

UL, WB

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
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Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

Ultrasonic Cleaners

Analogue Ultrasonic Cleaning Baths



- ◆ Tank and housing all stainless steel
- ◆ Integral heater with dial setting and separate on/off switch (except models U100 and U300); range ambient to +70°C
- ◆ Integral timer with dial setting from 0 to 15 minutes and separate on/off switch
- ◆ Integral side handles allow bath to be moved easily and safely
- ◆ Models U500H and U2500H have a built-in tank drain
- ◆ Supplied with stainless steel basket and ABS lid which can also be used as a drip tray when removing the basket

Catalogue no.		UL110-20	UL110-25	UL110-35	UL110-40	UL110-45	UL110-80
Model		U100	U100H	U300	U300H	U500H	U2500H
Capacity, maximum, litres		1.75	1.75	2.75	2.75	5.0	28.0
	working, litres	1.5	1.5	2.5	2.5	4.5	25.0
Peak output	W	35	35	35	35	100	400
Heater power	W	—	80	—	150	150	650
Timer		0 to 15 minutes — all models					
Bath dimensions							
Internal (Overall)	W, mm	150 (180)	150 (180)	240 (270)	240 (270)	300 (330)	500 (550)
	D, mm	140 (160)	140 (160)	140 (170)	140 (170)	150 (180)	300 (345)
	H, mm	100 (190)	100 (190)	100 (210)	100 (210)	150 (275)	200 (365)
Weight, empty	kg	3.2	3.2	4.2	4.2	8.5	17

Analogue Ultrasonic Cleaning Baths

With stainless steel tank and outer case, integral heater and timer where indicated, ABS lid and stainless steel basket. For 230V 50/60Hz single phase supplies.

- UL110-20** Model U100, 1.75 litres, timer
- UL110-25** Model U100H, 1.75 litres, timer/heater
- UL110-35** Model U300, 2.75 litres, timer
- UL110-40** Model U300H, 2.75 litres, timer/heater
- UL110-45** Model U500H, 5.0 litres, timer/heater
- UL110-80** Model U2500H, 28.0 litres, timer/heater

Note:

Items to be cleaned should not be allowed to rest on the bottom of the tank during operation. We recommend all items are cleaned within the stainless steel basket provided.



UL110-20



UL110-45

Ultrasonic Cleaners

Digital Ultrasonic Cleaning Baths



- ◆ Stainless steel tank with rugged, industrial plastics housing
- ◆ Tank capacities 2.50 to 25.00 litres
- ◆ Combined frequency sweep and Leap-and-degas ultrasonics ensure superior cleaning activity and results
- ◆ Digital setting and readout of timer and heating
- ◆ Heating range ambient +5°C to +70°C
- ◆ Built-in SD Flash memory card slot enables storage and download of procedural records to the user's PC
- ◆ Easily accessible tank drain included
- ◆ Supplied with stainless steel basket and tight-fitting, ABS lid

Specifications:-

Catalogue No.		UL325-25	UL325-30	UL325-35	UL325-40	UL325-45
Model		QS5	QS10	QS12	QS18	QS25
Capacity,	litres	4.50	9.50	12.50	17.50	25.00
Peak power,	W	100	200	200	300	400
Heater	°C	Ambient +5 to +70 — all models				
Timer		0 to 99 minutes — all models				
Bath dimensions*	mm					
Internal	D	150 (267)	150 (267)	200 (366)	200 (366)	200 (366)
(External)	L	300 (345)	500 (350)	295 (345)	330 (374)	500 (551)
	W	150 (200)	150 (183)	245 (288)	300 (347)	300 (347)
Weight	kg	5.6	8.5	10	13	17

*All dimensions are nominal. All tanks have radiused corners.

Digital Ultrasonic Baths, Ultrawave

As described. Supplied with tight-fitting ABS lid, stainless steel basket, SD memory card slot and drain. For 230V 50/60Hz single phase supplies. Supplied without SD memory card.

- UL325-25** Model QS5
- UL325-30** Model QS10
- UL325-35** Model QS12
- UL325-40** Model QS18
- UL325-45** Model QS25

Note:

Items to be cleaned should not be allowed to rest on the bottom of the tank during operation. The use of an accessory basket is recommended to avoid this.



