

Langford Sonomatic Ultrasonic Cleaners & Accessories



Models T80, 175



Models 375, 475, 575

All British high quality units with outer case and cleaner tank manufactured from rigid stainless steel. Power source uses double halfwave high frequency generators resulting in extremely efficient cleaning.

These cleaners are maintenance free, CE marked and there are models available with temperature control of the cleaning fluid (set at either 60°C or variable from 20°C to 80°C). The ultrasonic cycle time is fixed at either 15 minutes or (optionally) adjustable from 0 - 60 minutes.

Accessories: Lids (ABS) and Baskets (stainless steel).

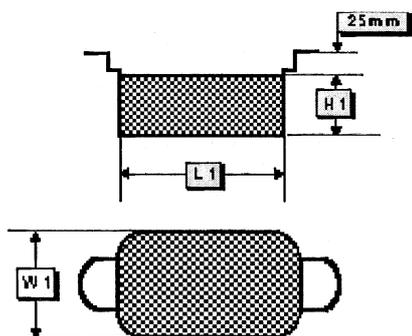
Sonomatic Ultrasonic Cleaners

Catalogue Number		C075	C135	C152	C152/H	C152/TT	C136	C136/H	C136/TT	C137	C137/H	C137/TT
Model Type		T80	T175	375			475			575		
Overall Dimensions (mm)	Height	175	175	310			310			370		
	Width	110	165	162			162			175		
	Length	135	175	200			250			250		
Weight (Kgs)		1.4	2.4	2.7			3.5			4.1		
Internal Dimensions (mm)	Height	151	151	240			240			300		
	Width	83	137	135			135			150		
	Length	65	100	100			150			150		
Tank Volumes (litres)		0.6	1.6	2.3			3.6			4.9		
High Frequency Peak Power (watts)		80	100	150			300			300		
High Frequency Power Output (watts)		-	-	75			150			150		
Frequency approx. (kHz)		40	40	40			40			40		
Power Consumption (watts)		80	90	100	290	290	200	410	410	200	460	460
Fuses (all types) (A)		1,0M	1,0M	© 2,0M ^a			© 3.15M ^a			© 3,15M ^a		
Heating Capacity (watts)		n/a	n/a	n/a	200	200	n/a	300	300	n/a	300	300
Temperature Control of Tank Fluid												
Approx. 60° thermostatic control		n/a	n/a	n/a	✓	n/a	✓	n/a	n/a	n/a	✓	n/a
Thermostatic control 20-80°C		n/a	n/a	n/a	n/a	✓	n/a	✓	n/a	n/a	n/a	✓
Timer Control, Ultrasonics												
Preset fixed cycle time, max. 15 mins		✓	✓	✓	✓	-	✓	✓	-	-	-	✓
Adjustable from 0 - 60 mins		-	-	-	-	✓	-	-	✓	-	-	✓

Larger models available on request

Stainless Steel Baskets

Basket dimensions external in mm.
Maximum tolerance approx. ± 5 mm



To fit model	Basket size mm Length x Width x Height	Load Kg	Mesh size mm	Catalogue no
T80	110 x 60 x 60	0.5	6 x 6	C075/B
175	120 x 110 x 60	0.5	6 x 6	C135/B
375	200 x 105 x 66	5.0	10 x 10	C152/B
475	200 x 105 x 105	5.0	10 x 10	C136/B
575	255 x 120 x 120	5.0	10 x 10	C137/B

Lids

ABS lids are available to cover the tanks of the above ultrasonic baths with contours to cover basket handles. This limits evaporation and ensures a safer working environment. See main pictures on previous page.

Beaker Support Trays

These hold glass beakers at a precise depth in the driving liquid (e.g. water plus a wetting agent) which improves cavitation and promotes the ultrasonic pulses through the glass. Other advantages are the possibility to use more than one cleaning solution at the same time and all removed soil stays in the beaker for examination, filtering or to be discarded. The use of beaker support trays also limits the volume of cleaning solution/solvent needed and permits use of acid or caustic fluids.

