy Operations and Handling
- intuitive menu interface settings; functions and operations
- Minimal force for pipetting operation
- High performance ensuring accuracy & repeatability
- 2 buttons for all operational settings
- Adjustable speed for aspiration and dispensing
- Li-ion battery enable longer Operative time
- Convenient and Versatile
- Self-colibrioti0n applicable

Specifications

SKU	Channels	Volume Range	Increment	Test Volume	Accuracy Error		Precision Error	
		µL	µL	µL	µL	%	µL	%
ESL58586E1	1	0.5-10	0.01	10	±0.10	±1.00	±0.05	±0.50
ESL58587EP1				1	±0.035	±3.50	±0.03	±3.00
ESL58586E5	1	5-50	0.1	50	±0.40	±0.80	±0.15	±0.30
ESL58587EP5				5	±0.15	±3.00	±0.125	±2.50
ESL58586E3	1	30-300	1	300	±1.80	±0.60	±0.60	±0.20
ESL58587EP3				30	±0.09	±3.00	±0.21	±0.70
ESL58586E10	1	100-1000	5	1000	±6.00	±0.60	±2.00	±0.20
ESL58587EP10				100	±3.00	±3.00	±0.60	±0.60

specifications are used as guidelines on the user calibration should refer to the industrial standard ISO 8655





Pipettes Stand Linear ESL58588

The universal linear pipette holder designed and manufactured by ES is compatible with our pipette series. It can stably and conveniently hold up to 8 single-channel and multi-channel pipettes simultaneously, and up to 10 pipettes. This holder is a practical tool for laboratory pipetting operations due to its stability and convenience.

Multi-Functional 8-channel Electronic Pipette

ES multi-functional high performance 8-channel electronic pipette offers productive pipetting with its easy-to-understand operations. Its uniquely lightweight streamlined design ensures an effortless transfer of multiple samples with an increased throughput and data reproducibility.

- **Easy Operation**

Intuitive interface for setting functions and parameters.

- **Ergonomic Design**

Low operation forces for complete work, which is exceptionally fatigue-free.

- **Convenient and Versatile**

360° pipetting. Double knobs for simple and versatile control. Easy loading tip cones offers smooth and leak-free operation.

- **Dual charging modes**

Use of USB charger or the charging stand to ensure uninterrupted use.

Three easy steps to operate

1

Long press the Parameter Knob for 2 seconds to Start

2

Quickly turn the Function wheel to Activate, Rotate to Switch Pipetting, Continuous Dispensing, and other Function Settings

3

After quickly turning the Parameter Knob to Unlock, Turn to Adjust the Volume, Press to Pipette, Long press to Mix



Pipettes Stand Round ESL58588R

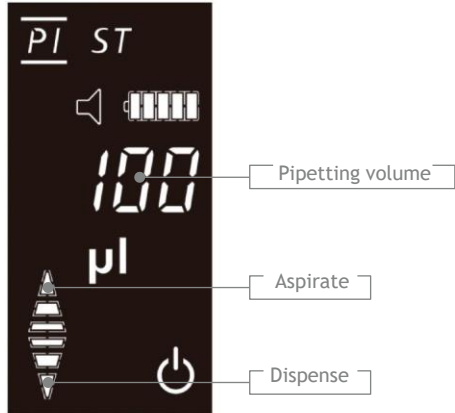
The universal circular pipette holder designed and manufactured by ES is compatible with the Dragon pipette series - MicroPipette Plus pipettes. The freely rotatable circular pipette holder can securely hold up to 6 single and multi-channel pipettes.



