



LAB WARE 20





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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



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



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

ESL56346	Capacity: 25 ML
ESL56347	Capacity: 50 ML



Burette Class AS With PTFE Key Stopcock

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

18 2 18 18 2 6 6 6 6 4 6 6

ESL56348	Capacity: 25 ML
ESL56349	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 Class As

With PTFE Key Stopcock

Un serialized, graduation interval 0.2Ml, tolerance /- 0.1Ml

 ESL56362
 Capacity: 25 ML

 ESL56363
 Capacity: 50 ML

 ESL56364
 Capacity: 100ML



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

Pipette Graduated (Serological), Class B

	Capacity	Subdivision	Tolerance	colour
ESL56373	2 ML,	0.1ML,	- 0.02ML	green
ESL56374	5 ML,	0.1ML,	- 0.02ML	Blue
ESL56375	10 ML,	0.1ML,	- 0.02ML	orange
FSI 56376	25 MI	O 1MI	- 0.01MI	white



Burette Class B

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

ESL56353 Capacity: 25 ML ESL56354 Capacity: 50 ML



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

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







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.

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



Pipette Aid

Pipette aid mad of polypropylene and silicon

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 Volumetric, Class B

 $Volumetric\ flask\ , White\ Polypropylene\ stopper$

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

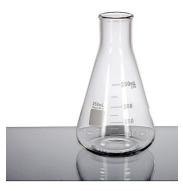


Flask Erlenmeyer Narrow Neck

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

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	OM	20-100ML
ESL56422	250 ML	5ML	50-225ML
ESL56423	500 ML	50ML	100-500ML
ESL56424	1000 ML	50ML	250-1000ML



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 Volumetric Class A

Volumetric Flask Class A , With Polypropylene stopper and Lot Certificate

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 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
FSI 56431	Canacity : 1000 MI



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

ESL56456	Capacity: 250 ML
ESL56457	Capacity: 500 ML
ESL56458	Capacity: 1000 ML





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 1MI, Tolerance /- 0.25MI
ESL56501	Capacity: 50 ML	Graduation Interval 1MI, Tolerance /- 0.25MI
ESL56502	Capacity: 100 ML	Graduation Interval 1MI, Tolerance /- 0.5MI
ESL56503	Capacity: 250 ML	Graduation Interval 1MI, Tolerance /-1MI
ESL56504	Capacity: 500 ML	Graduation Interval 5MI, Tolerance /- 2MI



Measuring Cylinder, Class A, Round Base

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

ESL56480	Capacity: 5 ML
ESL56481	Capacity: 10 ML
ESL56482	Capacity: 25 ML
ESL56483	Capacity: 50 ML
ESL56484	Capacity: 100 ML
ESL56485	Capacity: 250 ML
ESL56486	Capacity: 500 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



Measuring Cylinder, Class B, Hex Base

Measuring Cylinder , Hexagonal base ,Class B,To contain (TC), Single metric , Low 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, Plastic Base.

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

ESL56461	Canacity 10 MI
E3L30401	Capacity: 10 ML
ESL56462	Capacity: 25 ML
ESL56463	Capacity: 50 ML
ESL56464	Capacity: 100 ML
ESL56465	Capacity: 250 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 MI
ESL56533	Capacity: 2000 MI





Beaker Low Form

Beaker low form, With graduation and spot , Made of borosilicate glass $\frak{3}$

ESL56546	Capacity: 50 ml
ESL56547	Capacity: 100 ml
ESL56548	Capacity: 250 ml
ESL56549	Capacity: 400 ml
ESL56550	Capacity: 600 ml
ESL56551	Capacity: 1000 m
ESL56552	Capacity: 2000 m



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 (Euro Design) PP

Autoclavable with Graduation, Material: Polypropylene

ESL56581	Capacity: 100 ml
ESL56582	Capacity: 250 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 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 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 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



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



Pycnometer To Gay Lussac, Calibrated, Class A, 10ml

Pycnometer to gay lussac, calibrated, class a, 10ml, without certificate, with Teflon stopper

ESL56631



Weighing Bottle Ground Squat Form 50X25mm

Weighing Bottles, Ground In Stopper Manufactured from ASTM 438 TYPE 1 boro 3.3 glass 50X25MM





Dessicators With Lid Plain 150 Mm

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

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 Dropping Amber

Amber glass dropping bottles with interchangeable stopper and rubber teat $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

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

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.



Bottle Reagent Autoclavable Screw Cap And Pouring 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.

ESL56644	Capacity: 100 ML
ESL56645	Capacity: 250 ML
ESL56646	Capacity: 500 ML
ESL56647	Capacity: 1000 ML



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	





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



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 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



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

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 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 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 MI	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 PP

 $\label{thm:cond} \mbox{Wide-Mouth Boston Round Bottle-Made of Polypropylene} \ , \ sold \ in packs.$

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 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 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
ESI 56756	Canacity · 20 ITP



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 500Ml

Wash bottles 500ml, Material: polyethylene



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 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



Wash Bottle WM LDPE

ESL56758

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



Evaporating Dishes Ceramic, 70 ml

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

ESL56783



Mortar & Pestle

Pestle & Mortar made of porcelain, maximum temperature up t0 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)

Petri Dish

Petri dish disposable

ESL56788Size: 100 mm x 14 mmPolypropylene autoclavableESL56789Size: 90 mm x 14 mmRadiation sterile vent-ps, 90mmx14mm

ESL56790 Size: 90 mm x 14 mm Radiation sterile non vented-ps, 90mmx14mm





Funnel Analytical PP, 100Mm-Long Stem

Funnels-long stem 100mm, Autoclavable

Material: Polypropylene



Separating Funnel

Separating funnel with glass stopcock and pp stopper Squibb shape

•	9	_				•
ESL56	5807		Capacity:	125 ML	NS	: 29/32
ESL56	5808		Capacity:	250 ML	NS	: 29/32
ESL56	5809		Capacity:	500 ML	NS	: 29/32
ESL56	5810		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

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

Made of porcelain with glazed medium wall supplied with lid

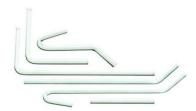
ESL56821	Capacity: 15 ml
ESL56822	Capacity: 25 ml
ESL56823	Capacity: 50 ml
ESL56824	Capacity: 70 ml
ESL56825	Capacity: 100 ml



Crucible Porcelain

Made of porcelain with glazed low wall supplied with lid

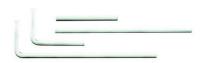
ESL56834	Capacity: 15 ML
ESL56835	Capacity: 20 ML
ESL56836	Capacity: 25 ML
ESL56837	Capacity: 30 ML
ESL56838	Capacity: 40 ML



Tube Delivery, Set Of 6

Different shapes tubes mad of borosilicate glass, outside dia. $6\ \text{mm}$ 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





Tiles Porcelain With 12 Cavities

White, with 12 cavities 22mm diameter.

ESL56852

Glass Stirring RodGlass 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

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



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 dia $\,$

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 dia40 mm
ESL56883	Bristle	Total Length-450 mm, Brush length-150 mm, Brush dia75 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.

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



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

ESL5/020	DIA / CM
ESL57021	DIA 9 CM
ESL57022	DIA 11 CM
ESL57023	DIA 12.5 CM
ESL57024	DIA 15 CM
ESL57025	DIA 18 CM



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



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
FSI 57036	DIA 18 CM



Chlorine Test Strip

E3L3/040	2 1521	0 - 0.5 - 1 - 3 - 5 mg/L Cl ₂ 100 strips/PK
ESL57041	20 TEST	0 - 0.5 - 1 - 3 - 5 - 10 - 20 mg/L Cl ₂ 100 strips/Pk
ESL57042	300 TEST	0 - 25 - 50 - 100 - 200 - 300 mg/L Cl ₂ 100 strips/pk
ESL57043	1000 TEST	0 - 50 - 100 - 250 - 500 - 1000 mg/L Cl ₂ 100 strips/pk



Funnel Analytical PP, 100Mm **Long Stem**

Funnels- long stem 100mm autoclavable material: polypropylene



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	n (length x dia.)



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

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) $22.00 \times (W) 7.00 \times (H) 3.00 \text{ cm}$

Weight: 0.170 kg

ESL57107



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



Stands & Accesories







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

Used to hold objects at stative.

ESL57101	4 Finger Cork Lined	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





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



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



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 120×125 mm.





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



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

polypropylene

ESL57141

ESL57142

ESL57143

Poly-wire blue-Re-enforced nyl

ESL57135	Dia ,13 MM
ESL57136	Dia ,16 MM
ESL57137	Dia ,20 MM
ESL57138	Dia ,25 MM
ESL57139	Dia ,30 MM



Test Tube Stand (Wire Pattern)

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

ESL57129



Test Tube Rack Wooden,

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

12 X 22mm. ESL57144 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 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.





Drying Rack,

ESL57154

Wall mounted corrosion free

ESL57151 20 PEGS ESL57152 30 PEGS ESL57153 48 Pegs ,coated wire

55 Pegs,coated wire

Made of abs material Made of steel / polyester Plastic coated steel, wire tip are PVC coated size 500 x 400 mm

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.



Laboratory Jack

Laboratory jack made of Aluminium

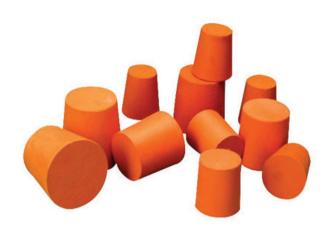
ESL57161	10 X 10 CM	Max. Hight: 18cm
ESL57162	15 X 15 CM	Max. Hight: 25cm
ESL57163	20 X 20 CM	Max. Hight: 28cm



Cork Stopper Bark

Cat. No	Size	Тор	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





Stopper Rubber

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

Cat. No	Тор	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 Tow 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 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





Stopper Rubber Silicon

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

Cat. No	Тор	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



Glass Tube Cutter

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



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







Tubing Connector

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

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.

glass, rack 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).



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



Neoprene Bunsen Burner Hose,

Connect your burner to a fuel source.

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



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	LABTORCH
ESL57369	LAB PORTABLE

Heating

Spirit LampMethylated 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

Bench Mat

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



ESL57398



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

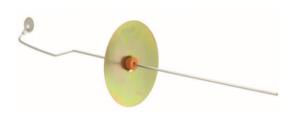


Stirring Bar

Dia 10Mm X H - 250 mm PP.

ESL57397





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



Tube Combustion

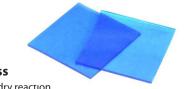
Borosilicate glass, open both ends, for oxidisation and reduction of chemical substances. Length 30 cm.

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 GlassFor potassium dry reaction

ESL57405 SIZE: 7.5 X 5 CM 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.



Litmus Paper

10 books each with 20 strips. Red Pk/200 Strips: Range pH 8-5, colour change.

ESL57415

Blue Pk/200 Strips

Range pH 8-5, colour change.

ESL57417

ESL57419

Neutral Pk/200 Strips

Colour change to red or neutral.

PARAFILM

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



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



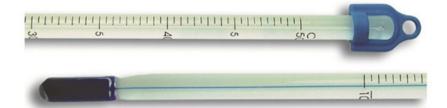


Weight Ring

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



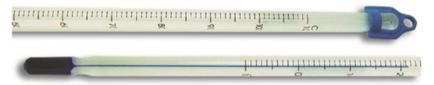


Lab Thermometer

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 $$ 50 $^{\circ}$ C, Division: 0.5 C, Accuracy: $$ /-0.5 C $$ @ 35 C
ESL57545	White bkd blue spirit	Range: -30 to $$ 120 $^{\circ}$ F, Division: 1.0 F , Accuracy: /-0.2 F @ 95F
ESL57546	White bkd blue spirit	Range: -35 to $$ 50 $^{\circ}$ C, Division: 1.0 C, Accuracy: $$ /-1.0 C $$ @ 35 C
ESL57547	White bkd blue spirit	Range: -20 to $$ 110 $^{\circ}$ C &F, Division: 1.0 C&F , Accuracy: /-1.0 C @ 35C
ESL57548	White bkd blue spirit	Range: -20 to $$ 150 $^{\circ}$ C&F, Division: 1.0 C&F, Accuracy: /-1.0 C @ 35 C
ESL57549	White bkd blue spirit	Range: 0 to 260 C&F, Division: 1.0 C&F, Accuracy: /-2.0 C @ 90 C
ESL57550	White bkd blue spirit	Range: 0 to 230 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57551	White bkd blue spirit	Range: -20 to 110 $^{\circ}$ C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57552	White bkd blue spirit	Range: -20 to 110°C, Division: 0.5 C, Accuracy: /-1.0 C @ 35 C
ESL57553	White bkd blue spirit	Range: 0 to 300 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57554	White bkd blue spirit	Range: -20 to 150 C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57555	White bkd blue spirit	Range: 0 to 500 F, Division: 2.0 F, Accuracy: /-0.2 F @ 95 F
ESL57556	White bkd blue spirit	Range: -10 to $$ 260 $^{\circ}$ C, Division: 1.0C, Accuracy: $$ /-2.0 C $$ @ 90 C
ESL57557	White bkd blue spirit	Range: -10 to 210 $^{\circ}$ 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 $^{\circ}$ 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 $^{\circ}$ C, Division: 0.1 C, Accuracy: /-1.0 C @ 35 C
ESL57562	White bkd blue spirit	Range: -1 to 51 $^{\circ}$ C, Division: 0.2 C, Accuracy: /-1.0 C @ 35 C
ESL57563	White bkd blue spirit	Range: -1 to 101 $^{\circ}$ 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 $^{\circ}$ C, Division: 1.0 C, Accuracy: /-1.0 C @ 35 C
ESL57568	White bkd red spirit , Length 305MM	Range: -10 to $$ 150 $^{\circ}$ C, Division: 1.0 C, Accuracy: $$ /-1.0 C $^{\odot}$ 35 C
ESL57569	White bkd blue spirit , Length 305MM	Range: -10 to 200 $^{\circ}$ 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 $$ 150 $^{\circ}$ C, Division: 1.0 C, Accuracy: $$ /-2.0 C $$ @ 35 C
ESL57573	White bkd red spirit , Length 205MM	Range: -10 to $$ 110 $^{\circ}$ 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 $$ 50 $^{\circ}$ C, Division: 0.5 C, Accuracy: $$ /-0.5 C $$ @ 35 C
ESL57575	Red spirit , length 200 mm	Range: -10 to $$ 110 $^{\circ}$ C, Division: 1.0 C, Accuracy: $$ /-1.5 C $$ @ 35 C
ESL57576	Red spirit , length 150 mm	Range: -10 to $$ 110 $^{\circ}$ C, Division: 1.0 C, Accuracy: /-2.0 C @ 35 C
ESL57577	Blue spirit, length 300 mm	Range: -10 to $$ 50 $^{\circ}$ 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 $$ 110 $^{\circ}$ C, Division: 1.0 C, Accuracy: $$ /-1.5 C $$ @ 35 C
ESL57580	Blue spirit, length 200 mm	Range: -10 to $$ 110 $^{\circ}$ C, Division: C 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 $$ 50 $^{\circ}$ C, Division: 0.5 C, Length: 305mm, Accuracy: $$ /-0.5 C @ 35 C $$
ESL57583	Filling : Blue LoTox	Range : -10 to $$ 50 $^{\circ}$ 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 $$ 110 $^{\circ}$ C, Division: 1.0 C, Length: 305mm, Accuracy: /-1.0 C @ 35 C
ESL57586	Yellow Back with Red Spirit Filling	Range : -20 to $$ 110 $^{\circ}$ C, Division: 1.0 C, Length: 305mm, Accuracy: /-1.0 C @ 35 C



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

 $1\,x\,300$ mm un calibrated green filled thermometer

Boxed Dimensions: 334 x 232 x 50mm

ESL57587



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





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 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



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 $^{\circ}$ C for thermometer and 0 to 100% for Hygrometer in plastic case.