C135/T Beaker support tray S/S single 600mm hole for models T80, 175 & 375

C136/T Beaker support tray S/S two 400mm holes for models 375 & 575

Beakers

B180 Beaker 400ml Pyrex glass

B185 Beaker 600ml Pyrex glass

O079 Beaker 'O' ring 400ml beaker - neoprene rubber

O080 Beaker 'O' ring 600ml beaker - neoprene rubber

Ultrasonic Degreasing Solvents

'**ARKLONE**' (trichlorotrifluoroethane) No longer available. Please contact us for further information.

C077 Arkclone cleaning fluid 500ml

C077/1 Arkclone cleaning fluid 5 litres

'**PROPAKLONE**' (a stabilised mixture of 111-trichloroethane and n-propanol) No longer available.

C202 Propaklone 1 litre **C202/1** 500ml **C203** 5 litres **C203/1** 2½ litres

'**INHIBISOL**' (111-trichloroethane) No longer available. Please contact us for further information regarding a replacement.

D054 Inhibisol solvent 5 litres

D075 Inhibisol solvent 1 litre

D074 Inhibisol solvent 500ml

'**QUADRALENE**' (a cleaning fluid based on 111-trichloroethane) is used for removing oil and tarnish from metal surfaces.

C076 Quadralene cleaning fluid 5 litres

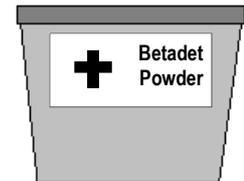
Surface Cleaning Agents

BETADET 101 Solution A safe and very economical laboratory decontaminating agent. Betadet 101 has a pH of 7.4 and is 12x more concentrated than conventional agents. It is phosphate free, biodegradable, non-corroding, non-etching and suitable for use on glass, plastics, ceramics, G.R.P., stainless steel, ferrous metals and alloys. It can be used for *manual* or *ultrasonic* cleaning. Effective in dilution of 7-10 mls per 5 litres of water but can be used stronger if required. *Not to be used in washing machines*



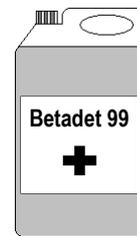
D085 Betadet 101 solution 5 litres

BETADET Powder An easily soluble low-foaming powder for either hand or machine wash methods. A 1% solution in boiling water provides excellent decontamination of glassware etc. Suitable for use on alloys, glassware, plastics, ceramics and stainless steel.



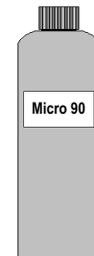
D088 Betadet powder 5 Kg
D089 Betadet powder 25Kg

BETADET 99 Solution An effective water rinseable surface cleaning agent for hand wash decontamination methods. Ideally suited for all laboratory and medical cleaning needs it is an effective radioactive decontaminant. Betadet 99 is phosphate-free, biodegradable and can be used on glass, plastics, ceramics, G.P.R., stainless steel and ferrous metals. *Not for use in washing machines.*



D086 Betadet 99 solution 5 litres
D087 Betadet 99 solution 5 x 5 litres

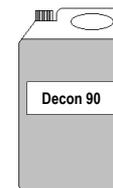
MICRO-90 is a multi-purpose biodegradable cleaner that can be used with manual or automated cleaning methods in a wide range of applications including soaking, dipping, brushing, spraying, flushing, agitation and ultrasonics. It can be used in most cases as a less hazardous **substitute for chromic acid** for cleaning glassware of lipid and protein contamination. It can be used to remove oil, grease, resin, tar, wax, biological material, insoluble oxides, fine particles and many other soils. Used as a 1-2% solution.



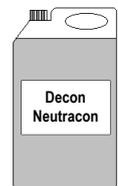
D201 Micro-90 concentrate 1 litre D202 Micro 90 conc. 10 litres

DECON 90™ is a general purpose, biodegradable surfactant especially suitable for biological and radioactive work. Has a pH of 10.7 in water.