Electronic Pipette

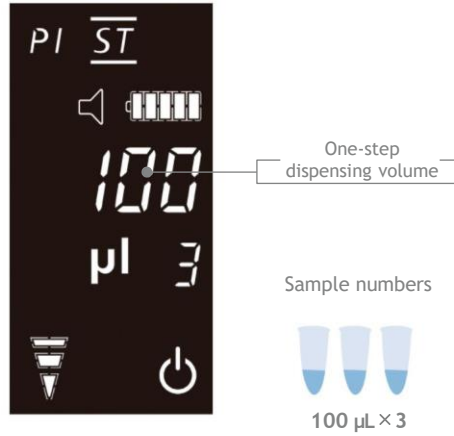
Pipetting function

Parameter Knob press → Pipetting
 Long press → Mixing



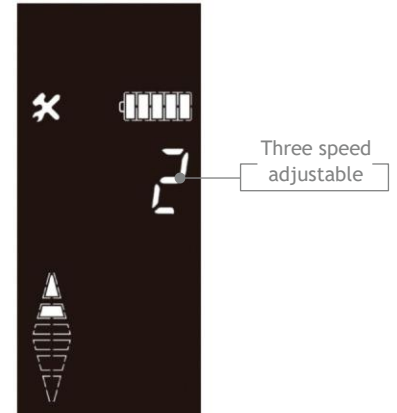
Stepper function

Maximum steps = Pipette nominal volume / One step dispensing volume



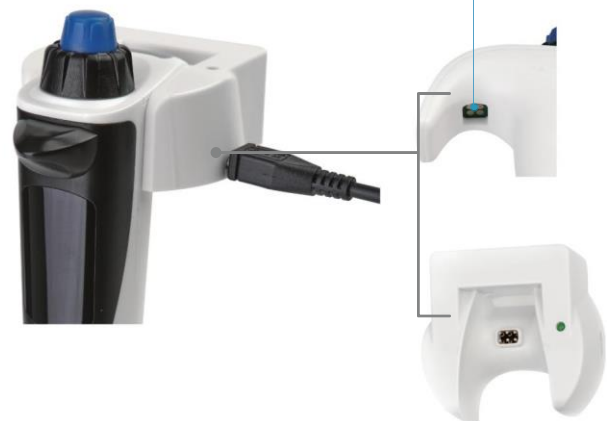
Other function

Pipetting speed adjustment
 Key tone ON/OFF



Labware

Supports dual charging mode



Support automatic Calibration

Connect it to the computer, with the free software provided for calibration

Specifications

8-channel Adjustable Volume Pipettes							
SKU	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
				µL	%	µL	%
ESL58589/8E1	8	0.5-10	0.01	10	±0.20	±2.00	±0.10
				5	±0.20	±4.00	±0.10
				1	±0.08	±8.00	±0.05
ESL58589/8E10	8	10-100	0.1	100	±0.80	±0.80	±0.30
				50	±0.50	±1.00	±0.40
				10	±0.30	±3.00	±0.20
ESL58589/8E15	8	15-300	1	300	±1.80	±0.60	±0.90
				150	±1.50	±1.00	±0.75
				15	±0.60	±4.00	±0.15
ESL58589/8E3	8	30-300	1	300	±1.80	±0.60	±0.90
				150	±1.50	±1.00	±0.75
				30	±0.90	±3.00	±0.30



PCR Thermal Cycler Basic ESL58602

Features

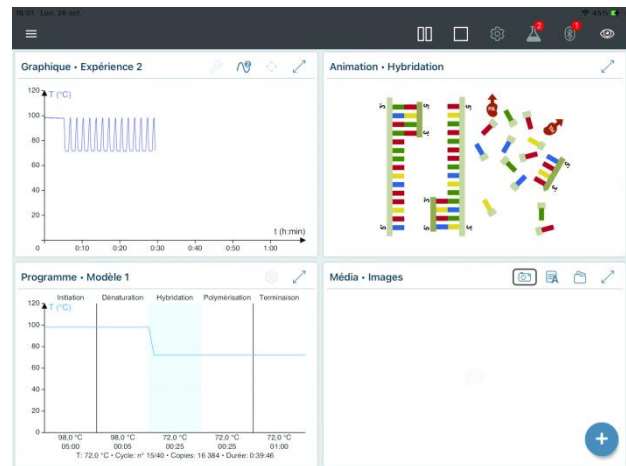
- 3 driving modes
- From the display screen, PC, or tablet. Modifying, creating, deleting, programming is simplified and infinitely customizable.
- From 5 °C to 100 °C in a few seconds!
- Amplification times are short (25 to 70 min) because the thermocycler benefits from a Peltier effect module. It also has a sample conservation mode at 4 °C at the end of the amplification. CE standards compliant.
- Free PCR software to download
- - Real-time monitoring (progress, cycles, duration)
- - Counter for the number of theoretical copies
- - Animation synchronized with the cycle progress
- Experiment files and educational videos available

Technical Parameters

Sample volume	0.2 mL
Maximum number of customizable programs	Unlimited
Screen	128 x 64 mm
Display accuracy	0.1 °C
Number of blocks	1
Temperature accuracy at 55 °C	±0.2 °C
Max number of programs stored	8
Dimensions (L x W x H)	225 x 140 x 100 mm
Temperature scale	1 to 99 °C
Number of samples	16
Heating rate	3 °C/s
Bluetooth data transfer,	USB cable



Thermocycler with screen and knob for displaying and programming cycles.
Supplied with control software for PC or tablet to download.