UL325-15



UL325-25

Washing

Cub Laboratory Glassware Washing Machines

Underbench machines offering a choice of:

Washer only

Washer/Hot Air Dryer

- ◆ Compact size
- ◆ 10 standard programmes covering most chemical or biological washing applications
- ◆ Microprocessor controlled programming
- ◆ Membrane keypad and backlit, graphics LCD readout with clock, calendar, timer, temperature, programme or machine status outputs, alarm function and troubleshooting menu
- ◆ Drop-down door for easy loading
- ◆ Hot and cold water filling
- ◆ No special plumbing required
- ◆ Dispenser for liquid detergent
- ◆ Wash and rinse temperatures up to 95°C
- ◆ Built-in water softener
- ◆ Acid rinse and distilled/deionised water rinse facilities
- ◆ Front opening easy access door
- ◆ Separate RS232 serial ports for printer and PC connection if required

Additional Features for Dryer Model

- ◆ Drying by HEPA-filtered hot air
- ◆ Drying time/temperature selection
- ◆ Programme cycle times can be extended by up to 60 minutes each

Facilities

Ten standard programmes are provided by the microprocessor controller, all individually designed and tested for specific chemical or biological washing applications. In addition a further 40 custom programmes may be defined by the operator, if required.

Detergent. Built-in dispensers for liquid detergent.

Distilled/Deionised Water Rinse. Built-in pump for non-pressurised (e.g. storage aspirator) distilled/deionised water rinse. Can also be operated on pressurised distilled/deionised water supplies.

Neutralization/Acid Rinsing. Built-in pump automatically injects required amount of solution directly into washing machine chamber.

Water softener: Regeneration takes place automatically, only needs periodic addition of salt.

Hot Air Drying. The integral, compact unit directs hot air either into the individual spigots of the jet rack used, or into the wash chamber when using baskets, trays and special purpose racks.

Cleaning concentrates for use in washing machines – see *CL565 to CL615*

Installation and Services

Hot and cold water supplies are through flexible hoses. A separate distilled /deionised water inlet is provided. The emptying hose requires a discharge drain tube with inlet set from the floor minimum 320mm, maximum 800mm.

Water pressure: 1.5 to 5 bar for hot, cold and pressurised distilled. 0 to 0.5 bar for unpressurised distilled.

Power requirements: 230V 50Hz single phase, 30A, 2.8kW.

Dimensions

	H x W x D, mm
Washing chamber	610 x 520 x 490
Overall	
Washer model	845 x 600 x 645*
Washer/Dryer model	845 x 900 x 645*
Weight empty	85kg (120kg Dryer model)

*The door extends a further 610mm when open.

Effective washing heights

With basket trays on two levels
bottom level = 280mm, top level = 190mm

With Jet racks on two levels
bottom level = 240mm, top level = 205mm

With Jet rack on bottom level only = 460mm

Fittings

The washing machine is supplied empty and requires basket trays with spray arms or jet racks for operation. Please refer to WB218/WB220 for details.

continued on next page



WB200



WB210

Washing

Cub Washing Machines continued

Glassware Washer, Cub

As described. Supplied empty without basket trays and spray arms that are required for operation. For 230V 50Hz single phase supplies, 30A.

WB200-45 Washer

Glassware Washer/Dryer, Cub Extra

As described. With integral hot air drying unit. Supplied empty without basket trays and spray arms that are required for operation. For 230V 50Hz single phase supplies, 30A.

WB210-50 Washer/Dryer

Note

Orders for glassware washers can only be processed after completion of an installation check list detailing the user's water/electrical supply requirements. Please contact us for details.

Standard Basket Trays

With spray arms. Universal basket trays suitable for washing wide mouth vessels, beakers, petri dishes, evaporating basins etc. and for test tubes held vertically in accessory baskets. One each upper and lower level baskets are recommended for use in WB200/WB210.

WB218-10 Upper level tray

WB218-20 Lower level tray

Jet Racks

Provide thorough internal washing of narrow necked vessels, volumetric flasks, medical flats, small cylinders etc. on two levels.

	For machines	Hollow spigots
WB220-30	WB200/WB205	68 each
WB220-35	WB210/WB215	68 each



Bottle/Tube Washers

Baskets, Stainless steel mesh, wedge shape

For test tubes. For use on lower basket tray.