C209 Decon 90 5 litres



DECON Neutracon is a near neutral, phosphate free, biodegradable concentrate and is an excellent laboratory equipment cleaner. It is particularly suitable for alkali sensitive materials such as aluminium, brass, copper silver and silica glass.



C215 Decon Neutracon 5 litres

Cloths and Wipes

Kimwipes Tissues & Cloths

Strong **general purpose** disposable cleaning tissues 25 x 43cm

K057 Kimwipe tissues box of 150 sheets



K057

Kimwipe disposable **service cloths** for heavy duty mopping and cleaning 49 x 38cm

C125 Kimwipe service cloths pack of 50 cloths



C125

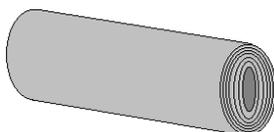


Kimwipe Dispenser & Wipes

An easy to install **paper towel dispenser** the ideal way to provide cleaning wipes for the laboratory. It conveniently fits on walls or cupboards where space is often wasted. There are no exposed metal parts or sharp edges and wipes are kept dust and moisture free. The unique shaped opening plus roll perforations ensure a clean, economical cut-off. **Extra strong, white 2-ply soft wipes**, very absorbent and perforated to give wipes of 25cm x 39cm.

- D076** Dispenser
D077 Disposable wipes, 2-ply pack of 6 rolls

Blue Kimwipes and Dispensers



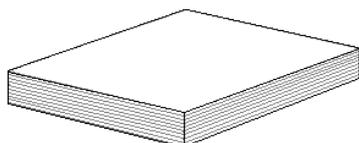
Extra strong industrial 2-ply blue wipes, each roll having 100 perforated sheets 20" (51cm) wide or 100 sheets 10" (25.4cm) wide.

- K059** Blue disposable wipes 20" (51cm) wide roll
K060 Blue disposable wipes 10" (25.5cm) wide roll

Blue Kimwipe Dispensers, white plastic for wall or bench mounting

- K061** Dispenser for 20" (51cm) wide rolls each
K062 Dispenser for 10" (25.5cm) wide rolls each

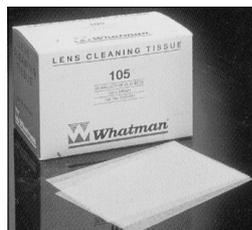
Lint & Acid Free Tissue Paper



A substitute for Velin tissue that is acid-free, white, 17GSM, machine glazed, bleached tissue. Ideal for wrapping clean microscope parts or other delicate items as it will not tarnish precious metals nor leave dust or residues.

- V055** Acid-free tissue 15 x 15cm pack of 500 sheets
V056 Acid-free tissue 20 x 20cm pack of 500 sheets

Lens Tissue



A low-lint, light fibre tissue specifically designed for the cleaning of delicate optical surfaces safely without scratching or smearing

- T067** Microscope lens tissue 10 x 15cm 10 wallets, 25 sheets/wallet
T498 Microscope lens tissue 20 x 30cm pack 100

Selvyt Cloth

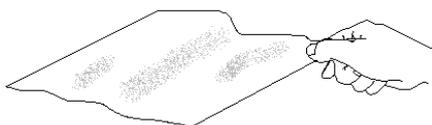


Soft anti-static, lint free cloth available in different sizes. Ideal for cleaning most surfaces especially after polishing materials specimens with diamond compound etc.

- C104** Selvyt cloth 25 x 25cm each
C104/1 Selvyt cloth 25 x 25cm per 10

For additional sizes see page 9.11

Poly-Jean Cloth



Poly-Jean is a 100% polyester monofilament knit cloth. It is extremely clean, practically lint free, absorbent with oil and water solvents, non-ravelling, scratch free and anti-static. It has many uses in EM cleaning and wiping, cleaning tape heads, holding small parts for drying after cleaning and wiping optics.