ESL57591



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





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 IP65

Battery usage: 1 x AA (Included) CE, ROHS/WEEE: Approved.



Max Min Thermometer Digital Heavy Duty, White

Large Max Min Digital Thermometer

Suitable for outdoor and indoor use in a white casing. Triple display shows minimum, maximum and current temperature simultaneously.

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



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 $^{\circ}$ 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 White Quick-

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



Thermometers

Max Min Thermometer Lidded **Green Push Button**

Furo 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 Magnet 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

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 **Ouick-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





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

/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 14m 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: $228 \times 133 \times 60 \text{mm}$

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 14m 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 Rattery: 1 x 9V (included)

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)





Thermometer Infrared Body Tempreture

Body Temperature Thermometer

Non-contact and hygenic 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 $108^{\circ}F$) - In Surface Temp Mode: 0 to 60 C (32 to 140 F)

Operating Temp: $10 \text{ to } 40^{\circ}\text{C}$ (50 to 104°F) Storage Temp: $0 \text{ to } 50^{\circ}\text{C}$ (32 to 122°F) Accuracy: $/-0.3^{\circ}\text{C}$ (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)

ESL57614



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 Hygenic

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





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)



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)





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 tipresistant base sliding poise for easy zeroing and check rod for support of off-centre load. Capacity 2kg Readability 1g.

ESL57623



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



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 Table Top 2 Pan, Roberval, 2 Kg

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

ESL57627



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



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





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



Spring Balance

balance spring pocket size, moulded in plastic, reading scale on 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 $6 \times AA$ 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 Precession

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 Basic

Scales

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 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





Balance Weight Physical

	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.Polished Brass, supplied with Wooden block, as illustrated.
	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.Polished Brass, supplied with Wooden block, as illustrated.
ESP60081 Capacity 2000Gm		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. Polished Brass, supplied with Wooden block, as illustrated.



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 100 gr (9 Loads), EduScience plated Brass

Material: EduScience Plated Brass

Consists of:

1 x Masses hanger 10g 9 x Slotted Load 10g

Dimension : $2.50 (L) \times 2.50 (W) \times 5.70 cm (H)$

Weight: 0.100g



Slotted Masses And Hanger Brass

Slotted Masses and Hanger 1000 gr (9 Loads), Brass

Masses, disc shape and hanger. Used for many kind of experiments

Total mass: 1000g, accuracy 5%

Material: Brass Consists of:

1 x Slotted Hanger Mass 100g

9 x Slotted Mass 100g

Dimension: 3.70 (L) x 3.70 (W) x 17.00cm (H)

Weight: 1.000kg

ESP60088



Weight Slotted Masses And Hanger,

ESP60085

Slotted 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 of accidentally.

ESP60089	Total 100gm	Set of 9 slotted masses, one hanger each of 10gm.
ESP60090	Total 250gm	Set of 9 slotted masses, one hanger each of 25gm.
ESP60091	Total 1000gm	Set of 9 slotted masses, one hanger each of 100gm
ESP60092	Total 250gm	Set of 4 slotted masses, one hanger each of 50gm
ESP60093	Total 100gm	Set of one hanger 20gm, three slotted masses 20g one mass 10gm and two masses 5gm
ESP60094	Total 250gm.	Set of one hanger 50gm, nine slotted masses 20gm, one mass of 10gm and two masses of 5gm





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



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

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)

 $\label{eq:continuous} Temperature\ Accuracy: \pm 1.0^{\circ}C\ @\ 20^{\circ}C\ (68^{\circ}F), \pm 2.5^{\circ}C\ @\ 300^{\circ}C\ (572^{\circ}F) \\ Display: 3-digit\ LED\ (no\ display\ hold)\ |\ Display\ Resolution: 1^{\circ}C$

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







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

ESL57740



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



Stopwatch Budget

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

ESL57733



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.

ESP59918



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



-RESET-

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 :10?A (Stand-by current)

&12mA (average alarm current)
Electrostatic discharge ESD: /-8kV

Product Dimensions: 55mm x 55mm x 25mm







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 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 0.5 μ S/cm \sim 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



PH Meter Pocket Type

 $\label{power} \mbox{Economy pH tester, meet general requirements, cost-effective.}$

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:
1 point calibration (7.00 pH)

Power:

2 AAA batteries, 1.5V \times 2, more than 100 hours of continuous using

Size and weight: 39×25×176 mm/95g

ESL57747



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.

 $\label{prop:linear} \mbox{Automatically recognize pH buffer solution.}$

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 .





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



Electrode Holder Flexible

Three electrodes can be put into electrode holder that is used with electro-chemistry instrument.

The arc-type bracket of attractive appearance can be turned to any direction and lifted up and down vertically, with the electrode standing vertically anywhere.

The material of holder is ABS, of axis of rotation is stainless steel, which is sturdy and durable.

Base of holder is made up of ABS hull, cast iron counter weight and axis of rotation of stainless steel. All of these lead to professional design, attractive appearance and stability.

hree electrodes can be put into electrode chuck (electrode cap Φ 16 mm)









Conductivity Meteres - Spectrophotometers

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:

 $(0\sim99.9)\mu S/cm(100\sim999)\mu S/cm (1.00\sim10.00)m S/cm$

Resolution: 0.1/1µS/cm:0.01 mS/cm

Accuracy ±1%FS

Temperature compensation: (0~50)°C (Auto)
Automatic Calibration 1 point calibration(1413uS/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 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

Spectrophotometer UV VIS Smart

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ESL57764

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Spectrophotometer Single Beam

Optical System !!!!!!!!!!!! !: Single Beam

Spectral Band Width!!!!! : 1.8 nm (190 to 1100 nm)

Wavelength Range !!!!!!! !:!190 to 1100 nm

X bwf rfiohu !E jtqrbz)tf wjoh*!!;!1/2!on

X bwf rfiohui !Reproducibility! ;!= C!1 /2!on

Qi pupn fusid!Bddvsbdz !!!!!!!!!!! !;!Ç!1/116!bul2/1!Bct Qi pupn fusid!Reproducibility !;!Ç!1/114!bul2/1!Bct

Light Source : Tungsten Halogen Lamp & Deuterium Lamp

(Built-in light source auto interchanging motor)

Standard Cell Holder!!!!!;!Bvupn bujd!Spubsz!uzqf!9.qpt jujpo!N vmj Df mt!!!!!

!!!!!!!!!!! prefs

P qf sbujoh!Tztuf n)P T*!!!;!X joepx t!DF

Qpx fs!Sfrvjsfn fou!!!!!!;211; 351!W461; 71!! {

Overall Dimensions :(W x D x H) 544!n n x 381 mm x 180 mm

Weight: 9!Lh

ESL57763



Photometer Portable Round Cell Holder

Accessory for spectrophotometer

ESL57769



Spectrophotometer Double Beam UV VIS

Optical System Double beam optics

Spectral Band Pass Width(nm) < 1.0

Wavelength range(nm) 190~1100

Accuracy(nm) : $< \pm 0.3$ (at D2 Peak 656.1nm, 486.0nm)

Reproducibility(nm) $< \pm 1.0$

Setting(nm) 0.1

Slew rate(nm/Min) about 5000

Scanning speed(nm/Min) maximum 3000

Photometric

Spectrophotometers

Range(Abs) -4.0 ~ 4.0

Accuracy(Abs) ±0.004 (at 1.0), ±0.002 (at 0.5)

Reproducibility(Abs) ±0.002 (at 1.0), ±0.001 (at 0.5)

Stray light(%T) 0.05 (220nm, 340nm)

Baseline flatness(ABS/h) $< \pm 0.001$ (at 550nm)

Baseline Flatness(ABS) $< \pm 0.001$ (200 ~ 1100 nm)

Noise Level(A) < 0.001

Drift(A/hr) 0.002 (at 340nm)

Monochromatic Modified Czerny-Turner type with 1200 lines/mm

blazed Grating

Light Source Tungsten-Halogen Lamp & Deuterium Lamp

Lamp Change Wavelength 340~410 (Default 370), include Auto Position

Standard Cell Holder Automatic Rotary type 8-position Multi-Cell Holder

Interface Ports USB, Serial ports, Parallel ports

Power Requirement Free Voltage

Overall Dimensions: (mm) 600(W)x400(D)x250(H)

Weight: 16kg(Only Main System)

ESL57765

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 ± 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 Cell Holder Cover

Accessory for photometer portable mini



Spectrophotometer

ESL-1000VI /ESL-1000UVI/ESL-1100VI/ ESL-1000VIU

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.



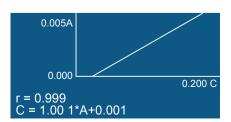
Features

- **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. (ESL-1100UV/ESL-1100UVI)
- Large sample compartment: To accommodate 5–100mm path length cuvettes with optional holders. A variety of optional accessories are available

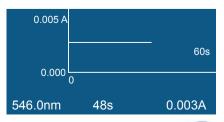
Basic Mode

546.0	nm	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	ESL-1000UV	ESL-1000UVI	ESL-1100UV	ELS-1100UVI
Optical System	Single Beam	Single Beam	Single Beam	Single Beam
Light Source	Tungsten lamp	Tungsten lamp & Deuterium lamp	Tungsten lamp	Tungsten lamp &Deuteri- um 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	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%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	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%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 pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength 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, 120W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W
Dimension(L×W×H)	490×360×210mm	490×360×210mm	490×360×210mm	490×360×210mm
Weight	12kg	14kg	12kg	14kg







Cat. No. 18900337 Micro Cell holder



Cat. No. 18900340 8-position auto cell changer (for ESL-1100UV&ESL-1100UVI)



Cat. No. 18900331 4-cell holder for 10mm squ.cuvette



Cat. No. 18900332 4-cell holder for 10mm to 50mm squ. cuvette



Cat. No. 18900333 4-cell holder for up to 100mm squ.cuvette



Cat. No. 18900338 Test tube holder(ø8-ø22mm)



Cat. No. 18900334 cylindrical cell holder(ø16mm)



Cat. No. 18900339 solid sample holder (ø1.5-3mmø1 position)



Cat. No. 18900335 10mm water-jacketed 1 cell holder (for ESL-1100UV & ESL-1100UVI)



Cat. No. 18900336 10mm water-jacketed 4-cell holder (for ESL-1100UV & ESL-1100UVI)



Square cuvettes glass/quartz 1-5mm/10-100mm

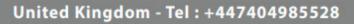


Cat. No. 18900341 12V20W halogen lamp



Cat. No. 18900342 Milas deuterium lamp,10V,300mA, 30W (for ESL-1000UV&ESL-1100UV)





Disc Polarimeter

ESL-P1



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)x400(H)mm

Options

Cat. Number	Descriptions
POL11001	Poalrimeter Tube 100mm
POL11002	Poalrimeter Tube 200mm
POL11003	Sodium Lamp 589nm





ESL-R03AR Series Abbe Refratometer

ESL-R03

Model "ESLR03" 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 solide 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
- \cdot 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
ECI DOS	Brix	0-95%	±0.1	0.25%
ESLR03	Refractive Index	1.3000-1.7000nD	±0.0002nD	0.0005nD







Flexible Desk Lamp

Versatile flexible neck

- Metal and plastic construction
- Integral on/off switch
- Height: 340mm approx

ESL57877



Lamp Bulbs, Round

M.E.S. Cap, 1.25V

ESL57890

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

 $\textbf{Dimension:}\ 14.00\ (L\)\ x\ 9.00\ (W)\ x\ 2.00cm\ (H)$

ESL57889

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)₃ PK OF 10 ESL57881 (12V- 36W Axial lamp), PK OF 10 ESL57882 (12V - 24W Axial lamp), PK OF 20



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

Lamp Bulb E 10, 2.5V/0.5A (10 pcs/pack)

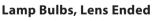
Voltage: 2.5V Ampere: 0.5A

Packaging: 10pcs/pack

Dimension: 14.00 (L) x 9.00 (W) x 2.00 cm (H)

Weight: 0.013kg





2.2V, 0.25A, lens ended, M.E.S. Cap.





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 \times H \times W): 165 \times 35 \times 41 mm.

ESL57898

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

Manufactured in the Uk



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

ESL57899

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: $1.5V \sim 4.5V$, 0.2/ESP59129 Power requirements: $3V \sim 6V$, 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



LJLJ705

Copper Wire

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

ESL57928	500g roll - 14 SWG (12 AWG) - $0.08^{\prime\prime\prime\prime}$ (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 $^{\prime\prime\prime\prime}$ (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/cm^3

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.

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





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



Crocodile Clip Pk/10

Crocodile clip without sleeve Pk/10

ESL57955



Crocodile Clip With Plastic Sleeved Red 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, Red Colour

ESL57956



Crocodile Clip With Plastic Sleeved Black 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

Length 75 cm, Black

Length 100 cm, Red

Length 100 cm, Black

Safety Socket For Banana Plugs

ESL57910

ESL57919

ESL57920

ESL57921

Safety socket 4mm for Banana plugs in improved design.

ESL57911	Fdc
ESL57912	Yellow
ESL57913	Green
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





Water Bath Thermostatic Digital

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 emp	Internal: 500w x 300d x 150h mm otyling an accessory tap can be added for convenience.

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
		Dimension : s (mm) Overall - 362w x 332d x 290h / Working - 325w x 300d x 200h Electrical supply: 230v
		Power consumption: 2500w
ESL58197	Capacity: 18 Ltr	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 Trav and NE1B-18W





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. I illuminated on/off power switch and heater indication lamp Bath fitted with non-slip rubber feet.