WB224-20 105mm high

WB224-26 165mm high

WB224-32 200mm high

Petri Dish Rack

Plastic coated stainless steel. For use on lower level only. For 38 dishes, from 70 to 100mm diameter.

WB230-20 Petri dish rack

Beaker/Bottle Support

Supports up to 28 items. Two supports can be used on each of the upper and lower basket trays.

WB232-10 Beaker/Bottle support

Bottle Washer

For rinsing the interior of bottles and other containers with neck diameters between 9.5 and 100mm and approximately 75mm minimum height. The spring loaded nozzle, when depressed by an inverted bottle, ejects jets of water. Waste water is dispersed through channels in the sloping distributor. The water flow ceases when the bottle is removed from the nozzle. Supplied with centre vertical nozzle, four-arm horizontal distributor, heavy base and 1 metre of hose.

WB450-10 Bottle washer

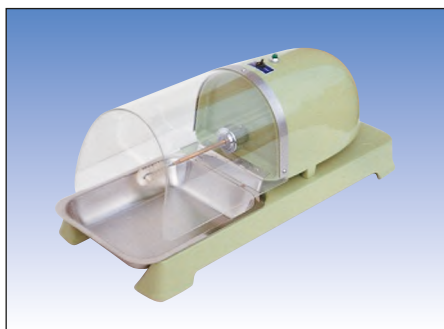
Brushing Washer

For cleaning the inside of small bottles, test tubes and similar glassware using an electrically driven brush. Comprising a quiet running motor with quick release chuck within an enamel painted aluminium housing. A transparent plastic shield extends over the rotating brush and stainless steel drip tray. Overall 270 x 630 x 255mm W x D x H. Weight 14kg. For 220-240V 50Hz single phase supplies. Without brushes.

WB500-10 Brushing washer



WB450



WB500 in use

Pipette/Burette Washers

Accessory Brushes

For bottles and similar containers.

	Approximate capacity ml
WB504-20	100/125
WB504-30	200/250

For test tubes

	Approximate diameter mm
WB506-10	6
WB506-20	10
WB506-30	13
WB506-40	16
WB506-45	19
WB506-55	25

Pipette/Burette Washers

Heavy duty polyethylene. Modular system, comprising a basket which holds the items to be cleaned and fits inside the soaking jar. After soaking the basket is transferred to the siphoning rinser which is connected to a mains water supply. The fill/drain siphoning cycle repeats automatically for as long as the rinsing water flows at the correct rate. Require a source of mains water and a suitable waste water drain. For pipettes and burettes up to 600mm long. Individual components must be ordered separately, as required.

	Item	Int. dia. mm	Ht. mm
WB610-14	Rinser	165	740
WB610-24	Jar	165	650
WB610-34	Basket	130	650

Burette Brushes etc. – see *Brushes* section.

Cleaning Baths – see *Ultrasonics* section.



WB610-14



WB610-24

WB610-34

Washing

Colour Coded Washbottles, Narrow Neck

Azlon

Washbottles, Azlon traditional

Round, square shouldered bottle with swan neck jet and screw closure. Natural polyethylene with white closure. Supplied in packs of 5.

	Ref. WGF-	Cap. ml
WB706-25	230P	250
WB706-30	236P	500

Washbottles, Azlon sloping shoulder

Round, sloping shoulder bottle with swan neck jet and screw closure. Natural polyethylene with white closure. Supplied in packs of 5.

	Ref. WGF-	Cap. ml
White closure		
WB726-25	330P	250
WB726-30	336P	500
WB726-40	240P	1000

Washbottles, Azlon integral jet

Squared oval bottle with integrally moulded tube and removable jet tip. Natural polyethylene with screw closure. Registered design 974610. Supplied in packs of 5.

	Ref. BGF-	Cap. ml
WB750-25	130P	250
WB750-30	136P	500

Quickfit Washbottles – see *Quickfit* section.



WB706



WB726



WB750

Washing

Colour Coded and Printed Washbottles, Narrow Neck, continued

Azlon

Washbottles, Azlon, printed

Round, sloping shoulder bottle with swan neck jet and screw closure. Natural polyethylene with colour coded printing and cap. Supplied in packs of 5.