Labware

PCR Thermal Cycler Basic System Complete Package ESL58602SET

The package consists of:

- 1 didactic 16-well PCR thermocycler ref. ESL58602,
- 1 electrophoresis tank with trans illuminator ESB52162 and 1 micropipette 2/20 µl ref. ESL58575
- 1 PCR Express DNA replication kit ,
- 1 micro-centrifuge DLAB ® D1008 7000 Trm ref. ESL58503,
- 1 refrigerated rack for PCR micro tube ref. ESL56950,
- 1 rack of 96 pipette tips 0-200 µl ref. ESL556956R

Auto Pipettes Single Channel
ESL58575



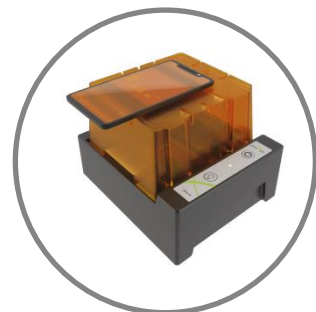
Rack of 96 Pipette Tips 0-200 µl
ESL556956R



Micro Centrifuge
ESL58503



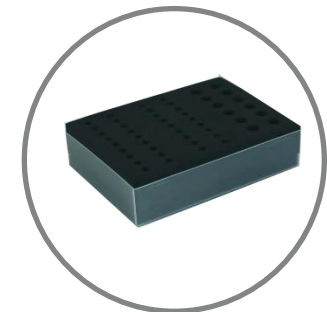
Electrophoresis System
ESB52162



PCR Thermal Cycler Basic
ESL58602S



Refrigerated Rack for PCR
ESL56950



Thermal Cycler Regression ESL58603G

Thermal Cycler Regression Advance ESL58603GA

Thermal Cycler Standard ESL58603S

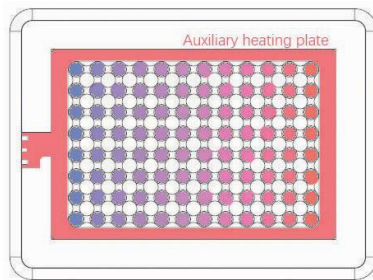
Thermal cycler is essential laboratory instrument in the field of molecular biology research such as sequencing, gene cloning, gene expression, mutagenesis applications and applied market like drug discovery, agriculture, food industry, etc.



Excellent temperature uniformity



Gradient function



Features

- High performance long life Peltier and independent control circuits for different heating segments implement accurate temperature control
- Auxiliary heating mechanism diminishes the "edge effect" and enhance the temperature uniformity
- Wide touchdown PCR temperature range (-9.9°C~+9.9°C) and Long PCR time range (-9min59s~+9min59s)
- Gradient temperature setting supported, optimizing temperature easily in the single run
- User friendly interface on 7 inch color touch screen enable you edit the program very simple
- The PCR touch screen pen improves the operation experience and reduces the cross contamination risk



More features

- Wide options of consumables common PCR tubes, 8-well PCR strips and 96-well PCR plates can be used
- File customization, multi-file storage
- Power-off protection function, automatic program recovery
- Hot lid auto-off function: If the module temperature is lower than 30°C, the hot lid function will automatically turn off