Temperature

ESL58199

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

Capacity: 28 Ltr Capaci

Electrical / power supply: 120v or 230v models available / 1250w





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 ±0.1°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: 361 w 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"
		" Dimension : s External: 537w x 332d x 170h mm
ESL58201	Capacity: 22 ltr	Internal: 395w x 298d x 150h mm
		Capacity Nominal Tank Capacity: 22 Litres"





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 temperate, 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

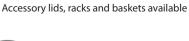
Dimension: s (mm) Overall - 332w x 185d x 135h / Working - 300w x 150d x 65h

Electrical / power supply: 120v or 230v models available / 200w

All models have 3 year warranty

Complete with shelf for good water circulation

UK manufactured







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^m 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 $+ 5^{\circ}\text{C} - 99^{\circ}\text{C}$ Temp. setting: Turn dial pointer Stability/uniformity: $\pm 0.5^{\circ}\text{C}/\pm 0.5^{\circ}\text{C}$

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





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^M 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: \pm 0.25°C/ \pm 0.1°C

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

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





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

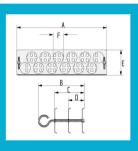
Test Tube Rack Stainless Steel 12 X 32mm

Test tube rack stainless steel 12 x 32mm

ESL58211

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

- $\bullet \ \, \text{Frequency: 53KHz} \,, \\ \bullet \ \, \text{Heating: No, } \bullet \ \, \text{Degas: Yes, } \bullet \ \, \text{Timer (minute): 1-99, } \bullet \ \, \text{Housing: SUS304,}$
- 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

The water bath is widely used for the day to day bacteriological and laboratory applications requiring incubation as well as general tests and procedures in variety of research and testing laboratories. Water baths also have a variety of usages in tissue culture application, enzyme reaction studies, growth observation studies, Fermentation analysis and various other general and specialized application in various laboratories.



ESL-20S

Water Bath

Features

- 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





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



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.

Dimension : s (mm) Overall - 200w x 100d x 180h / Working - 190w x 85d x 60h

Electrical / power supply: 120v or 230v models available / 60w

ESL58205 Capacity: 1 ltr Ultrasonic effective output: 30w

Ultrasonic peak power / frequency: 240w / 38kHz

Accessory basket: BSK-1

Dimension :s (mm) Overall - 365w x 278d x 321h / Working - 300w x 240d x 200h

Electrical / power supply: 120v or 230v models available / 800w

ESL58206 Capacity: 12 ltr Ultrasonic effective output: 200w

Ultrasonic peak power / frequency: 800w / 38kHz

Accessory basket: BSK-12





Drying Cabinets

Fitted with toughened glass doors.

Drying Ovens

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

ESL58255	Capacity: 113 LTR	Shelves supplied is 2 shelves,External dimension (mm): 545 x 730 x 360 Internal dimension (mm) 460 x 728 x 341
ESL58256	Capacity: 226 LTR	Shelves supplied is 3 shelves, External dimension (mm): 652 x 928 x 449 Internal dimension (mm): 567 x 926 x 430
ESL58257	Capacity: 540 LTR	Shelves supplied is 3 shelves, External dimension (mm): 1550 x 581 x 600, Internal dimension (mm): 1650 x 583 x 610



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). Capacities: 150 Litres

Temperature range: 40 C to 250 ° C Interior : CLAD coated steel

Circulation: Fan assisted and extract unit

Output vent: for 50mm opening/diameter tubing Temperature control: direct reading hydraulic Safety: Thermostat with warning indicator.

CE compliant.

ESL58262



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 ° C oven or steriliser making it the obvious cost-effective solution for many laboratories.

Capacities: 150 Litres

Optional/Extras: Can be fitted with: Digital controller, and/or a run back timer Stainless steel chamber

PID Digital control & readout (DIG)

Dial thermometer readout

Programmable timers. CE compliant.







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





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,

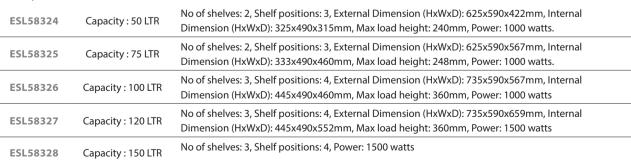
Sterilizer Hot Air

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.







Compact Incubator

I-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.

Specifications

Heating Gravity Convection (ESL-10T)

Forced Convection (ESL-30T)

Temp. Range ambient + 5 °C ~ 50 °C

 $\begin{tabular}{lll} \mbox{Accuracy} & \pm~0.2~^{\circ}\mbox{C at }37.0^{\circ}\mbox{C (JSGI-10T)} \\ \mbox{Uniformity} & \pm~0.5~^{\circ}\mbox{C at }37.0^{\circ}\mbox{C (JSGI-10T)} \\ \end{tabular}$

Control Microprocessor PID Control

Auto START / STOP Timer

Sensor Class A Pt-100

Safety Over-Temperature Cut-Off

Over Current Cut-Off

Material Body: Epoxy Powder Coated Steel

Chamber: Stainless Steel 304
Inner Glass Door (*JSGI-30T only*)
Including PVC Coated Wire Shelf

Electric $220 \pm 10\%$ VAC 50/60Hz 1-Phase

Plug config.



or



Control Accuracy

- \star ± 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





General Incubator

Models: ESL-701GI, ESL-702GI, ESL-703GI,

ESL-705GI, ESL-706GI, ESL-707GI



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
$(W \times D \times H) (mm)$	(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 Ran	ge	Ambient +5°C to 6	50°C		'		
Accuracy		+/- 0.1°C					
Temperature con	trol	Digital PID Contro	ller				
Timer		99hr 59Min					
Thermocouple		ΡΤ 100Ω					
Material (In) (Out)		Stainless steel					
		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					





Shaking Incubator

Model ESL-8480SF ESL-8480S



Main Feature

- 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	15℃ to 60℃	Ambient +5°C to 60°C		
Weight	81Kg	66Kg		
Power	220V, 4.5A , 60Hz	220V, 1.8A, 60Hz		
Temp. Controller	Digital P.I.D. contro	Digital P.I.D. controller		
Speed Range	10 - 350 RPM			
Display	LED Display	LED Display		
Drive system	Beltless direct drive			
Motor	Brushless D.C.Moto	Brushless D.C.Motor K-type		
Circulation Fan	3.5" convection fa	3.5" convection fan x 2EA		
Dimension (IN)	510 x 530 x 400(H)	510 x 530 x 400(H)mm		
(OUT)	515 x 730 x 720(H)	mm		
Lid	Acrylic Blue	Acrylic Blue		
Safety Device	Over temp.Protecto	Over temp.Protector, Door detector		
Standard plate	250ml x 25EA	250ml x 25EA		

Light Bank Model

Model	ESL-8480SFL	
Light Bank	40W CL x 1 Unit	
Light Control	24Hr. Photoperiod program	



Plate of Flask

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



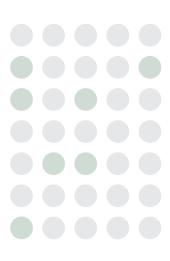






Shaking Incubator Model ESL-8480SR

Less Gas-Consuming & Space-saving compact INCUBATOR





Main Feature

- 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 ("-L" Model)

Shaking Incubator	ESL-8480SR
Temp. Range	10° ℃ to 60° ℃
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
	<u> </u>

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







ESL-9170CT / 9170GCT

CO₂ Incubator / CO₂, O₂ Incubator



7" Touch Screen

CO₂ Incubator





Main Control	Touch Screen Controller		
Display	7" Color LCD		
Temperature Range	RT +5°C to 50°C, ±0.1°C at 37°C		
CO ₂ Range	0 to 20%, ±0.1% at 5%		
CO ₂ Sensor	Dual-Beam Non Dispersive Infra-red Sensor		
Humidification	Up to 96% RH at 37℃		
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	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 Filter Unit, Flow Meter		

ESL-9170CT

CO ₂ / O ₂ Incubator	ESL-9170GCT	
O ₂ Range	0.1 to 20.9%, ± 0.1% at 5%	
O2 Sensor	Industrial Oxygen Sensor	
02 3611301	ilidustriai Oxygeri Serisoi	
Cooling System	ESL-9170CT-R (Option)	

98kg

220V, 5A

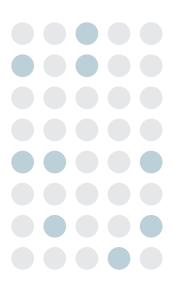




Net Weight Power

Vacuum Oven

Model ES-1202V5





Main Feature

- Uses for drying moisture, condensing, deairing, 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).

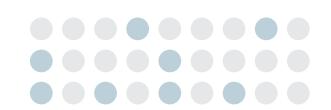
Vacuum Oven

Model	ES-1202V5	ES-1202V6		
Dimension (IN)	300 x 300 x 300(H) mm	400 x 400 x 400(H) mm		
(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 2	00 °C		
Temp. Controller	emp. Controller Digital P.I.D. controller			
PID Setting	Auto-tuning	Auto-tuning		
Display	LED display	LED display		
Material (IN)	Stainless steel			
(OUT)	Steel plate with power	der coating		
Valve	Vacuum valve, Purge	e valve		
Vacuum gauge	Mechanical type			
Door	Silicone packing do	Silicone packing door with Large window		
Shelves	AL material, 2EA	AL material, 2EA		
Safety device	Exclusive over temp.	Exclusive over temp. protector, Power Breake		
·	·	·		

Option











Anaerobic Incubator ESI- A1Series





Anaerobic Incubator

Anaerobic Incubator ESI-A10

Anaerobic IncubatorESI-A10 is a workstation especially designed to culture anaerobic micro-organisms for various studies. Features micro-computer contros sym, UV sterilizer, stainless steel chamber, latex gloves, tough front glass window, de-oxidizaticant alyst, leakage protection etc. to ensure anaerobic environment while working along with oper tor's safety. Within 5 min anaerobic environments created in the cultivation chamber while it takes less than 1 hr for the operation chamberIt is used in microbiology labs, oil industry, soil research etc.

Anaerobic Incubator ESI-A11

Anaerobic IncubatorESI-A11 is a workstation especially designed to culture anaerobic micro-organisms for various studies. Features Siemens Programmable Lo@iontroller, UV sterilizer, stainless steel chamber, latex gloves, tough front glass windowe-oxidization catalyst, leakage protection, USB interface etto ensure anaerobic environment while working along withoperator's safety. Within 5 min anaerobic environments created in the cultivation chamber while takes less than 1 hr for the operation chambert is used in microbiology labs, oil industry, soil research etc.

Features

- High-precision microcomputer control systeto display accurate temperature inside the incubatorESI-A10
- Siemens PLC for High-performance ESI-A11
- · High-precision temperature sensor and oxygen senstorensure accuracyESI-A11
- High-precision temperature control module and analog moduteensure stability ESI-A11
- UV sterilizer for effectivele-contamination
- Solenoid valve switch controlo adjustand input essential gas
- Cultivationand operation chamber made fstainless steel
- Impact-resistant front glass window for easier observation
- Deoxidization catalyst in operation room
- Double door for cultivation chambeto add more petri plates
- · Latex gloves, Leakage protection, Over-heating alarm for user safety
- Caster wheels for easiertransport



Anaerobic Incubator ESI-A1 Series

- LCD screento view parameter and button press keypato pre-set valuesESI-A10
- LCD screen to view parameter and touch screen control panel ESI-A11
- 2 shelvesand 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 deviced inoculating rod sterilize ESI-A11
- USB interface provided to transfer data ESI-A11
- Stores 6 months dataESI-A11

Applications

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

Specifications

Model No.	ESI-A10	ESI-A11	
Control System	Microcomputer control system	Microprocessor control system + Siemens PLC	
Display	LCD display with button- press keypad	LCD display withtouch 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)	



Anaerobic Incubator

Specifications

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	





Water Still 4 Ltr /Hour Borosil Basic Plus

Cap: 4 Itrs / 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 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 \times L \times W): 600 \times 190 \times 190 mm

ESL58353



Water Still 4 Ltr /Hour Borosil Basic

Water still borosil basic designed for reliable continuous operation incorporating a host of features unmatched by comparable stills. It is easy to use, safe to operate, thoroughly reliable and above all Low Cost. 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 ($W \times D \times H$) 50 cm \times 15 cm \times 45cm, 50 cm \times 20 cm \times 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. $(0.2 \times 105 \text{ NM-2})$ ldeal for general Laboratory use-capable of producing pyrogen free water.

Output 4 lit/hr

Conductivity (using raw water) 3.0 – 4.0 μ S/cm Conductivity (using treated water) 1.5 – 2.0 μ S/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. Approx.

ESL58354



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.





Water Still 4 Ltr /Hour Borosil Silica Heater

Single Water Distillation Unit with 3 KW

Silica Heater, Cap: 4 ltrs / hr.

Features:

Gate Value 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 Fume Extractor Cabinet

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.

This unit exhaust air through a flexi-duct externally to the atmosphere. Although, it's a ducted fume extractor, you don't need to have a special vent to use the BV930H-D. Its flexi-ducts can be fitted to a normal domestic vent or placed on a partially opened window.

it also provides operators with a safe workstation, as handling of all the potential harmful chemicals is done within the hood enclosure in front of the intake filter area. For artwork applications, the enclosure can accommodate a standard A1 drawing boards, which will git at an angle so the unit captures the overstay efficiently, keeping the surrounding working area clean.

it is designed for immediate operator protection. If outside venting isn't possible, ES also offers re-circulatory fume cabinets such as the and BV930H-C. Both units have higher filtration specifications.

Applications

The ducted fume extractor cabinet 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, Hazardous powders & particulates.





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

it is ideal for use with spray adhesives, conformal coatings and paints, monomers, hazardous powders and particulates, resins, sealants, solders, light grinding particles, organic solvents and cleaners etc.

All handling and/or use of potentially harmful substances is carried out within the hood enclosure in front of the intake filter area. For artwork applications, standard A2 drawing board can be placed within the hood enclosure. The board fits at an angle for efficient overspray capture.

These fume cabinets are designed for immediate operator protection whereby 'large' particulates (> 5 microns) are filtered out and 'fine' particulates (<5 microns) together with odours, gases, vapours and fumes within the hood enclosure are exhausted to atmosphere via the flexi-duct(s)

The Flexi-duct can be fixed to a standard domestic vent or simply placed through a partially open window to facilitate portability and/or convenience. Key Features, Can accommodate standard drawing boards, Clear polycarbonate panel for protection Hood lighting

ESL58386



Ducted Spray Booth

It is ideal for applications that include filtration of aerosol adhesives (glue booth for spray mounts), aerosol lacquers and fixatives and airbrush sprays applied to artwork up to A1 size. A1 drawing boards can be placed into the hoods at an angle for efficient over-spray 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.