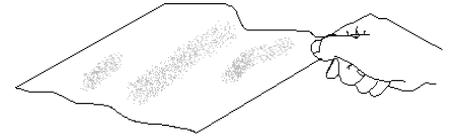
- C113** Poly-Jean cloth 9" x 9" (23 x 23cm) pack of 10
C113/1 Poly-Jean cloth 9" x 9" (23 x 23cm) pack of 100

TechniCloth

Wipers fabricated from a hydroentangled non-woven blend of cellulose and polyester to give soft strength with high absorbency (4x its own weight) so excellent for picking up aqueous spills. Low particle generation, can be sterilised and reseals its edges if cut to prevent loose fibres from linting onto clean surfaces. Perfect for cleaning precision components and apparatus.

- Excellent wet and dry strength
- Exceptional absorbency
- Resists most solvents
- Contains no chemical binders

C175 TechCloth 9" x 9" (23 x 23cm) packed 300 pieces in a 'Bag-within-a-Bag' in a class 100 clean room environment



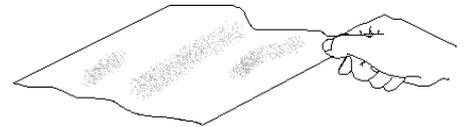
Other sizes available:
4" x 4" (10 x 10cm)
6" x 6" (15 x 15cm)
12" x 12" (31 x 31 cm)
Please ask

Absorbond Wipers

Superb wipers made from hydroentangled polyester. This process uses jets of water to mechanically entangle the fibres eliminating the need for chemical binders. Even though Absorbond contains no surfactants, its absorptive capacity is five times its weight.

- Non-abrasive soft, durable surface for safe cleaning of optical components
- Low particles and extractables so safe for use on sensitive surfaces

C288 Absorbond wipers 9" x 9" (23 x 23cm) packed 300 pieces in a 'Bag-within-a-Bag' in a class 100 clean room environment



Foam Swabs and Applicators

Foam Swab Moulded foam head (20mm Ø x 27mm long) bonded around a cotton bud cushion and mechanically adhered to a 5" (13cm) hardwood handle. Ideal for general purpose cleaning and solvent application.

C177 Foam swab bag of 100
C177/1 Foam swab box of 500

Cleantip Absorbond Swab Constructed from hydroentangled, continuous filament polyester to reduce the risk of fibre release. The flexible heads (6.8mm Ø x 16.8mm long) are thermally moulded onto polypropylene handles without the use of adhesives. All perimeter edges are heat sealed to prevent fibre release. 5.7" long handle (14.5cm). Excellent chemical resistance so can be used with a wide range of solvents.

C285 Absorbond swab bag of 100
C285/1 Absorbond swab box of 500

Foam Applicator The large *rectangular* head (15mm Ø x 25mm long) is made from high-grade, closed cell polyurethane foam giving high performance in applications requiring sorbency. It is thermally bonded to a flexible polypropylene handle 4.2" (10.5cm) long and 3.2mm wide. They provide softness and low abrasion characteristics to protect delicate surfaces with low particle generation and solvent resistance.

C197 Foam applicator bag of 100
C197/1 Foam applicator box of 500

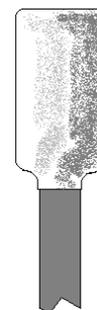
Foam Applicator The large *circular* head 0.8" (20.5mm Ø) has the same properties as C197 but gives greater mass and cleaning ability.



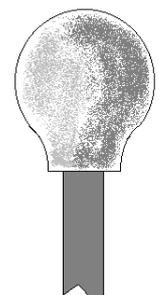
C177



C285



C197



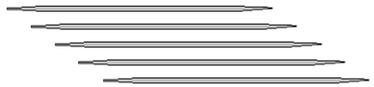
C286



Cotton Tipped Sticks

A cotton bud fixed to a 6" (15cm) long hardwood stick. Used for general precision cleaning and solvent application.