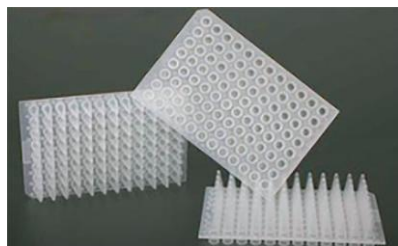
LCD touch panel



Excellent temperature accuracy



Labware

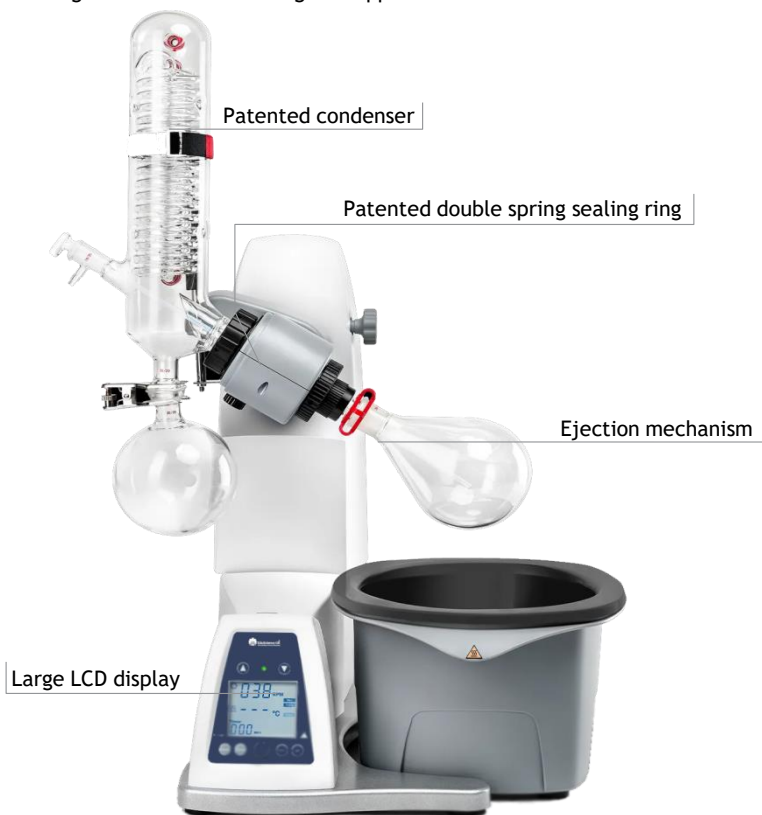


Specifications	ESL58603G	ESL58603GA	ESL58603S
Sample Capacity	96 ×0.2 mL PCR tube - 12 ×0.2 mL PCR-8 strips - 0.2 mL 96 PCR Microplate		
Heating Temperature Range /°C	4-105	4-105	0-105
Lid Temperature Range /°C	30-110	30-110	30-115
Temperature Display Accuracy /°C	±0.1	±0.1	±0.1
Temperature Display Accuracy@55°C	±0.3	±0.3	±0.1
Temperature uniformity@55°C	<0.3	<0.3	±0.2
Max. Heating/Cooling Rate	5°C/Sec	5°C/Sec	5°C/Sec
Gradient Temperature Setting Range /°C	-	30-99	30-105
Gradient Range /°C	-	1-42	1-42, enter 0 to turn off the gradient.
Temperature control method	Block/Tube	Block/Tube	Block/Tube
Adapter block material	Aluminum	Aluminum	Aluminum
Display	7"LCD 800×480	7"LCD 800×480	7"LCD 1024×600
Input	Touch panel	Touch panel	Touch panel
Computer host system	-	-	Yes
Communication interface	-	-	USB, WIFI
User defined file system	Max.30 segments 99 cycles, and storage for over 200 files		20000+ (USB FLASH)
Power off protection	Yes	Yes	Yes



Digital Rotary Evaporator ESL58609

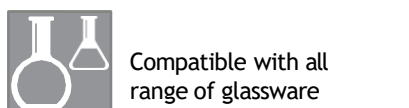
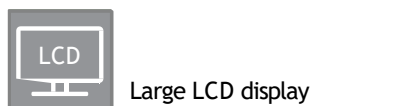
LCD Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation. It offers an excellent distilling solution in a wide range of applications.



Features

- Digital display of both rotation speed and heating temperature allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- 5L heating bath with wide temperature range from room temp. to 180°C, Water/oil heating mode can be changed only through a switch
- Overheating protection temperature at 220°C
- Boil-dry protection, automatically power off if heating without water/oil in the heating bath
- Speed range from 20 to 280rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Patented condenser (cooling surface 1700cm²) with excellent cooling effect
- Ejection mechanism ensures easy removal of evaporating flask
- Patented double spring sealing ring made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission
- Optional glassware with explosion proof film available.