These cabinets are designed for studio / classroom / workshop cleanliness and for immediate operator protection whereby 'large' particulates (> 5 microns) are filtered out and 'fine' particulates (< 5 microns) together with odours, gases, vapours and fumes within the hood enclosure are exhausted to atmosphere via the flexi-duct(s).

Key Features

For artwork applications, standard A1 drawing boards can be placed within the hood enclosure. The boards fit at an angle for efficient overspray capture.

3D items, models, printed circuit boards etc. may be placed onto the hood base for spraying, cleaning, sanding, gluing etc. The Flexi-ducts can be fixed to a standard domestic vent(s) or simply placed through a partially open window to facilitate portability or convenience.

With the aid of a "Y" piece the 2 ducts can be placed through one hole in the wall.

Why choose the glue booth extraction unit?

The BV100H-D hood mounted extraction unit, like all ES filtration and extraction systems carries a lifetime guarantee. The unit has been designed to make sure it's quiet in operation and can be assembled in seconds. Simply place onto a desk, bench or trolley and then plug in and switch on to start extracting particulates from applications like glue overspray and aerosol adhesives.

How does it filter harmful substances and solvent?

ESL58390



Particle Filter Ifa2p (Pack Of 6)

ack of 6 particle filters IFA2. For general spray and dust particle capture





Hood Mounted Filtration Cabinet

Hood mounted filtration cabinet with a high-efficiency carbon filter specifically designed to provide local exhaust ventilation in areas where it's not possible to use ducted level unit or fume filtration cabinet. Applications:

The is for use in areas where external venting is impractical and hydrocarbon vapour and gas filtration is necessary. This unit is capable of filtering fumes, vapours and particles from:

Electrochemical (cleaning solvents, conformal coatings, etc.), Resins, Sealant and adhesives both in aerosol and static form Solder pots and soled irons.

The is also used in orthopaedics and dental laboratories to control staff exposure to methyl methacrylate and cyanoacrylate adhesives. It's also used to for safe weighing of hazardous powders.

Key Features of:

Clear polycarbonate panel for protection Hood lighting, Large capacity making it ideal for a wide range of uses, What's included with the ? Filter unit with fan(s), Hood Enclosure, Hood Light, Polycarbonate hinged front panel ,1 x Particulate filter, 1 x Activated Carbon Filter, Power Lead, Data/Warranty Booklet

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



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







Spray Booth

it is a general purpose hood mounted filtration cabinet and workstation for light aerosol spray and airbrush use and fume/vapour absorption 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.

its Applications:

Suitable for art and graphics, hobbies, modelling and craft application. It will extract fumes and filter particles created by:

it includes, Aerosol Adhesives, Lacquers, Fixatives, Airbrush Sprays, Solders, Light Grinding, Key Features

A2 or A1 drawing boards can be placed into the hoods at an angle for efficient over-spray 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.

ESL58409



High Efficiency Filter Cabinet

High-efficiency filter cabinet with acrylic capture shield to contain and filter within dental labs, electronic design, pharmaceutical labs, and classroom environments.

It includes:

Filter unit with fan(s)

Acrylic Spray Shield

1 x Particulate filter

1 x Activated Carbon filter

Power Lead

Data/Warranty Booklet

Application:

it is suitable for use in numerous situations where external venting is impractical but where contaminant capture and filtration is necessary. This includes the filtration of fumes, vapour and particulates emanating from: Monomers, adhesives, hazardous powders/particulates, conformal coatings, resins, sealants, solders, light grinding particles and dusts, organic solvents etc.

The folding PETG shield can be stored if not required thus reducing the unit footprint considerably. Handling and / or use of potentially harmful substances is carried out in front of the intake filter area. Cleaned air is vented to the top rear of the units .

Key Features, Folding clear petg plastic fume shield, Carry handle, ,Sturdy steel construction





Hot Plat Pro

Max. Heating temperature is 380°C, High resolution LCD displays actual temperature , Aluminium 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

Specifications

Work plate Dimension 140x140mm, Power 510W, Heating output 500W, Voltage 100-120/200-240V 50/60Hz, Temperature display LCD, Heating temperature range Room temp.+5°C - 380°C, Over heat Protection 420°C, Temperature display accuracy $\pm 1^{\circ}$ C, External temperature sensor PT1000 (accuracy $\pm 0.5^{\circ}$ C), Protection class IP21

Dimension: [W x D x H] 320x180×108mm,

Weight 2.2kg, ermissible ambient temperature and humidity 5-40°C 80%RH

ESL58418



Magnetic Stirrer Basic

Maintenance free brush-less DC motor, Speed range of 0-1500 rpm, Max. Stirring quantity of H2O at 20L, Stainless steel work plate cover with ceramic material provides good chemical resistance performance, Specifications:

Work plate dimension ϕ 135mm(5 inch), Work plate material Stainless steel cover with ceramic, Motor type Brush-less DC motor, Motor input power 18W, Motor output power 10W , Power 30W, Voltage 100-240V,50/60Hz, Stirring positions 1, Max. Stirring quantity[H2O] 20L, Max. Magnetic bar[length] 80mm, Speed range 0-1500rpm, Speed display Scale Protection class IP42,

Dimension: [WxDxH] 160×280×85mm,

Weight: 2.8kg

Permissible ambient temperature and humidity 5-40°C, 80%RH

ESL58430



Hot Plat ADV

LED screen shows temperature Max. Temperature up to 550°C

Separate safety circuits with fixed safety temperature of 580°C

External temperature control is possible by connecting the temperature sensor(PT 1000) with an accuracy at $\pm 0.5^{\circ}\text{C}$

Glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer.

The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off Work plate Dimension 184x184mm(7 inch), Work plate material Glass ceramic, Power 1010W ,Heating Power 1000W, Voltage 100-120/200-240V,50/60Hz , Heating position 1, Heating temperature range Room temp.-550°C,increment 5°C , Control accuracy of work plate $\pm 10^{\circ}$ C, Safety temperature 580°C, Temperature display LED, Temperature display accuracy $\pm 1^{\circ}$ C, External temperature sensor PT1000($\pm 0.5^{\circ}$ C) , Heating warning 50°C, Protection class IP21,

Dimension : [W x D x H] 215x360x112mm

Weight: 4.5kg, Permissible ambient temperature and humidity 5-40°C,

80%RF

ESL58419



Magnetic Stirrer Mini

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 $0\sim2300$ R/M(No Load)Max Stirring Capacity 1000m ,stirrer Timing range 0-2300 rpm (empty load) ,

Max. Stirring content 1000ml

Face diameter Φ120mm

Other technical parameters Power adapter DC6V

Exterior Dimension: and weight Φ120×49mm/500g





Magnetic Stirrer Pro

High resolution LCD displays actual speed. Brush-less DC motor is maintenance free Aluminium cover with ceramic work plate, Digitalspeed control in the Max. Stiering up mall size items, necessary for all kinds of 1500rpm, Max. Stirring quantity of H2O at 5L

Specifications:

Work plate Dimension 140x140mm, Work plate material Aluminium cover with ceramic coating, Motor type Brush-less DC motor, Motor rating input 2.4W, Motor rating output 1.8W, Power 10W, Voltage 100-120/200-240V 50/60Hz, Stirring positions 1, Max. Stirring quantity[H2O] 5L, Max. Magnetic bar[length] 50mm, Speed range 200-1500rpm, Speed display LCD, Control accuracy of sensor ±20rpm, Protection class IP21, **Dimension :** [W x D x H] 320x180×108mm

Weight: 2.2kg, Permissible ambient temperature and humidity 5-40°C 80%RH

ESL58431



Hot Plat Magnetic Stirrer Basic

Maintenance free brush-less DC motor

Max. Temperature to 340°C

Stirring speed up to 1500 rpm

Stainless steel work plate with ceramic coating provides good chemicalresistant performance

Safety circuits provide overheating protection

A wide variety of accessories are available

Work plate dimension φ135mm(5 inch), Work plate material stainless steel cover with ceramic, Motor type Brush-less DC motor, Motor rating input 18W, Motor rating output 10W, Power 550W, Heating output 500W, Voltage 100-120/200-240V 50/60Hz, Stirring positions 1, Max. Stirring quantity[H2O] 20L, Max. Magnetic bar[length] 80mm, Speed range 100-1500rpm, resolution±1rpm, Speed display Scale, Temperature display Scale, Heating temperature range Room temp.-340°C, Over temperature protection 350°C, Temperature display accuracy ±0.5°C, Protection class IP42

Dimension: [WxDxH] 160×280×85mm

Weight 2.8kg, Permissible ambient temperature and humidity 5-40°C,

ESL58439



Hot Plate Magnetic Stirrer Mini

Exterior dimension and weight Φ120×49mm/500g Stepless speed regulation.

Constant power heating, no-load surface temperature 12 °C

A thermal protection device of 150 °C.

Range 0~2300 R/M(no load) Max Stirring Capacity 1000mL.





Hot Plat Magnetic Stirrer Pro

Brush-less DC motor is maintenance free and explosion-proof Digital temperature control with Max. Temperature at 340°C, Digital speed control with Max. Speed up to 1500rpm, Max. Stirring quantity of H2O at 20L, Safety circuits provide overheating protection, The "HOT" warning will flash if the plate temperature is above 50°C even when the hotplate is turned off High-resolution LCD display shows actual temperatures and speed (displays the time also), External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at ±0.2°C, Stainless steel work plate with ceramic coating provides good chemical-resistant performance Remote function provides PC control and data transmission, A wide variety of accessories are available

Work plate dimension ϕ 135mm(5 inch), Work plate material stainless steel cover with ceramic, Motor type Brush-less DC motor, Motor rating input 18W, Motor rating output 10W, Power 550W, Heating output 500W, Voltage 100-120/200-240V 50/60Hz, Stirring positions 1, Max. Stirring quantity[H2O] 20L, Max. Magnetic bar[length] 80mm, Speed range 100-1500rpm, resolution±1rpm, Speed display LCD, Temperature display LCD, Heating temperature range Room temp.-340°C, increment 1°C, Temperature control accuracy ±1°C(<100°C), ±1%(>100°C), Over temperature protection 360°C, Temperature display accuracy ±0.1°C, External temperature sensor PT1000 (accuracy ±0.2), "Hot" warning 50°C, Data connector RS232, Protection class IP42

Dimension: [WxDxH] 160×280×85mm.

Weight: 2.8kg, Permissible ambient temperature and humidity 5-40°C, 80%RH



The ESL-H280-Pro is a perfect device for handling small volume task on daily application, as a low temperature magnetic stirrer with max. temperature at 280°C.

ESL-H280-Pro

LED Digital Magnetic Hotplate Stirrer

Features

- Digital temperature control with max. temperature up to 280°C
- Digital speed control with max. speed up to 1500rpm
- Stainless steel work plate with ceramic coating provides good chemical resistant performance
- External temperature control is possible by connecting the temperature sensor(PT1000) with an accuracy at ±0.5°C
- LED display shows temperature and speed
- The "HOT" warning will flash when the work plate temperature is above 50°C even if the hotplate is turned off



External sensor



Wide range of accessories



Chemical resistance



LED display



Specifications

Work plate Dimension
Work plate material
Motor type
Stirring positions
Max. stirring quantity
Max. magnetic bar[length]
Speed range
Speed display
Temperature display
Speed display resolution
Heating temperature range
Control accuracy of work plate
Overheating protection
Temperature display accuracy
External temperature sensor
"Hot" warning
Protection class
Motor rating input
Motor rating output
Power
Heating output
Voltage
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

ESL-H280-Pro
φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor
1
3L
50mm
200-1500rpm
LED
LED
±1rpm
Room temp280, increment 1°C
±1°C(<100°C) ±1%(>100°C)
320°C
±1°C
PT1000 (accuracy ±0.5°C)
50°C
IP21
5W
3W
515W
500W
100-120/200-240V 50/60Hz
150×260×100mm
1.8kg
5-40°C, 80%RH





ESL58418

DIGITAL HOT PLATE PRO

ESL58431

DIGITAL MAGNETIC STIRRER PRO LCD

ESL58440

DIGITAL HOT PLATE MAGNETIC STIRRER PRO

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

Specifications	ESL58440	ESL58431	ESL58418	
Work plate Dimension	140x140mm	140x140mm	140x140mm	
Work plate material	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating	
Motor type	Brushless DC motor	Brushless DC motor	-	
Motor rating input	2.4W	2.4W	-	
Motor rating output	1.8W	1.8W	-	
Power	510W	10W	510W	
Heating output	500W	-	500W	
Voltage	100-120/200-240V, 50/60Hz	100-240V, 50-60Hz	100-120/200-240V, 50/60Hz	
Stirring positions	1	1	-	
Max. stirring quantity[H ₂ O]	5L	5L	-	
Max. magnetic bar[length]	50mm	40mm	-	
Speed range	200-1500rpm	200-1500rpm	-	
Speed display	LCD	LCD	-	
Temperature display	LCD	-	LCD	
Heating temperature range	Room temp.+5°C - 380°C	-	Room temp.+5°C - 380°C	
Over heat Protection	420°C	-	420°C	
Temperature display accuracy	±0.1°C	-	±0.1°C	
External temperature sensor	PT1000 (accuracy ±0.5°C)	-	PT1000 (accuracy ±0.5°C)	
Control accuracy of sensor	±20rpm	±20rpm	-	
Protection class	IP21	IP21	IP21	
Dimension [W x D x H]	320x180×108mm	320x180×108mm	320x180×108mm	
Weight	2.2kg	2.2kg	2.2kg	
Permissible ambient	5-40°C 80%RH	5-40°C 80%RH	5-40°C 80%RH	



temperature and humidity





Hot Plat Magnetic Stirrer LCD

LCD display for precise monitoring of speed and temperature, Built-in PID controller ensures safe heating of the medium with overheating protection, Max. Heating plate temperature 550°C, Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer, External temperature control is possible by connecting the temperature sensor(PT1000) with an accuracy at $\pm 0.2^{\circ}$ C, Digital speed controlling, max. speed at 1500rpm, Outstanding brushless DC motor enables more stirring power, Two rotating knobs enable easy adjustment of speed and temperature, The "HOT" warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off Remote function provides PC control and data transmission Specifications

Work plate Dimension [W x D] 184x184mm (7 inch), Work plate material Glass ceramic, Motor type Shaded pole motor, Motor rating input 15W, Motor rating output 1.5W,Power 1030W, Heating output 1000W, Voltage 100-120/200-240V 50/60Hz, Stirring positions 1, Max. stirring quantity, [H2O] 10L, Max. Magnetic bar[length] 80mm, Speed range 0-1500rpm, Speed display Scale, Temperature display LCD, Heating temperature range Room temp.-550°C, increment 5°C, Temperature control accuracy $\pm 10^{\circ}\text{C}$, Overheating protection 580°C, Temperature display accuracy $\pm 1^{\circ}\text{C}$, External temperature sensor PT1000 (accuracy ± 0.2), "Hot" warning 50°C, Protection class IP21

Dimension: [WxDxH] 215x360x112mm

Weight: 4.5kg, Permissible ambient temperature and humidity 5-40°C,

80%RH

ESL58441



Hot Plat Magnetic Stirrer LED ADV

LED display for precise monitoring of temperature

A wide speed range of 0 to 1500rpm

Max. Heating plate temperature 550°C

External temperature control is possible by connecting the temperature sensor(PT1000) with accuracy at $\pm 0.2^{\circ}C$

The "HOT" warning will flash if the work plate temperature is above 50°C. Work plate Dimension [W x D] 184x184mm (7 inch)

Work plate material Glass ceramic, Motor type Shaded pole motor, Motor rating input 15W, Motor rating output 1.5W, Power 1030W, Heating output 1000W, Voltage 100-120/200-240V 50/60Hz, Stirring positions 1, Max. Stirring quantity, [H2O] 10L, Max. Magnetic bar[length] 80mm, Speed range 0-1500rpm, Speed display Scale, Temperature display LED, Heating temperature range Room temp.-550°C, increment 5°C, Temperature control accuracy $\pm 10^{\circ}$ C, Overheating protection 580°C, Temperature display accuracy $\pm 1^{\circ}$ C, External temperature sensor PT1000 (accuracy ± 0.2), "Hot" warning 50°C, Protection class IP21

Dimension: [WxDxH] 215x360x112mm,

Weight: 4.5kg, Permissible ambient temperature and humidity 5-40°C, 80%RH

ESL58442



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-weaved 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.