	Ref. WGF-	Cap. ml	Colour code
Printed "Distilled Water"			
WB818-25	600P	250	White
WB818-30	601P	500	White
Printed "Water"			
WB820-25	530P	250	White
WB820-30	536P	500	White
Printed "Acetone"			
WB822-25	531P	250	Red
WB822-30	537P	500	Red
Printed "Methanol"			
WB824-25	532P	250	Green
WB824-30	538P	500	Green
Printed "Isopropanol"			
WB826-25	533P	250	Blue
WB826-30	539P	500	Blue
Printed "IMS"			
WB828-25	534P	250	Yellow
WB828-30	540P	500	Yellow
Printed "Ethanol"			
WB830-25	535P	250	Orange
WB830-30	541P	500	Orange



WB818/WB830

Washbottle Carriers

Bottle carriers, Azlon wire

Epoxy coated steel wire for carrying up to six bottles or washbottles.

	Ref. BGS-	For bottles max. dia.mm
BT512-10	040	60
BT512-20	042	74

Drip trays – see BT595.



BT512 in use

Washing

Colour Coded and Printed Washbottles, Wide Neck

Azlon

- ◆ Wide neck for easy, spill-free filling
- ◆ Leakproof closure with swan-neck spout

Washbottles, wide neck Azlon

Round shape in flexible natural polyethylene (LDPE) with leak-proof colour coded closure and spout. Labelled versions also available as indicated. All bottles marked with SPI recycling codes on the base. Supplied in packs of 5.

	Ref. WGW-	Capacity ml
Blue closure		
<i>WB875-10</i>	234P	250
<i>WB875-12</i>	235P	500
<i>WB875-14</i>	446P	1000
Green closure		
<i>WB875-26</i>	233P	250
<i>WB875-28</i>	239P	500
<i>WB875-30</i>	447P	1000
Red closure		
<i>WB875-40</i>	231P	250
<i>WB875-42</i>	237P	500
<i>WB875-44</i>	445P	1000
White closure		
<i>WB875-56</i>	230P	250
<i>WB875-58</i>	236P	500
<i>WB875-60</i>	443P	1000
Yellow closure		
<i>WB875-70</i>	232P	250
<i>WB875-72</i>	238P	500
<i>WB875-74</i>	444P	1000
Printed "Deionised Water", white closure		
<i>WB890-10</i>	602PML	250
<i>WB890-12</i>	603PML	500
Printed "Distilled Water", white closure		
<i>WB890-20</i>	600PML	250
<i>WB890-22</i>	601PML	500
Printed "Water", white closure		
<i>WB890-30</i>	530PML	250
<i>WB890-32</i>	536PML	500

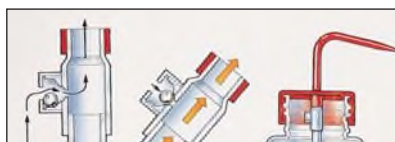


WB875

Washbottles for flammable liquids and solvents, wide neck Azlon, printed

Round shape in flexible natural polyethylene (LDPE). With integral valve mechanism which automatically vents any volatile vapour, depressurising the bottle and eliminating potentially hazardous liquid "drip". Printed with a variety of multilingual solvent labels (English, French, German, Spanish) including a blank for customer use. The printing has been tested for solvent resistance and each label contains a selection of international hazard identification codes including GHS pictograms, NFPA diamonds, risk phrases and safety information. All bottles are marked with SPI recycling codes on the base. Printing and closure colours as indicated. Supplied in packs of 5.

	Ref. WGW-	Capacity ml	Colour code
Printed "Acetone"			
<i>WB950-10</i>	531VTML	250	Red
<i>WB950-12</i>	537VTML	500	Red
Printed "Isopropanol"			
<i>WB950-20</i>	533VTML	250	Blue
<i>WB950-22</i>	539VTML	500	Blue
Printed "Methanol"			
<i>WB950-30</i>	532VTML	250	Green
<i>WB950-32</i>	538VTML	500	Green
Printed "Ethanol"			
<i>WB950-40</i>	535VTML	250	Orange
<i>WB950-42</i>	541VTML	500	Orange
Printed "IMS"			
<i>WB950-50</i>	534VTML	250	Yellow
<i>WB950-52</i>	540VTML	500	Yellow
Blank			
<i>WB950-90</i>	001VTML	250	White
<i>WB950-92</i>	002VTML	500	White



WB950 Venting system



WB890 and WB950

Washing

Colour Coded and Printed Washbottles, Wide Neck, continued

Azlon

Washbottles, Integral Spout, Wide Neck, Printed

500ml capacity. Round shape in flexible natural polyethylene (LDPE) with integral delivery tube and spout and colour-coded, polypropylene closure. Printed with a variety of multilingual solvent labels with international hazard identification codes. All bottles are marked with SPI recycling codes on the base. Printing and closure colours as indicated. Supplied in packs of 5.