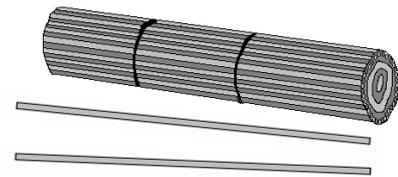
C099 Cotton tipped stick pack of 100



Cocktail Splints

Small hardwood splints for holding tissue, cleaning pole pieces or general probe work etc.

C098 Cocktail splints pack of 1000



Pegwood

Finest quality 3mm Ø pegwood 6" (15cm) long, packed in bundles of approx. 30 pieces.

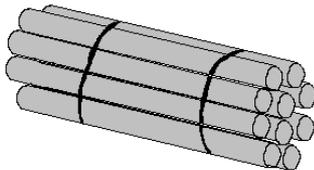
C114 Pegwood bundle



Wooden Splints

Ideal for mixing resins or other small scale mixing jobs in the laboratory.

C194 Wooden splints pack of 100 **C194/1** Wooden splints pack of 1000



Pithwood

Excellent for cleaning diamond knives, tweezers etc. Packed in bundles of 10 pieces.

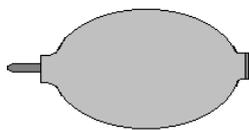
C097 Pithwood bundle



Tri-Peek Polish

A very mildly abrasive paste specially recommended for cleaning parts of the electron microscope. Easily removed ultrasonically with one of our ultrasonic cleaning fluids.

C096 Tri-Peek polish 100ml tube



Blower

Consists of a rubber bulb with a metal nozzle and two way valve to prevent suck-back. A simple manual blower that can be used as an alternative to compressed gas for dusting surfaces or lenses that should not be wiped.

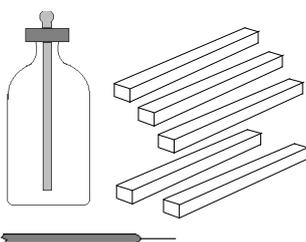
B167 Blower each



Label Remover

An effective reagent for safely removing labels from almost any surface including glassware and sensitive surfaces such as plastic.

C228 Label remover 1 litre



Diamond Knife Cleaning Kit

A kit for cleaning the edge of diamond knives consisting of Tween 80 solution (100mls), dropper bottle, polystyrene sticks, single bristle brush and cleaning instructions.

C262 Diamond knife cleaning kit

Disposable Jet Dusters

FALCON Dust-Off JR A compact and disposable duster from the Premier company in Jet Dusters providing the same power as larger models and suitable for all dusting jobs in the laboratory or darkroom.

D062A Dust-Off JR 100ml each
 D063A Dust-Off JR 100ml pack of 10

FALCON Dust-Off XL An extra large disposable economical duster providing dust removing power at less cost per gramme than most other products.

D203 Dust-Off XL 300ml each
 D203/1 Dust-Off XL 300ml pack of 12

Dust-Off Eco-Superior Duster for use where lack of flammability is a prime requirement. Ultra-low Global Warming Potential (GWP) and minimum carbon footprint can.

D204 Dust-Off Eco-Superior Duster 225ml each
 D204/1 Dust-Off Eco-Superior Duster 225ml pack of 12



Our Jet Dusters contain no CFC's, no HCFC's, no propane and no butane.



D204

Rechargeable Jet Dusters

FALCON Dust-Off Plus® These models are equipped with the patented Vector Valve® which has the unique ability to angle its dust removing power 360° to give unequalled accessibility into intricate dusting applications. This valve gives variable control of pressure and is removable without loss of the ozone friendly gas.

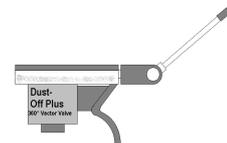
D141 Dust-Off Plus complete with Vector Valve 300ml each

Falcon Dust-Off Plus Refill A canister to be used to recharge Dust-Off Plus with Vector Valve®. Charged with ozone friendly gas.