 $Thermal\ Insulation\ uses\ non-toxic\ as best os-free\ ceramic\ wool\ (fibre\ glass).$

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

ESL58455 For flask capacity 100 ml
ESL58456 For flask capacity 250 ml
ESL58457 For flask capacity 500 ml



Heating Mantle

Model: (Heating Mantle Series) & (Heating Mantle & Stirrer Series)



Features

- Non-Asbestos
- Heater section was hand weaved 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

 \blacksquare Heating Temperature : Up to 450°C(Max)

■ Mantle material : Woven glass fiver mat

MODEL	Capacity	Flask Dia	Dimension	Wattage	Depth	Weight
ESL58455	100mL	63-66mm	Ø145 x 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 x 140(H)mm	470	100	3.5kg
ESL58460	3000mL	184-187mm	Ø190 x 140(H)mm	570	105	4.3kg
ESL58461	5000mL	221-237mm	Ø325 x 140(H)mm	850	131	6kg

MODEL	Capacity	Flask Dia	Dimension	Wattage	Depth	Weight
ESL58455ST	100mL	63-66mm	Ø145 x 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 x 140(H)mm	450	100	3.5kg
ESL58460ST	3000mL	184-187mm	Ø190 x 140(H)mm	550	105	4.3kg
ESL58461ST	5000mL	221-237mm	Ø325 x 140(H)mm	800	131	6kg







ESL-HB105-S1/ESL-HB105-S2 ESL-HB150-S1/ESL-HB150-S2 Dry bath Digital LED

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.



Cat.No.

18900459

18900410

18900461





lwo-in-one block, bead bath/water bath Adapt to S1

Two-in-one block, bead bath/water bath Adapt to S2

Aluminum beads





18900520





Specifications	ESL-HB105-S1	ESL-HB105-S2	ESL-HB150-S1	ESL-HB150-S2
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	25~105	25~150	25~150
Temperature control accuracy[°C]	25-90: ±0.3 90-105: ±0.6	25-90: ±0.3 90-105: ±0.6	25-90: ±0.3 90-150: ±0.6	25-90: ±0.3 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



Table Top Autoclave

Model: ESL-25D, ESL-50D, ESL80D



Features

- Full automation
- LED Display
- Safety device
- Self-test function
- Exhaustive design's gasket



MODEL		ESL-25D	ESL-50D	ESL-80D		
Dimension	(In)	535 x 620 x 430	620 x 710 x 520	620 x 1000 x 1290		
(W \times D \times H) (mm)	(Out)	Ø260 x 460mm	Ø350 x 510mm	Ø1350 x 800mm		
Capacity		25 Liter	50 Liter	80 Liter		
Heater		2KW	2KW	2.5KW		
Weight		48kg	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		
Material	(In)	Stainless steel				
Material	(Out)	Steel plate with powder coating				
Safety device		Over temp. protector, Safety Valve				
Temp.range		121°C				
Pressure range		0-2.1kgf/cm ²				
Sterilizer Time		60Min(Max)				
Control system		8 Bit Microprocessor				
Power		220V, 50/60Hz				





Vortex Mixers



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.

ESL58495

Vortex Mixer Adjustable Speed

ESL58494

Vortex Mixer Fixed Speed

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 stablility
- Robust aluminum-cast construction



Wide range of accessories

Sn	00	 C 2 t	10	nc

Voltage
Power
Mixing motion
Orbital diameter
Motor type
Motor rating input
Motor rating output
Speed range
Speed display
Run type
Dimension[W×H×D]
Weight
Permissible ambient temperature
Permissible relative humidity
Protection class

5-40°C

80%RH

IP21

ESL58495 (Adjustable speed)	(Fixed speed)
100-120V/200- 240V,50/60Hz	100-120V/200- 240V,50/60Hz
60W	60W
Orbital	Orbital
4mm	4mm
Shaded pole motor	Shaded pole motor
58W	58W
10W	10W
0-2500rpm	2500rpm
Scale	-
Touch operation/ Continuous	Touch operation/ Continuous
127×130×160mm	127×130×160mm
3.5kg	3.5kg



5-40°C

80%RH

IP21

Standard top (Default)

for <Ø30mm tubes and small vessels

Cat. No.ES000034











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 I/Min * Motor rotation: 1750 RPM * Horse power: 1/8 HP * Noise level: 50.0dB

ESL58472



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



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





Vortex Mixer

Touch operation or continuous mode

Used for various mixing applications with optional adapters

Specially designed vacuum suction feet for body stability

Robust aluminium-cast construction

Specifications

Voltage 110-120V/220-230V,50/60Hz

Power 60W

Mixing motion Orbital

Orbital diameter 4mm

Motor type Shaded pole motor

Motor rating input 58W

Motor rating output 10W

Speed range 2500rpm

Run type Touch operation/Continuous

 $\textbf{Dimension:} [W \times H \times D] \ 127 \times 130 \times 160 mm$

Weight: 3.5kg

Permissible ambient temperature 5-40 ° Permissible relative humidity 80%RH

Protection class

Protect IP21

Fixed Speed

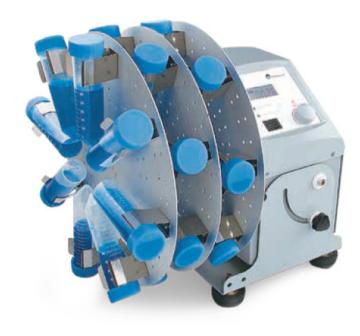
ESL58494 ESL58495

Variable Speed



549





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.

ESL58490

Digital Rotator LCD

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

ESL58489

Economical Rotator

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

Motor type
Tilt angle
Speed range
Speed display
Timer display
Timer
Operation mode
Voltage
Power
Dimension [D×W×H]
Permissible ambient temperature and humidity
Protection class

ESL58490

DC motor	
0-90°	
10-70rpm	
LCD	
LCD	
1-1199min	
Continuous / timer	
100-240V, 50/60Hz	
40W	
280×210×300mm	
5-40°C, 80%RH	
IP21	

FSI 58489

E0E00400	
DC motor	
-	
0-80rpm	
Scale	
Scale	
-	
Continuous	
100-240V, 50/60Hz	
20W	
300×220×310mm	
5-40°C, 80%RH	
IP21	



Shakers

ES Rocking and 3D shakers provide perfect solution in electrophoresis gel dyeing/discoloration, sample washing, molecular hybridization, immunoprecipitation, Western blot and cell culture.

ESL58497

Digital Rocking Shaker LCD

Features

- Rocking motion angle 9°
- Max. load capacity is 10kg with platform
- Speed range of 10-70rpm
- Double LCDs for independent display of time and speed
- Wide range of platforms for use with a variety of vessels





ESL58498

Digital Rocking shaker LED

Features

- Rocking motion angle 7°
- Max. load capacity is 3kg with platform
- Speed range of 10-80rpm
- Double LEDs for independent display of time and speed
- Wide range of platforms for use with a variety of vessels

ESL58499

Economical Rocking Shaker

Features:

- Rocking motion angle 7°
- Max. load capacity is 3kg with platform
- Speed range of 0-80rpm
- Wide range of platforms for use with a variety of vessels







Appliances

Shakers





Time



Wide range of accessories







Specifications

Tilt angle
Max. load capacity (with platform)
Motor type
Motor input power
Motor output power
Speed range
Speed display
Timer display
Time settings range
Voltage
Power
Weight
Permissible ambient temperature and
humidity
Dimension[W×D×H]
Protection class

ESL58497

9°
10kg
DC motor
40W
24W
10-70rpm
LCD
LCD
1min-19h59min
100-240V, 50/60Hz
50W
9kg
5-40°C, 80%RH
360×410×200mm
IP21

ESL58498

7°
3kg
DC motor
16W
10W
10-80rpm
LED
LED
1min-19h59min
100-240V, 50/60Hz
20W
3.2kg
5-40°C, 80%RH
270×330×130mm
IP21

_	
	7°
	3kg
	DC motor
	16W
	10W
	0-80rpm
	-
	<u>-</u>
	-
	100-240V, 50/60Hz
	20W
	3.2kg
	5-40°C, 80%RH
	270×330×130mm
	IP21









Tube Rollers

ESL58487

LCD Digital Tube Roller

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

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.



LCD display



Timer

ESL58486 Tube Roller

Features

- Speed range of 0-70rpm
- Six roller design for gentle rolling and easy to clean





Specifications

Amplitude
Motor type
Rocking motion
Max. load capacity
Number of rollers
Roller size[length]
Speed range
Speed display
Timer
Timer display
Time setting range
Operation mode
Voltage
Power
Dimension [D×W×H]
Weight
Permissible ambient temperature and humidity
Protection class

ESL58487

E5L58487
24mm
DC motor
Rocking and rolling
4kg
6
280mm
10 -70rpm
LCD
Yes
LCD
1-1199min
Continuous/timer
100-240V,50/60Hz
30W
450×260×120mm
5.1kg
5-40°C,80%RH
IP21

20200-100
24mm
DC motor
Rocking and rolling
4kg
6
280mm
0-70rpm
Scale
-
-
-
Continuous
100-240V,50/60Hz
25W
450×260×120mm
4.5kg
5-40°C,80%RH
IP21





ESL-D-160

Handheld Homogenizer

Features

- Ideal for manual operation due to its light weight and ergonomic design
- Processing range: 0.1-50mL or 1-250mL
- 316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions
- All shafts are interchangeable for easy dismantling and cleaning.
- 6 modes of motor speed from 8,000 to 30,000 rpm

ESL-D-500

Homogenizer

Features

- Viscosity up to 10,000 mPas
- 6 modes of motor speed from 10,000 to 30,000 rpm
- All-round safety guarantee for motor drive, overload protection and smooth operation
- 316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions
- Easy dismantling for fast preparation
- All shafts are interchangeable for easy dismantling and cleaning







Specifications

Power Supply

Motor Type Universal motor

Speed Range

Max. Circum. Speed

Speed Control Dial knob

Working Volume [H₂O]

Max. Viscosity

Material of Dispersing Shaft

Weight

Dimension [L x W x H]

Noise

Operating Environment

Protection Class

ESL-D-160

110-120V/60Hz 220-240V / 50-60 Hz

160 W AC carbon brush motor

8000-30000rpm

6.3-14m/sec

6 stage

0.1-50mL (Dispersing shaft DS-160/5)

1-250mL (Dispersing shaft DS-160/10)

5,000mPas

SS 316L stainless steel, PTFE

0.6 kg

46mm x 55mm x 230mm

72 dB(A)

0-40°C, 85% rel. humidity

IP20

ESL-D-500

110-120V/60Hz 220-240V/50-60 Hz

500 W AC carbon brush motor

10000-30000rpm

22.7-36m/sec

6 stage

10-40000mL (Optional)

10,000 mPas

SS 316L stainless steel, PTFE

1.3 kg

70mm x 70mm x 255mm

79 dB(A)

0-40°C, 85% rel. humidity

IP20





ESL-D-500

Homogenizer

ESL-DS-500/1

SS20CSR20

Volume 10-5000mL Max. Circum. Speed 22.7m/sec

Material: 316L

Homogenizers | Accessories

Application: for solid/liquid media

Cat. No. 18201331

ESL--DS-500/2

SS20FER20

Volume 10-5000mL

Max. Circum. Speed 22.7m/sec

Material: 316L

Application: for water and oil mixing



ESL--DS-500/5

SS5CSR5

Volume 10-5000mL

Max. Circum. Speed 5,8m/sec

Material: 316L

Application: Ideal for all homogenizing applications such as tissue homogenization, cell disruption, suspensions and clinical and medical diagnostics



ESL-D-160

Handheld Homogenizer

ESL-DS-160/5

Volume 0.1-50ml

Max. Circum. Speed 6.3m/sec

Material: 316L

Application: small amounts of solid-

liquid mixed

ESL-DS-160/10

Volume 1-250mL

Max. Circum. Speed 14m/sec

Material: 316L

Application: small amounts of solid-

liquid mixed



Cat. No. 18900117

18201329



Cat. No.