ESL58609



Specifications	ESL58609
Motor Type	Brushless DC motor
Speed Range	20-280rpm
Display	LCD(speed, temperature, time)
Clockwise and Anti-clockwise	Yes
Heating Temperature Range	Room temp. to 180°C
Control Accuracy	water: + 1°C oil: + :3°C
Heating Power	1300W
Stroke Displacement	automatic 150mm
Timer	Yes
Time Setting Range	1-999min
Dimension[DxWxH]	465x457x583mm
Weight	15kg
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%RH
Protection Class	IP20
USB Interface	Yes
Voltage/Frequency	100-120/200-240V50/60Hz
Power	1400 W



NEW

Lab Refrigerator

Appliances

Pharmacy & Lab Refrigerator (+2/25C)

Temperature setting range +2 to +15 °C
 Gas: environmentally friendly R290 gas
 Exterior: White skin plate metal sheet
 Interior: Stainless steel AISI 304 for perfect hygiene
 CE certified. Company have ISO 9001:2015 certification
 2 year warranty on parts
 Forced air cooling circulation
 Automatic defrost
 Extra probe for product temperature simulation
 Inbuilt data logger, that creates a pdf file with temperature graphics and alarms. USB for data retrieval
 Battery back up to keep controller and alarms working for at least 26 hours after power failure
 Safety thermostat to prevent temperatures to go below 2 degrees.

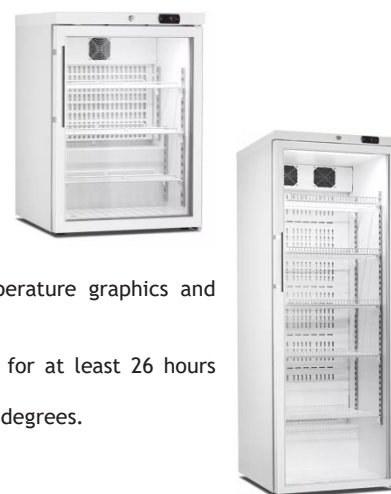


Labware

SKU NO	Ext.Dimn.	Int.Dimn.	NO. Shelves	Vol
ESG59027	W600 x D600 x H835 mm	W480 x D410 x H690 mm	2 + 1	122 Ltr
ESG59028	W600 x D700 x H1510 mm	W480 x D500 x H1358 mm	5	324 Ltr
ESG59029	W600 x D700 x H1865 mm	W480 x D500 x H1724 mm	5	416 Ltr
ESG59030	W720 x D840 x H2020 mm	W560 x D665 x H1440 mm	4	535 Ltr

Pharmacy & Lab Refrigerator (+2/25C) Glass Door

Temperature setting range +2 to +15 °C
 Gas: environmentally friendly R290 gas
 Exterior: White skin plate metal sheet
 Interior: Stainless steel AISI 304 for perfect hygiene
 CE certified. Company have ISO 9001:2015 certification
 2 year warranty on parts
 Forced air cooling circulation
 Automatic defrost
 Extra probe for product temperature simulation
 Inbuilt data logger, that creates a pdf file with temperature graphics and alarms.
 USB for data retrieval
 Battery back up to keep controller and alarms working for at least 26 hours after power failure
 Safety thermostat to prevent temperatures to go below 2 degrees.



SKU NO	Ext.Dimn.	Int.Dimn.	NO. Shelves	Vol
ESG59027G	W600 x D600 x H835 mm	W480 x D410 x H690 mm	2 + 1	122 Ltr
ESG59028G	W600 x D700 x H1510 mm	W480 x D500 x H1358 mm	5	324 Ltr
ESG59029G	W600 x D700 x H1865 mm	W480 x D500 x H1724 mm	5	416 Ltr
ESG59030G	W720 x D840 x H2020 mm	W560 x D665 x H1440 mm	4	535 Ltr