D142 Dust-Off Plus refill ozone friendly 300ml each
 D143 Dust-Off Plus refill ozone friendly 300ml pack of 12



Although considered non flammable in use, Dust-Offs are considered flammable for shipping purposes as there are some flammable elements. The **Special Application Formula** overcomes this problem and gives 20% more



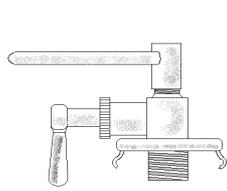
Falcon Dust-Off Plus Valve and Nozzle 360° Vector Valve® replacement unit.

D141/N Replacement Vector Valve® system for Dust-Off Plus each

Dust-Off XL Special Application Formula This Dust-Off version has been specially developed for use in research laboratories where flammability is of great concern. These dusters offer the same cleaning power as other Dust-Off products but without any risk of flammability. Fitted with the unique Vector Valve® system.

D149 Dust-Off XL special application formula *complete* 186ml each
 D150 Dust-Off XL Special App. formula *refill* canister 186ml each

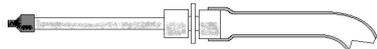




D059/N



D058



Original Dust-Off Classic

Still the world's first choice duster after 20 years. The sturdy Dust-Off Chrome Valve is an industry standard so refills will fit most other chrome valve systems. The valve can be removed without loss of gas and the can retains the same pressure until it is empty.

D058	Dust-Off classic 300ml <i>complete</i> with valve	each
D059	Dust-Off classic <i>refill</i> 300ml	each
D060	Dust-Off classic <i>refill</i> 300ml	pack of 12
D059/N	Dust-Off classic chrome <i>valve and nozzle</i>	each

Extension Nozzle for Classic

A metal extension nozzle with 57cm (22½") of clear flexible hose that is a push fit over the existing fixed nozzle of the Original Classic Dust-Off. This provides greater convenience for many cleaning applications.

D061	Dust-Off Classic extension hose and nozzle	
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Anti-Static Wipes

Pre-moistened anti-static wipes that will quickly clean any washable surface leaving it static-free. Soft and non-abrasive, these wipes are ideal for computer cabinets, screens, keyboards, printers and copiers. Also for microscope desks and control panels. Unbreakable pop-up dispenser holds 70 wipes 143 x 203mm.

C287	Moistened anti-static wipes	box of 70
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Anti-Static Foaming Cleaner

A highly versatile combination of solvents, detergents and surfactants formulated to remove a wide range of dirt grime and staining. Effective on plastics, cloths, computer cabinets, glass, machinery and equipment. It is particularly efficient at removing fingerprints.

A016	Anti-Static foaming cleaner 400ml (10oz) aerosol	each
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MiracleWipe™ Wipers

Highly absorbent wipes made from 100% continuous filament nylon, ideal for general wiping in critical environments. The double knit construction, texture and body of the nylon filament give the wiper an excellent hand and superior strength. MiracleWipe has ultralow particulate generation and low extractable levels that help prevent product contamination. Has a soft, nonabrasive surface, excellent tensile strength, elasticity and durability. Bag-Within-A-Bag™ clean-room packaging.

C176	MiracleWipe wipers 9" x 9" (23 x 23cm)	3 inner bags of 50 (150 total)
C289	MiracleWipe wipers 10" x 12" (28½ x 31cm)	4 inner bags of 50 (200 total)

Virusolve + Disinfectant

A complex blend containing the latest dodecylamine based structures, solvents and fully non-toxic, biodegradable detergent. The formulation does not contain any hazardous aldehydes or chlorine generating components. Highly effective as a cleaner and disinfectant against bacteria, mycobacteria, fungi, viruses, spores, MRSA, C.diff. HIV agents, E.Coli and NDM1. Virusolve+ does not simply render the microorganisms inert but has been demonstrated to kill them by disrupting the RNA of the microorganisms and preventing resistance being built up. It is safe to use on any surface and is odourless and colourless.

D251	Virusolve + 750ml trigger spray	D254	Virusolve + pillow pack (500)
D252	Virusolve + 2½ litre (dilute to 5%)	D255	Virusolve + pillow pack (800)
D253	Virusolve + wipes (tub of 100)		