18201330



Stator



S20C



S20F



S30C



S30F



S40C



Rotor



SR20



SR30



CR20



CR30



MR20



MR30



ER20



ER30



Cat. No.	Compatibility	Description of Shaft	Function	Applications	Treatable Volume (refer to water)
18900113	D-160		dispersing tool for solid/liquid media		0.1-50ml
18900114	D-160		dispersing tool for solid/liquid media		1-250ml
18900117	D-500	SS5CSR5	dispersing tool for solid/liquid media	Dispersing of tissue decomposition, clinical & medical diagnostics and suspensions	1-50ml
18900115	D-500	SS20CSR20	dispersing tools for solid/liquid media	Coarse crushing of hard solids in liquid	10-5000ml
18900116	D-500	SS20FER20	Dispersing tools for W/O or O/W emulsions	Emulsions, intensive mixing of w/o and o/w emulsions Dispersing of resins and pigments for paint and lacquer industry	10-5000ml
18900118/ 18900125	D-500	S20C CR20	dispering tool with knifes for fibrous/ stringy materials	Fragmentation of vegetable, animal and human tissues	10-5000ml
18900118/ 18900127	D-500	S20C MR20	dispersing tool for solid/liquid media	S u s p e n s i o n s , intensive mixing	10-5000ml
18900119/ 18900125	D-500	S20F CR20	dispering tool with knifes for fibrous/ stringy materials	Fragmentation of vegetable, animal and human tissues	10-5000ml
18900119/ 18900127	D-500	S20F MR20	dispersing tools for solid/liquid media	Emulsions, intensive mixing of w/o and o/w emulsions	10-5000ml
18900120/ 18900124	D-500	S30C SR30	dispersing tools for solid/liquid media	Coarse crushing of hard solids in liquid	100-8000ml
18900120/ 18900126	D-500	S30C CR30	dispering tool with knifes for fibrous/ stringy materials	Fragmentation of vegetable, animal and human tissues	100-8000ml
18900120/ 18900128	D-500	S30C MR30	dispersing tools for solid/liquid media	S u s p e n s i o n s , intensive mixing	100-8000ml
18900121/ 18900124	D-500	S30F SR30	dispersing tools for solid/liquid media	Dispersing of resins and pigments for paint and lacquer industry	100-8000ml
18900121/ 18900130	D-500	S30F ER30	Dispersing tools for W/O or O/W emulsions	Emulsions, intensive mixing of w/o and o/w emulsions Dispersing of resins and pigments for paint and lacquer industry	100-8000ml
18900121/ 18900128	D-500	S30F MR30	dispersing tools for solid/liquid media	Emulsions, intensive mixing of w/o and o/w emulsions	100-8000ml
18900120/ 18900127	D-500	S30C MR20	Stirring Shaft	High speed mixing without crushing	250-20000ml
18900122/ 18900128	D-500	S40C MR30	Stirring Shaft	High speed mixing without crushing	1000-40000ml



ESL₂₀-S ESL40-S

LED Overhead Stirrer

Features

- High reliability and outstanding performance
- A 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



LED display of set and actual speed



- Brushless DC Motor
- Explosion-proof
- Precision speed contro

Self - locking drill chuck, tools free



Explosion-proof



Wide range of accessories





Specifications	ESL20-S	ESL40-S		
Max. stirring quantity[H ₂ O]	20L	40L		
Speed range	50~2200rpm	50~2200rpm		
Max. torque	40N•cm	60N•cm		
Viscosity max.	10000mPa•s	50000mPa•s		
Weight	2.8kg	2.8kg		
Motor type	Brushless I	DC motor		
Speed display	LED			
Overload protection display	LED			
Chuck range diameter	0.5~10mm			
Motor input power	60W	120W		
Motor output power	50W	100W		
Power	70W	130W		
Voltage	100~240V, 50/60 Hz			
Dimension[WxHxD]	83 x 220 x 186mm			
Protection class	IP2	21		
Permissible ambient temperature and humidity	5~40°C,	80%RH		



Plate Stands

Universal Plate Stand (for OS20/40/70)

Dimension [W x D x H]: 200x310x780mm Material: stainless steel



Grand Plate Stand (for OS70)

Dimension $[W \times D \times H]$: 335 x 463 x 780mm Material: stainless steel

Cat No. 18900497



Stirrer

Stainless Steel Series

PTFE Coating

Grand Series (for OS70)

Propeller stirrer

Shaft length 40cm Stirrer diameter 50mm Material: 304L stainless steel Standard stirring applications at medium and high speed





Paddle stirrer

Shaft length 40cm Stirrer diameter 68mm Material: 304L stainless steel For gentle mixing at low and medium speeds

Cat No. 18900073



Straight stirrer

Shaft length 40cm Stirrer diameter 60mm Material: 304L stainless steel For low viscosity media at medium and high speeds

Cat No. 18900072



Centrifugal stirrer

Shaft length 40cm Stirrer diameter 90mm Material: 304L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.

Cat No. 18900074



Propeller stirrer

Shaft length 40cm Stirrer diameter 50mm Material: PTFE coated Standard stirring applications at medium and high speed

Cat No. 18900075



Paddle stirrer

Shaft length 40cm Stirrer diameter 68mm Material: PTFE coated For gentle mixing at low and medium speeds

Cat No. 18900077



Straight stirrer

Shaft length 40cm Stirrer diameter 60mm Material: PTFE coated For low viscosity media at medium and high speeds

Cat No. 18900076



Centrifugal stirrer

Shaft length 40cm Stirrer diameter 90mm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.

Cat No. 18900078



Grand propeller stirrer

haft length 60cm Stirrer diameter 100mm Material: 316L stainless steel Standard stirring



Cat No. 18900478



Grand paddle stirrer

Shaft length 60cm Stirrer diameter 100mm Material: 316L stainless steel Gentle mixing for those stratify easily or sensitive to shear

Cat No. 18900499



Grand anchor stirrer

Shaft length 60cm Stirrer diameter 100mm Material: 316L stainless steel Standard stirring or for those easily precipitate

Cat No. 18900498



Grand dissolving stirrer

Shaft length 60cm Stirrer diameter 100mm Material: 316L stainless steel Breaking down granules in the mixture with strong shear

Cat No. 18900500









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 ± 100 rpm, 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 Mini

Ideal for micro-filtration and quick spin-downs, Easy-to-use with dual start/stop function, 5000rpm fixed speed, Compatible with 2mLx8 and PCR8x2 rotors, Quiet running, noise level ≤45dB, Rotor change without tools, Accelerates and brakes in seconds, Available in two colours i.e., green, blue

ESL58503



Centrifuge Tube Sterile Bulk-Pp, 15ml

SPINNING Centrifuge Tube Sterile Bulk-PP,

ESL58537 15ml, 25/pack

ESL58538 50ml, 25/pack



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 2490xg, Speed accuracy ± 20 rpm, 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



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.





ESL58503 Series

Micro Centrifuge

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, endurable and robust rotor with clamp locking design.



Quiet operation



Vibration free



Specifications

Max. Speed Max. RCF

Rotor Capacity

Run Time

Driving Motor

Power

Noise Level

Dimension [DxWxH]

Weight Certification

ESL58503

7000rpm

2680×g

0.2/0.5/1.5/2.0mL×8; 0.2mL×32 PCR strips or 0.2mL×4 PCR 8 strips

Continuous operation

DC motor

AC100-240V/50Hz/60Hz 20W

≤45dB

160x170x122mm

1.19kg

CE cTÜVus FCC MCA







Available rotors



ESA8-2P

Max. speed:7000rpm
Max. RCF:2680×g
Rotor capacity:2mL/1.5mL×8,0.2mL×8,0.5mL×8
Rotor material:High strength plastic
Available rotor adapters:SA02P2, SA05P2



ESA04-RCR8

Max. speed:7000rpm Max. RCF:2680×g

Rotor capacity: 0.2 ml×32 PCR strips, 0.2 ml×4 PCR 8 strips

Rotor material: High strength plastic

Available adapters



ESA02P2

0.2mL rotor adapter Used with A08-2 rotor 8pcs/pk



ESA05P2

0.5mL rotor adapter Used with A08-2 rotor 8pcs/pk





EduScience **UK** ESL-506 low-speed centrifuge, supplied with buil to 5mL/10mL/7mL/5mL×6

ESL-506

Low-speed Centrifuge

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

Speed Range	Spe	ed	Rar	nge
-------------	-----	----	-----	-----

Max. RCF

Speed accuracy

Rotor capacity

Run Time

Display

Programs Memory

Acceleration/Deceleration

Safety Devices

Motor

Power

Dimension(WxDxH)

Weight

Advanced features

ESL-506

300-5000rpm, increment:10rpm

2350xg, increment: 10g

±20rpm

6x15mL/10mL/7mL/1.5-5ml

30sec-99min, HD(continuous running)

LCD

2

1 ↑ 2 ↓

Door interlock, Overspeed detector, Automatic internal diagnosis

Brushless DC motor

Single-phase, 100V-240V,50Hz/60Hz, 70W

300X240X180mm

5.2kg

Speed/RCF switch; sound-alert function



Available adapters



ES5P17

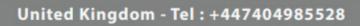
5ml adapter, Adapted to 13×75 mm blood collection tube



ES2P17

1.5/2ml Cryogenic Vials/ centrifuge tube adapter





ESL-2012PRO

High Speed Mini Centrifuge



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, cTÜVus, FCC



Brushless DC motor



LCD display



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Specifications

Max. Speed

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time

Acceleration

/Braking time

Driving Motor

Safety Devices

Power

Noise level

Dimension[DxWxH]

Weight

Certification

Other functions

ESL-2012 Pro

15000rpm(500-15000rpm), increment: 100rpm

15100×g, increment: 100×g

±20rpm

0.2mL/0.5mL/1.5mL/2mL×12

30sec-99min/Continuous

11s ↑ /9s ↓

Brushless DC motor

Door interlock, Over-speed detection, Over-temperature detection,

Single-phase, AC100V-240V, 50Hz/60Hz, 3A 100W

Automatic internal diagnosis

≤54dB

255×245×140mm

6kg

EMC, CE, FCC, ICES, cTUVus, CB

Speed/RCF switch, Short-time run function, sound-alert function

Available rotors



A12-2Pfor 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



EduScience hematocrit centrifuge with AC24P hematocrit rotor is used for determination of volume fractions of erythrocytes in blood for diagnostic purposes and doping tests. Also it is used for the photometric determination of bilirubin content in neonate blood samples. Hematocrit centrifuge with A24-2P tube rotor, can be used for extraction of DNA and RNA.





ESL-1424

Hematocrit Centrifuge

Features

- Speed range of 200-12000rpm, max. RCF 13680xg
- · Precise control of speed and time separately
- Easy operation with intuitive menu and easy-to-read display
- · Maintenance-free brushless DC motors
- Pulse operation for quick spins
- Rotor capacity: Hematocrit rotor
- Hematocrit rotor:24 capillary max. speed:12000rpm



ESL-1224

Economical Hematocrit Centrifuge

Features

- Max.speed is 12000rpm, max. RCF 13680xg
- · Precise control of speed and time separately
- · Rotor capacity: Hematocrit rotor: 24 capillary



Specifications	ESL-1424	ESL-1224	/1
Speed Range	200-12000rpm, increment: 10rpm	500-12000rpm, increment: 100rpm	
Max. RCF	13680×g	13680×g	
Speed Accuracy	±20	±100	0
Run Time	30sec-99min/Continuous	10sec-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	30 s ↑ 30s ↓	40s↑40s↓	
Power	Single-phase, 200V-240V,50Hz/60Hz, 5A; 100V-120V,50Hz/60Hz, 5A 160W	Single-phase, 200V-240V,50Hz/50Hz, 5A; 380W	SS 10. 22 BB
Dimension[WxDxH]	280×364×274mm	280×364×213mm	
Weight	10kg	10kg	
Certification	CE cTÜVus FCC MCA IVD	252	
Advanced features	Speed/RCF switch;Short-time run function; sound-alert function	Speed/RCF switch;Short-time run function; sound-alert function	





Cat. No. ES400047

AC24

ESL-1424 & ESL-1224

Max. speed: 12000rpm Max. RCF: 13680xg

Rotor capacity: capillary tubes x24 Rotor material: High strength aluminum



ESL-3024D

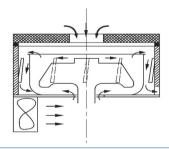
High Speed Micro Centrifuge

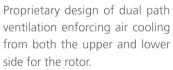
Unique Features

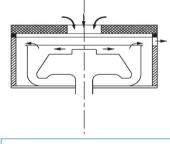
- Patent multi-flow air cooling design to provide air exchange to prevent chamber warming
- Three-layer seal ensure airtightness and biosafety
- High strength aluminum alloy rotor can be fully autoclaved for unlimited service life
- Four rotors are optional complete with 24 places 1.5/2.0mL tubes, bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with adapters

Effective Ventilation System

Conventional design







Limiting ventilation on the upper side of the rotor





Brushless DC motor



Wide range of rotors







Specifications

Max. Speed

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time

Acceleration
/Braking time [Sec]

Motor

Safety Devices

Power

Noise Level

Dimension[WxDxH]

Certification
Other functions

Weight

ESL-3024D

15000rpm(200-15000rpm), increment:10rpm

21380 \times g, increment:10 \times g

±20 rpm

5mL×18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL×24, 0.5mL×36, PCR8×4

30sec-99min/Continuous

25s ↑ 25s ↓

Brushless DC motor

Dual door interlock, Over-speed detection, Automatic internal diagnosis

Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V-120V, 50Hz/60Hz, 8A 200W

≦64dB

280×364×266mm

12kg

CE cTÜVus FCC MCA

Speed/RCF switch; Short-time run function; sound-alert function









Micro Centrifuge

ES otors 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°C and D2012 rotors less than 8°C after running an hour

Seals within the aluminum alloy rotor

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.

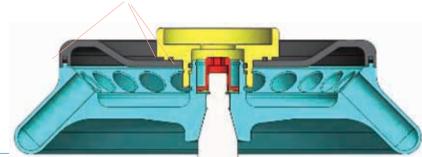
Bio-safety

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.

> Three rubber seals fitted to achieve bio-safe condition





Micro Centrifuge | Rotors and Adapters

Available rotors



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



Micro Centrifuge | 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

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



Micro Centrifuge

ESL58509

Micro Centrifuge

Unique Features

- Special multi-flow air cooling design with patent ensures fast cooling of the rotor and low energy consumption
- Temperature display appropriate for gentle handling of sensitive samples
- Three-layer sealed rotor prevents accidental leakage during centrifugal process allowing risk-free microbial contamination
- 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





ESL58510Refrigerated Micro Centrifuge

Powerful cooling system for precise temperature control

- Pre-cooling program ensures optimal protection of the sample before warming
- Guaranteed 4°C cooling within only 7 minutes of both chamber and samples even at maximum speed and capacity utilization
- Sound-alert allows your undivided attention on other tasks warming
- Lid lock facility allows for internal temperature maintenance even after centrifugation
- Intermittent temperature control mode, CFC-free refrigerant and low carbon life rotor capacity
- Three-layer sealed rotor prevents accidental leakage during centrifugal process allowing risk-free microbial contamination
- High strength aluminum alloy rotor can be fully autoclaved for unlimited service life
- Four rotors are optional complete with 24 place 1.5/2.0mL tubes,bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with the use of adapters
- Quiet running, noise level ≤ 54dB



FC

Micro Centrifuge



Brushless DC motor



Wide range of rotors



Specifications

Max. Speed

Max. RCF

Speed Accuracy

Temperature Range

Rotor Capacity

Run Time

Motor

Safety Devices

Power

Acceleration /Braking time [Sec]

 $\mathsf{Dimension}[\mathsf{W}{\times}\mathsf{D}{\times}\mathsf{H}]$

Weight

Certification

Advanced Features

Noise Level

ESL58509

FC

15000rpm(200-15000rpm), increment:10rpm

21380×g, increment:10×g

±20 rpm

5mL×18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL×24, 0.5mL×36, PCR8×4

30sec-99min/Continuous

Brushless DC motor

Dual door interlock, Over-speed detection, Automatic internal diagnosis

Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V-120V, 50Hz/60Hz, 8A 200W

25s ↑ 25s ↓

280×364×266mm

12kg

CE cTÜVus FCC MCA

Speed/RCF switch; Short-time run function; sound-alert function

≦64dB

ESL58510

15000rpm(200-15000rpm), increment:10rpm

21380×g, increment: 10×g

±20 rpm

-20°C-40°C

5mL×18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL×24, 0.5mL×36, PCR8×4

30sec-99min/Continuous

Brushless DC motor

Dual door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis

Single-phase, AC200V-240V, 50Hz/60Hz, 10A, AC100V-120V, 50Hz/60Hz, 10A 400W

25s ↑ 25s ↓

338×580×324mm

30kg

CE cTÜVus FCC MCA

Speed/RCF switch; Short-time run function; sound-alert function

≦56dB







ES UK ESL-636 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 to100mL at low speed.