Flake Ice Maker

ELS-625FS
ESL-625F
ESL-625

- Flake Type Ice Maker
- Full Automation
- Screw Turbine Level



Flake Ice Maker		ESL-625FS	ESL-625F	ESL-625
Production Day		80 kg	120 Kg	180 KG
Storage Capacity		58 Liter	120 Liter	120 Liter
Compressor		1/3HP ,R404A	1/3HP ,R404A	1/2HP,R404A
Dimension	(In)	345 x 450 x 740 (H)mm	450 x 420 x 6300 (H)mm	485 x485 x510(H)mm
	(Out)	600 x 560 x 740 (H)mm	675 x 560 x 1065 (H)mm	990 x635 x1190 (H)mm
Material	(In)	Stainless Steel	Stainless Steel	Stainless Steel
	(Out)	Stainless Steel	Stainless Steel	Stainless Steel With Powder Coating
Weight		61 kg	83 kg	125 kg
Power		220 V,800,60Hz	220 V,800,60Hz	220 V,1.3KW,60Hz
Ice Type		Flake Type Ice		
Door		Front PC Door		
Saftey Device		Power Circuit Beaker , , Ice Level Sensor, Water Level Sensor		
Accessory		Drain & supply Gose, , Scoop		



ESL-625FS



ESL-625F



ESL-625



Laminar Flow Clean Bench

ESL-700LV

Features

- Micro Processor Control
- Easy Controlling Verifying Operation
- High Efficiency filter minor vibration ,low noise design
- Removable Working Table For Easy Cleaning
- Inflow pre filter installed fro extending life of Hepa filter Meet bio safety level 1.2.3

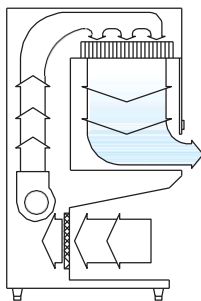


Suction Pump

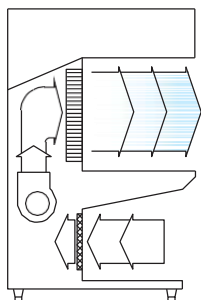
Option



Labware



Vertical air flow



Horizontal air flow

Model	ESL-700 LVN	
type	Vertical air flow type	
Main Control	Microprocessor Control with Touch pad	
Purity	Lower Than Class 100	
Main Filter	HEPA Filtrre (99.99% efficient at 0.3micron particles)	
Pre Filter	Nylon material	
Dimension (WXDXH) (mm)	(In) 1200 x 620 x 7 710	(Out) 1320 X 790 X 1920
Material	(In) Stainless Steel	(Out) Steel plate with Powder Coating
Illumination	30W.F.L X 2EA	
UV Lamp	30W.U.V x 2EA	
Door	Sliding Glass Door	
Power	220V, 3A, 60HZ	



Bio Hazard Safety Cabinet

ESL-801SC - ESL-802SC

ESL-803SC - ESL-804SC

Features

- Micro Processor Control
- Easley Controlling Verifying Operation
- High Efficiency filter minor vibration ,low noise design
- Removable Working Table For Easy Cleaning
- Inflow pre filter installed fro extending life of Hepa filter Meet bio safety level 1.2.3



Suction Pump

Option



Model	EESL-801SC	ESL-802SC	ESL-803SC	ESL-804SC
Dimension (In)	960 X 580 X 670	1160 X 580 X 670	1460 x 580 x 670	1660 x 580 x 670
(WXDXH) (mm) (Out)	1100 X 770 X 2310	1300 x 770 x 2130	1600 x 770 x 2310	1800 x 770 x 2310
type	Bio Hazard Safety Type, Glass II Type			
Main Control	Microprocessor Control with Touch pad			
Winding Velocity	0.3 - 0.5m/sec			
Purity	Lower Than Class 100			
Main Filter	HEPA Filter /0.3 micron 99.99% efficiency			
Pre Filter	Nylon material/ Internal moundted			
Working Table	Easy removable plate			
Material (In)	Working table Stainless Steel SUS 304			
(Out)	Cabinet Steel plate with Powder Coating			
Illumination	40w flurosecent lamp X 2EA			
UV Lamp	40W X 1EA			
UV Timer	15,30,60 min or Hold			
Utility	Air Cock, Gas Cock, Electric Outlets			
Door	Sliding Glass Door, Tempered Safety Glass			
Safety System	Door Limit Alarm			
Power	220V, 2.2A, 60HZ			





More Catalogues

Educational Furniture Catalogue


General Science Catalogue

KG Furniture Catalogue

Biology Catalogue



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