	Ref. WGW-	Label	Colour code
WB965-14	801P	Distilled Water	White
WB965-24	802P	Acetone	Red
WB965-34	803P	Methanol	Green
WB965-44	804P	Isopropanol	Blue
WB965-54	805P	Ethanol	Orange

Washbottles, Tracker, Wide Neck

Round shape in flexible natural polyethylene (LDPE) pre-printed with labelling areas for bottle contents, originator, preparation date, first use and expiry dates, lot number and COSHH hazard data symbol position. Vented, with 250ml or 500ml versions available. Supplied with a pack of self-adhesive hazard warning labels. Information is easily inscribed using accessory solvent-based marker pens. Supplied in packs of 5.

	Ref. WGW-	Capacity ml
WB975-50	250P	250
WB975-52	500P	500

Ink Markers, Laboratory

Ideal for marking polystyrene petri dishes, metal, glass and most plastics, cold (above 0°C) or moist surfaces. Water and alcohol resistant, autoclavable ink. Can be removed from non-porous surfaces by scrubbing with detergent. Colours as indicated. Supplied singly.

LA620-04	Black
LA620-08	Red
LA620-12	Blue
LA620-16	Green

Washbottles, LDPE, Bleach, Wide Neck

Wide neck, round shape, opaque white LDPE washbottles for light-sensitive sodium hypochlorite (bleach) with multilingual labelling in English, French and Spanish, GHS symbols, NFPA diamond, risk phrases and safety information and one-piece, yellow PP dispensing closures. Supplied in a pack of 5.

Note: for dispensing only, not suitable for storage.

WB979-10 WGW401PML

Washbottles, Polypropylene, Wide Neck

Round shape, wide neck, 500ml washbottles in translucent polypropylene, printed with multilingual (English, French, German and Spanish) solvent labels and international identification codes including GHS pictograms, NFPA diamonds, risk phrases and safety information. Fitted with unvented polypropylene dispensing closures in colours as indicated. Supplied in packs of 5.

Note: these bottles are not autoclavable.

	Ref. WGW-	Label	Closure colour
WB982-15	701PP	Dichloromethane	White
WB982-25	703PP	Methyl Ethyl Ketone	Green

Washbottles, Polypropylene, Autoclavable

Round shape, 500ml washbottles in translucent polypropylene, autoclavable* at 121°C. Fitted with white, unvented polypropylene dispensing closures and labelled "Autoclavable". Supplied in packs of 5.

WB984-10 WGW700PP

*Note: bottles should be autoclaved empty or only if containing non-flammable and/or non-hazardous solutions. Always loosen or remove the cap to prevent implosion.



WB982-25, WB982-15 is similar



WB965



WB975



WB979



WB984

Washing

Spray Bottles, LaboPlast®



Pressurised

Capacity 1500ml. Robust, industrial quality, pressurised spray bottle for use in varied applications including visualisation of colourless components on TLC plates, cleaning, disinfection or plant protection. In use, a hand pump pressurises the container up to 4 bar and the spray can then be activated by a separate push button. Materials in contact with the sprayed solution are polypropylene, high density polyethylene, fibre-glass reinforced polyamide, stainless steel and fluorocarbon rubber.

An accessory, 300mm long, extension lance allows precise spraying into restricted spaces or the operator to remain further away from the spray area. Supplied singly.

WB988-10 Spray bottle

WB988-17 Accessory 300mm extension lance for WB988-10

Trigger-action

LDPE bottle and PP, trigger-action spray head with adjustable nozzle and stainless steel ball valve. Each stroke dispenses approximately 1.2ml. Supplied singly.

	<i>Bottle Cap. ml</i>	<i>Overall height mm</i>
BS835-42	250	220
BS835-50	500	240
BS835-82	1000	295



WB988-10 in use with WB988-17



BS835

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Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
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