Multi-Purpose Low-speed Centrifuge

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 contionous running
- Pulse Key for quick spin function
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motors



Specifications	ESL-636				
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

for S4-100 rotor



SE4-100(Standard accessory) for ESL-636

Max. speed: 4000rpm Max. RCF: 2950×q

Rotor material: stainless steel body and adapter





Cat. No. ES500025

15ml conical tube adapter, MOQ 8 Pcs (optional)





Multi-Purpose Low-speed Centrifuge











19400042

							!				
bucket	x 4										
tube	x 3	36		x 16		x 8	x 4	x 4	x 4	x 8	x 20
Nominal volume	3-7	mL	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				■						\bigvee	
adapter	with plug					A 50V	A10	0P80	A100P50 A50V	A100P15	() A100P10
Package	36		1			8	4	4	4	8	4
Tubes per rotor	36	36	16	16	16	8	4	4	4	8	20
Radius(cm)	14	16.5	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.1	14.7
Max RCF	2500	2950	2840	2840	2840	2840	2840	2840	2840	2700	2630



Available rotors



ES2-MP

ESL-636

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. ES400062

Cat. No. ES400036

Cat. No. ES400034

Cat. No. ES400037



ES12-PCR8

ESL-636

Max. speed: 6000rpm Max. RCF: 4020×g

Rotor capacity: PCR 8 trips×12 Rotor material: aluminum

Biosealing: Yes



ES30-2

ESL-636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×30 Rotor material: aluminum

Biosealing: Yes



ES60-2

ESL-636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×60 Rotor material: aluminum

Biosealing: Yes



Cat. No. ES400038

Available rotors



ES6-50V (cone bottom)

ESL-636

Max. speed: 6000rpm Max. RCF: 4020×q

Rotor capacity: 50mL×6 or 15mL×6

Rotor material: aluminum

Biosealing: Yes



ES18-5V (cone bottom) Cat. No. ES400035

ESL-636

Max. speed: 6000rpm Max. RCF: 4020×q Rotor capacity: 5mL×18

Rotor material: stainless steel body and aluminum buckets

Biosealing: Yes



E8-50 (round bottom) **Cat. No.** ES400039

ESL-636

Max. speed: 5000rpm Max. RCF: 3960xg

Rotor capacity: 50mL×8 or 15mLx16

Rotor material: aluminum body and stainless steel adapter

Default adapters: SE100P31x8,SE100P17x6



E30-15 (round bottom) Cat. No.11ES400040 ESL-636

Max. speed: 4500rpm Max. RCF: 3210xg Rotor capacity: 15mL×30

Rotor material: aluminum body and stainless steel

adapter Bio-safe(Biosealing): Yes Default adapters: SE100P17x30

110101
AS30-2
AS60-2
AS6-50V
AS18-5V
A8-50
A30-15
S2-MP

Multi-Purpose Low-speed Centrifuge

Capacity
2mlx30
2mlx60
50mlx6
5mlx18
50mlx8
15mlx16
15mlx30
Micro platex8/
Deep well
nlatovA

Hole Diameter (mm)
11.2
11.2
31
17.5
35
17.5
17.5
-

Hole Depth (mm)
39
39
87.8
51
85.8
98
98
98

Max. Tube Height (mm)	Ма
43	
43	
118	
56	
118	
123	
123	

iviax. Speed (rpm)
6000
6000
6000
6000
5000
4500
4000



ESL-1524R

High-speed Refrigerated Micro Centrifuge

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 ensare 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

Max. Speed

Max. RCF

Capacity

Temperature setting

Run Time

Acceleration and deceleration time

Motor Type

Safety Performance

Power Requirements

Noise

Dimensions(mm)

Weight

Other functions

ESL-1524R

15,000rpm (200-15,000rpm) in 100rpm increments.

21,380 \times g, step: $10\times$ g

1.5/2mL \times 24, 0.5mL \times 36, PCR8 \times 4, 5mL \times 12, 5mL \times 18.

-20°C- 40°C

30s-99 min; HOLD (continuous running)

25s ↑ 25s ↓

DC brushless motor

Dual door lock, over-speed detection, over-temperature detection with Internal diagnosis system.

Single-phase, 200V-240V, 50Hz/60Hz, 500W 100V-120V, 50Hz/60Hz, 500W

≤56dB

332(Width) \times 553(depth) \times 283(height)

30kg

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



Centrifuge Body	 1
Fixed angle rotor, V508A	 1
Rotor Extractor	 1
Level	 1
Instruction Manual	 1

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 & $\int\!\!\omega^2$ dt					
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					
Temperature Range	-20℃ to 40℃					
Safety system	Over speed detector, imbalance detector					
	Temperature Limit detector, Door detector					
Dimension	645 x 960 x 1220(H)mm					
Weight	Net. 230Kg					
Power	220V, 3.2Kw, 60Hz					
Certification	CE, KGMP, ISO9001, ISO14001					





Multi-Purpose Refrigerated Centrifuge

Model ESLS-550



Main Feature

Centrifuge Body ,Swing Rotor ESL-R55S , Bucket ESL-C55 , Rack R5015-4C Power Cable , Manual











Rotor

ESL-550

Swing-out Rotor





Micro-plate Rotor



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-551.5ml 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-55conical tube
15ml x 12tubes
12000 RPM, 16035G
R99.6mm

Conical Tube-50ml



V506AC-55 50ml x 6tubes 12000 RPM,16180G R 100.5mm





Pipette Filler Electric ADV

Battery Lithium-ion

Compatible with most of the plastic and glass pipettes from 0.1 -100mL Eight speeds of selection 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 Specifications
Aspiration Speed 25mL<5s (8 shift)
Dispensing Speed Motor (8 shift)/Gravity

Battery Service Life More than 8 Hours of Intermittent Use Charging Time 2-3 Hours Pipette Types Glass or Plastic Pipette (0.1-100mL), Pasture Pipettes Filter 0.45 um Hydrophobic

Filter 0.45µm Hydrophobic

Weight 200g

ESL58570

Micro-pipette Variable Range Basic

Pipettes cover a volume range from 0.1µL to 10mL Ergonomic design provides excellent operating experience Large display window allows for easy volume identification Easy calibration and maintenance

Each Micro Pipette supplied with an individual calibration certificate according to ISO8655 , please select your suitable volume range :

ESL58573	Volume range : 0.1-2.5µl	
ESL58574	Volume range : 0.5-10μl	
ESL58575	Volume range : 2-20µl	
ESL58576	Volume range : 5-50µl	
ESL58577	Volume range : 10-100µl	6
ESL58578	Volume range : 20-200µl	
ESL58579	Volume range : 50-200µl	
ESL58580	Volume range : 100-1000μl	
ESL58581	Volume range : 200-1000μl	
ESL58582	Volume range : 1000-5000µl	
ESL58583	Volume range : 2-10ml	1



Pipette Filler Electric Basic

Enables single-handed operation with minimum effort

Compatible with most of the plastic and glass pipettes from 0.1-100mL

Easily adjustable speed control• 0.45µm replaceable hydrophobic filter

Stable and reliable performance, elegant appearance

High capacity Li-ion battery enable long operation time.

Specifications

Aspiration Speed 25ml<7s

Dispensing Speed Motor/Gravity

Battery Lithium-ion

Battery Service Life More than 8 Hours of Intermittent Use

Charging Time 2-3 Hours

Pipette Types Glass or Plastic Pipette (0.1-100mL), Pasture Pipettes

Filter 0.45µm Hydrophobic

Weight 200g

Suitable for almost all commonly used glass or plastic pipettes.

ESL58569

Pipette Controller

Ease of use

Precise pipetting control

Robust and light weight

Compatible with most of the plastic and glass pipettes from 0.1 -100mL $3\mu m$ replaceable hydrophobic filter

Easy cleaning and maintenance

ESL58568

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

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





Pipette Controller

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

ESL58568

Pipette Pump

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

ESL56391 2 ML ESL56392 10 ML ESL56393 25 ML



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





ESL58570 Pipette Filler ADV

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
- Powerful pump fills a 25mL pipette in<5 seconds
- 0.45µm replaceable hydrophobic filter
- Rechargeable during use

Aspiration operation buttons

Operating button for motor and gravity dispensing

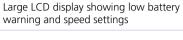
Hydrophobic filter 0.45µm





Specifications

Aspiration Speed	25mL<5s (6 shift)			
Dispensing Speed	Motor (6 shift)/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			





EduScience UK









Auto Pipettes Single Channel



Features

- Fully autoclavable
- Ergonomic design provides excellent operating experience
 Easy-to-read volume display
 - The pipettes cover the volume range from 0.1µL to 5mL
 - Easy calibration and maintenance
 - Manufactured from innovative materials
 - Each MicroPette Plus supplied with an
 - Individual calibration certificate according to ISO8655
 - Online calibration is available

Auto Pipettes Multi-channel



Features

- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assembly allow for easy repair and maintenance
- Compound material-made tip cone secures high sealing performance
- Compatible with most universal tip brands
- Online calibration is available









Fully autoclavable

The ES Automatic pipettes are fully autoclavable, enable easy cleaning and reduce the risk of contamination. Steam autoclaving can be performed at 121°C, 1 bar for 20 minutes. After autoclaving, the pipette must be cooled down and left to dry for 12 hours before use.

It is recommended to check the performance of the pipette after each autoclaving. Greasing and sealing of the pipette piston after every 10th autoclaving will secure an enhanced function.











Pipette Volume Selection

Specifications

This list is appropriate for ES Automiatic plppettes (Adjustable and Fixed volume)

Single-channel Adjustable Volume Pipettes						
				Error limits in accord	ance with ISO8655-2	
Volume Range	Increment	Test Volume	(Accura	cy error)	(Precisio	on error)
			%	μL	%	μL
		2.5µL	2.50%	0.0625	2.00%	0.05
0.1-2.5μL	0.05µL	1.25µL	3.00%	0.0375	3.00%	0.0375
		0.25µL	12.00%	0.03	6.00%	0.015
1		10μL	1.00%	0.1	0.80%	0.08
0.5-10µL	0.1μL	5µL	1.50%	0.075	1.50%	0.075
		1µL	2.50%	0.025	1.50%	0.015
		20µL	0.90%	0.18	0.40%	0.08
2-20µL	0.5µL	10µL	1.20%	0.12	1.00%	0.1
		2µL	3.00%	0.06	2.00%	0.04
		50μL	0.60%	0.3	0.30%	0.15
5-50µL	5-50µL 0.5µL	25µL	0.90%	0.225	0.60%	0.15
		5µL	2.00%	0.1	2.00%	0.1
· · · · · · · · · · · · · · · · · · ·		100µL	0.80%	0.8	0.15%	0.15
10-100μL 1μL	50μL	1.00%	0.5	0.40%	0.2	
	10µL	3.00%	0.3	1.50%	0.15	
		200µL	0.60%	1.2	0.15%	0.3
20-200μL	1µL	100µL	0.80%	0.8	0.30%	0.3
		20µL	3.00%	0.6	1.00%	0.2
		200μL	0.60%	1.2	0.15%	0.3
50-200μL	50-200μL 1μL	100μL	0.80%	0.8	0.30%	0.3
		50μL	1.00%	0.5	0.40%	0.2
		1000µL	0.60%	6	0.20%	2
100-1000µL	5µL	500μL	0.70%	3.5	0.25%	1.25
		100μL	2.00%	2	0.70%	0.7
		1000μL	0.60%	6	0.20%	2
200-1000μL	5µL	500μL	0.70%	3.5	0.25%	1.25
		200μL	0.90%	1.8	0.30%	0.6
		5000μL	0.50%	25	0.15%	7.5
1000-5000µL	50μL	2500µL	0.60%	15	0.30%	7.5
		1000μL	0.70%	7	0.30%	3
†		10mL	0.60%	60	0.20%	20
2-10mL	0.1mL	5mL	1.20%	60	0.30%	15
		2mL	3.00%	60	0.60%	12





Pipette Volume Selection

8-channel Adjustable Volume Pipettes							
Volume			Ε		or limits in accordance with ISO8655-2		
Range	Increment	Test Volume	(Accura	cy error)	(Precisior	n error)	
			%	μL	%	μL	
	1	10µL	1.50%	0.15	1.50%	0.15	
0.5-10µL	0.1µL	5µL	2.50%	0.125	2.50%	0.125	
		1µL	4.00%	0.04	4.00%	0.04	
	1	50μL	1.00%	0.5	0.50%	0.25	
5-50µL	0.5µL	25µL	1.50%	0.375	1.00%	0.25	
		5µL	3.00%	0.15	2.00%	0.1	
		300µL	0.70%	2.1	0.25%	0.75	
50-300µL	5µL	150µL	1.00%	1.5	0.50%	0.75	
		50μL	1.50%	0.75	0.80%	0.4	

12-channel Adjustable Volume Pipettes	12-channel Ac	ljustable V	olume Pipettes
---------------------------------------	---------------	-------------	----------------

Volume				Error limits in accordance with ISO8655-2				
Range	Increment	Test Volume	(Accurac	y error)	(Precision	error)		
			%	μL	%	μL		
		10µL	1.50%	0.15	1.50%	0.15		
0.5-10μL	0.1µL	5µL	2.50%	0.125	2.50%	0.125		
		1µL	4.00%	0.04	4.00%	0.04		
		50µL	1.00%	0.5	0.50%	0.25		
5-50µL	0.5µL	25µL	1.50%	0.375	1.00%	0.25		
		5µL	3.00%	0.15	2.00%	0.1		
		300µL	0.70%	2.1	0.25%	0.75		
50-300μL	50-300μL 5μL	150µL	1.00%	1.5	0.50%	0.75		
		50µL	1.50%	0.75	0.80%	0.4		

Fixed Volume Pipettes

Volume			Er	ror limits in a ISO86	ccordance with 555-2	
Range	Increment	Test Volume	(Accurac	y error)	(Precision	error)
			%	μL	%	μL
5μL	-	5µL	1.3%	0.065	1.2%	0.06
10μL	-	10μL	0.8%	0.08	0.8%	0.08
20μL	-	20µL	0.6%	0.12	0.5%	0.1
25μL	-	25µL	0.5%	0.125	0.3%	0.075
50μL	-	50μL	0.5%	0.25	0.3%	0.15
100µL	-	100µL	0.5%	0.5	0.3%	0.3
200μL	-	200µL	0.4%	0.8	0.2%	0.4
250µL	-	250µL	0.4%	1.0	0.2%	0.5
500μL	-	500µL	0.3%	1.5	0.2%	1.0
1000µL	-	1000µL	0.3%	3.0	0.2%	2.0
2000µL	-	2000µL	0.3%	6.0	0.15%	3.0
5000µL	1	5000µL	0.3%	15	0.15%	7.5

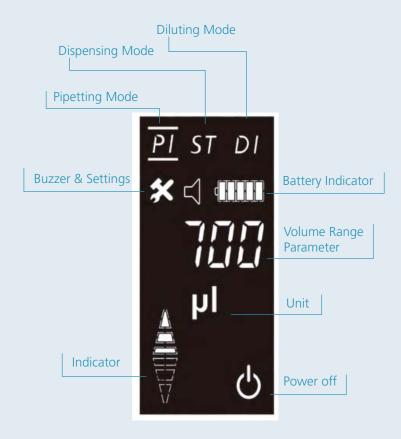




Electronic Pipette











Electronic Pipette

Multi-functional 8-channel Electronic Pipette

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.



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





E Pipette plus Multi functional Electronic Pipette E Pipette

Features

- Motor driven digitally control pipette with multifunctions
- Easy Operations and Handling
- Intuitive menu interface settings; functions and operations
- Minimal force for pipetting operation
- $\bullet\,$ High performance ensuring accuracy & repeatability
- 2 buttons for all operational settings
- Adjustable speed for aspiration and dispensing
- Li-ion battery enable longer operation time
- Convenient and Versatile
- Self-calibration applicable







Specifications

Channels	Volume Range	Increment	Test Volume	accuracy error		precision error	
Channels	μL	μL	μL	μL	%	μL	%
1	0.5-10	0.01	10	±0.10	± 1.00	± 0.05	±0.50
I	0.5-10	0.01	1	± 0.035	±3.50	±0.03	±3.00
1	05-5 1.0		50	±0.40	±0.80	± 0.15	±0.30
1	03-3 1.0	3 1.0		± 0.15	±3.00	±0.125	±2.50
1	30-300	1	300	±1.80	±0.60	±0.60	±0.20
1	30 300	1	30	±0.09	±3.00	±0.21	±0.70
1	100-1000	5	1000	±6.00	±0.60	±2.00	±0.20
1	100 1000	0	100	±3.00	±3.00	±0.60	±0.60

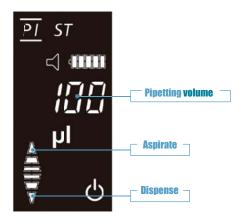
specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655



Electronic Pipette

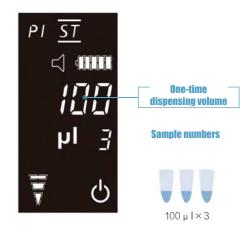
Pipetting function

Parameter Knob press → Pipetting, Long press → Mixing



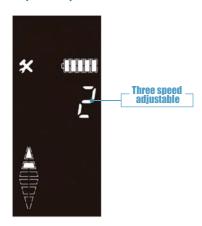
Dispensing function

Dispensing times = Pipette max volume / Single sample volume



Other function

Pipetting speed adjustment Key tone adjustment



Complimentary Pipette Holder

Supports dual charging mode

Automatic Calibration Support Connect it to the computer, with the free software provided for calibration





Contact Charging



Specifications

Channels	Volume Range	lume Range Increment		Accuracy error		Precision error		
Chamicis	μL	μL	μL	μL	%	μL	%	
			10	±2.00	± 0.20	± 1.0	± 0.1	
8	0.5-10	0.01	1	±8.0	±0.08	± 5.00	± 0.05	
0	10, 100	0.1	100	± 0.80	± 0.80	± 0.30	± 0.3	
8	10-100	0-100 0.1	10	±3.00	± 0.3	± 2.00	± 0.2	
8	30-300	1	300	± 0.60	± 1.80	±0.3	± 0.9	
O	30 300	ı	30	± 3.00	± 0.90	± 1.0	± 0.3	

^{*} SD=Standard Deviation * CV=Co-efficient of Variation

^{*} Specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655.





As a necessary choice for quantitative analysis of molecular biology, real-time PCR system has been widely used in various fields such as scientific research, clinical detection and diagnosis, quality and safety testing, and forensic applications.

Thermal Cycler

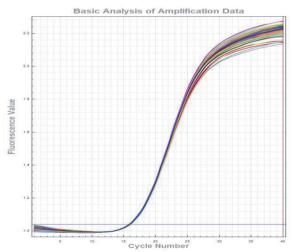
Real-Time PCR System

Features

- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required to reduce sample and reagent use
- Innovative scanning method and time-resolved signal separation technology to improve detection sensitivity
- Unique edge temperature compensation technology to minimize "edge effect"
- User-friendly software
- Innovative technology with long-lastig LED light provides reliability results

Channel 6	Channel 5	Channel 4
NED/Cy3/TAMRA	ROX/Texas Red	FAM/SYBR
543±20/584±20	571±20/610±20	480±10/518±10
VIC/HEX/TET/JOE	CY5/Quasar 670	FAM/SYBR
532±10/564±20	640±20/692±40	480±10/518±10
Channel 3	Channel 2	Channel 1





Technical Parameters

Temperature control system		Detection system		
Sample capacity	0.1ml PCR tubes×96, 8×12 PCR plate or 96 well plate ×1	Excitation light source	5/6 monochrome high efficiency LEDs	
Reaction volume	10-50 μl	Detection device	PMT	
Thermal cycle technology	Peltier	Detection mode	Time-resolved signal separating technology	
Max. Heating/Cooling rate	6.0° C/s	Excitation/detection wavelength range	455-650nm/510-715nm	
Heating temperature range	4 – 100 °C	Fluorescent channels	4/6 channels	
Temperature accuracy	± 0.2°C	Supported dye	FAM/SYBR Green,VIC/HEX ROX,Cy5,Cy3(only for x6)	
Temperature uniformity	±0.2°C @60°C , ±0.2°C @95°C	Sensitivity	Single copy gene	
Temperature gradient setting range	30–100°C	Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR	
Temperature gradient difference setting range	1 – 36°C	Dynamic range	10 orders of magnitude copies	







ESL-C1000-R

Thermal Cycler Regression

ESL-C1000-S

Thermal Cycler Standard

Thermal cycler is essential laboratory instrument in the field of molecular biology research such as sequencing, gene cloning, gene expression, mutagensis applications and applied market like drug discovery, agriculture, food industry, etc.

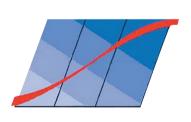


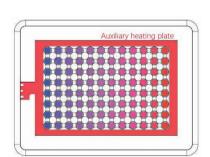


Excellent temperature uniformity



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, optinizing 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







Specifications

Sample Capacity

Sample Capacity
Heating Temperature Range /°C
Lid Temperature Range /°C
Temperature Display Accuracy /°C
Temperature Display Accuracy@55°C
Temperature uniformity@55°C
Max. Heating/Cooling Rate
Gradient Temperature Setting Range /°C
Gradient Range /°C
Adapter block material
Display
Input
User defined file system
Power off protection

Power Supply Dimension[WxDxH]

Weight

ESL-C1000-R

06V0 2ml DCP tubo

96X0.2mL PCR tube, 8X12 PCR plate or 96 well plate
4~105
30~110
±0.1
±0.3
<0.3
5°C/Sec
30~99°C
1~42°C
Aluminum
7" LCD 800x480
Touch panel
Max. 30 segments 99 cycles max. 16 folder and 16 files each folder
Yes

100~120V/200~240V,50/60Hz

280x370x250 mm

11kg



Appliances

96X0.2mL PCR tube,

8X12 PCR plate or 96 well plate
4~105
30~110
±0.1
±0.3
<0.3
5°C/Sec
-
-
Aluminum
7" LCD 800x480
Touch panel
Max. 30 segments 99 cycle max.16 folder and 16 files each folder
Yes
100~120V/200~240V,50/60Hz
280x370x250 mm

11kg



ESL-R100-Pro

Digital Rotary Evaporator



LCD Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle emoval of solvents from samples by evaporation. It iffers an excellent distilling solution in a wide range of pplications.

eatures

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.



Large LCD display



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

Specifications

Motor Type
Speed Range
Display
Clockwise and Anti-clockwise
Heating Temperature Range
Control Accuracy
Heating Power
Stroke Displacement
Timer
Time Setting Range
Dimension[D×W×H]
Weight
Permissible Ambient Temperature
Permissible Relative Humidity
Protection Class
USB Interface
Voltage/Frequency
_

FSI_R100_Pr

ESL-R100-Pro
Brushless DC motor
20-280rpm
LCD(speed, temperature, time)
Yes
Room temp. to 180°C
water: ±1°C oil: ±3°C
1300W
automatic 150mm
Yes
1-999min
465×457×583mm
15kg
5-40°C
80%RH
IP20
Yes
100-120/200-240V 50/60 Hz



ES-2303CS / 2303CL

Cold Lab Chamber

Product Features



EC COCCO

Cold Lab



EC COCCO

- Can be used for low temperature testing and refrigeration storage
- Special pair glass door that does not cause condensation
- Precision temperature controller that can be set in 0.1 degree increments
- Waterproof lamp for internal verification and key lock for security
- Forced circulation method to increase temperature uniformity
- Urethane insulation structure with excellent low temperature retention
- · Wire shelf with adjustable height
- Independent overheating and overcooling prevention safety device
- Built-in temperature abnormality detection device (Alarm)
- RS-232C communication port built- in
- Convenience devices such as Access Hole and Outlet (Option)
- Recorder to monitor internal temperature (Option)

Chamber	ES-2303CS	ES-2303CL
Dimension (in)	610(W) x 680(D) x 1450(H)mm	1370(W) x 680(D) x 1450(H)mm
(out)	740(W) x 805(D) x 1910(H)mm	1500(W) x 805(D) x 1910(H)mm
Capacity	600ℓ	1,350ℓ
Shelves	4EA	8EA / 좌·우 각 4EA
Door	Tempered Safety Glass, 1 Door	Tempered Safety Glass, 2 Door
Refrigerator	1/4HP, R-134A	1/3HP, R-134A
Power	220V, 680W, 60Hz	220V, 720W, 60Hz
Temp. Range	0 ~ 10℃	
Temp. Controller	Digital P.I.D Controller	
Temp. Uniformity	±2℃ at 4℃	
Display	LED Digital Display	
Illumination	LED Lamp	
Recorder	Thermal Recorder (Opti	on)
Defrost Device	Automatic Type	
Material (in)	Stainless Steel	
(out)	Steel with Powder Coat	ing
Utility & Safety Device	Exclusive High & Low Te Key lock, RS-232C Port	emp. Protector,





- **ES-2303CS**
- ▶ ES-2303CL





Flake Ice Maker ELS-625FS / ESL-625F / ESL-625

/ Flake Type Ice Maker

Full Automation System

Screw Turbine

/ Level

Flake Ice Maker	ESL-625FS	ESL-625F	ESL-625
Production/ Day	80kg	120kg	180kg
Storage Capacity	58Liter	120Liter	120Liter
Compressor	1/3HP , R404A	1/3HP, R404A	1/2HP ,R404A
Dimension (in)	345 x 450 x 375(H)mm	450 x 425 x 630(H)mm	485 x 485 x 510(H)mm
(out)	600 x 560 x 740(H)mm	675 x 560 x 1,065(H)mm	990 x 635 x 1,190(H)mm
Material (in)	Stainless steel	Stainless Steel	Stainless Steel
(out)	Stainless	Stainless Steel	Steel with Powder coating
Weight	61Kg	83Kg	125Kg
Power	220V, 800W, 60Hz	220V, 800W, 60Hz	220V, 1.3KW, 60Hz
Ice Type	Flake Type Ice	·	
Door	Front PC Door		
Safety Device	Power Circuit Breaker, Ice Lev	vel Sensor, Water Level Sensor	
Accessory	Drain & Supply Hose, Scoop		



Flake Type Ice



Water Filter WF-001 ***

FLAKE ICE

AUTO-

MATIC

WATER

SCREW TURBIN

Safety (WATER, LEVEL)



Water Filter WF-004



Water Pump WP-001







ESL-625



Laminar Flow Clean Bench

Model: ESL-700LV

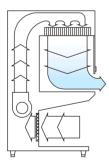
Features

- Micro processor control
- Easely 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

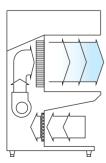


Suction Pump
Option





Vertical air flow



Horizontal air flow

MODEL		ESL-700LVN	
Туре		Vertical air flow Type	
Main Control		Microprocessor Control with Touch pad	
Purity		Lower than class 100	
Main Filter		HEPA Filter(99.99% efficient at 0.3micron particles)	
Pre filter		Nylon material	
Dimension (W x D x H) (mm)	(In)	1200 x 620 x 710	
	(Out)	1320 x 790 x 1920	
Matarial	(In)	Stainless steel	
Material	(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

Model: ESL-801SC, ESL-802SC, ESL-803SC, ESL-804SC

Features

- Micro processor control
- Easely 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		ESL-801SC	ESL-802SC	ESL-803SC	ESL-804SC
OM D. II) ()	(In)	960 x 580 x 670	1160 x 580 x 670	1460 x 580 x 670	1660 x 580 x 670
	(Out)	1100 x 770 x 2130	1300 x 770 x 2130	1600 x 770 x 2130	1800 x 770 x 2130
Туре		Bio hazard safety Type, Class II Type			
Main control Micro processor 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 mounted			
Working table		Easy removable plate			
Material		Working table : Stainless steel SUS 304			
		Cabinet : Steel plate with	plate with powder coating		
Illumination 4		40W Fluorescent lamp x 2EA			
UVG Lamp		40W x 1EA			
JV Timer 15, 30, 60min or Hold		15, 30, 60min 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			









LAB WARE





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