

camSonix

C-Series

Digital ultrasound



- Cleaning
- Degassing
- Mixing



camSonix C-Series
ultrasonic cleaning baths
from 800ml to 90 litres

Quick Setting

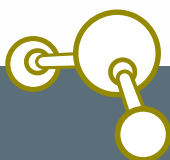
- Time and temperature control
- Temperature controlled autostart

Built to last

- High-performance transducer for maximum ultrasound and long life
- Dry-run proof ceramic heating

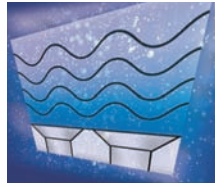
Advanced features

- Quick degassing and Autodegas
- Sweep function for improved cleaning
- Safety switch-off

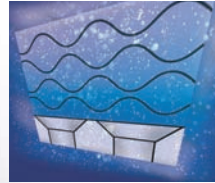


camlab

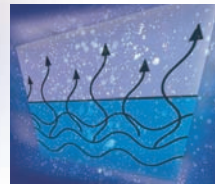
camSonix Digitally controlled ultrasonics



Ultrasonic mixing wave



Degas and Autodegas



Sweep cleaning action



The Camlab C-Series baths offer practically every available technical feature to maximise the ultrasonic effect for great results whether cleaning, mixing or degassing.

The reliable transducer technology and ceramic heating system combined with the robust stainless steel construction prolong the service life of the units.

The basis of a nearly perfect cleaning process with ultrasound is the digitally controlled high-performance transducer system. This operates at 37 kHz for a consistent controlled consistent wave form.

The Sweep function oscillates the wave frequency which moves the active cavitation field for the ultimate cleaning effect.

The Degas function can be used to remove dissolved gas from the cleaning solution or samples. For convenience the autodegas function degasses the bath and then starts the cleaning process automatically.

Built to last, the camSonix range is backed up by Camlabs own UK service team to ensure continuous operation in the most demanding of situations.

Ultrasonic applications



Cleaning, degassing and dispersing in the lab



Cleaning in the dental and medical sectors



Ultrasound for ophthalmology and opticians



Cleaning of items in industry workshop and service



Ultrasonic cleaning for jewellery



Ultrasound cleaning for watchmakers

■ **Laboratory:** Ultrasound waves clean wherever the cleaning liquid can go. It is particularly suitable for the cleaning of laboratory instruments made of glass, plastic or metal. camSonix units can degass HPLC solutions, mix, disperse, emulsify and dissolve specimens.

■ **Medical sector:** Thorough cleaning of surgical, medical and micro-instruments without damaging the material, or cleaning of rigid endoscopes and flexible endoscopic accessories.

■ **Dental laboratory:** Cleaning of instruments, removal of cement and plaster; cleaning of dental mould spoons, drills and prostheses. Cleaning of dentures, crowns and other prosthetic materials.

■ **Jewellery:** Cleaning and brightening up of gold, silver, platinum and fancy jewellery. Cleaning of precious, semiprecious and set stones.

■ **Watch sector:** Cleaning of watch cases, mechanical parts and metal bracelets. Cleaning of clockworks.

■ **Optician:** Cleaning of complete glasses and optics. Intensive cleaning of spectacle pads and joints.

■ **Workshop and service:** Intensive cleaning with alkaline, acid and neutral cleaning products in the workshop, for service works, for the final cleaning and ready for coating.

■ **Industry:** Cleaning in the mechanical, electronic and glass industries, automobile parts production and plating or other surface refinement processes. Gentle and intensive cleaning of items made of steel, light and nonferrous metals, plastics and glass.

camSonix

The special functions, features and advantages



Drain valve on the side



Variable position drain duct

The camSonix C-series is available in 13 different sizes, ranging from 0.8 litre up to 90 litre. They are equipped with efficient 37kHz ultrasonic high-performance transducers of the latest generation.



Handy cover/drip tray



Maximum filling line

■ The dry-run proof heating (optional) enhances the cleaning process.

■ The operating panel is user-friendly and arranged so that no liquid can enter the electronics.

■ The newly developed cover reduces the noise and accelerates the heating-up process. When turned over, the cover can be used as drip tray. The collected cleaning liquid can be emptied back into the tank.

■ The cleaning tanks are made of a special cavitation resistant stainless steel for long life and easy cleaning.

■ The Sweep function guarantees superior cleaning through variable sound field distribution in the cleaning bathfluid by modulating the frequencies.

■ The set cleaning time and the remaining cleaning time are both indicated by an LED display. (except C080T)

■ The timer knob for the pre-selection of the cleaning period can be turned to permanent or timed operation

■ Degas function key

■ Ultrasound Start/Stop key

■ Unit On/Off key with safety feature which automatically switches the power off after 12 hours.

■ Temperature knob - the temperature can be set between 30° and 80°C in steps of 5°. Both set and actual temperature of the liquid are indicated by an LED indicator. (except C080T)

■ Marking for filling line.

■ The carrying handles* are made of ergonomically shaped plastic and allow you to move a hot bath safely.

■ The drain valve on the side allows easy draining of the cleaning liquid through the drain duct on the back of the unit.*

■ LED temperature indicator

* see table on reverse for variations



Camlab limited
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 Cambridge CB24 5WE
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Accessories

Immersion basket
made of polypropylene EA/2070380
basket dimensions: dia 74mm,
height 50mm



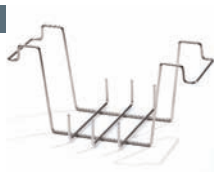
Immersion basket
made of stainless steel, for all
unit types
Basket dimensions:
dia 59 mm, height 60mm
dia 85mm EA/2070540
EA/1007545



Polypropylene basket
for C175/C175T dimensions : EA/2070390
95x95x57mm
for C275/C275T dimensions: EA/2070400
200x95x57mm
for C425/C425T dimensions: EA/2070600
200x95x57mm (with longer
straps)



Tool holder
made of stainless steel for tools EA/2070760
or small glass bottles.
For all unit types.



Test tube holder
made of stainless steel EA/2070770
For tubes up to 16.5mm
diameter.



Hook racks
flexible with 10 hooks EA/1007938



Clamps for Erlenmeyer flasks
50ml EA/1007553
250ml EA/1007555
500ml EA/1007575
1000ml EA/1007558
(for attachment to stainless steel baskets)



Plastic cover and drip tray
for C080/C080T EA/1003278
for C175/C175T EA/1003280
for C275/C275T, C425 / C425T EA/1003281
for C575/C575T EA/1003282
for C690/C690T, C940 / C940T EA/1003283
for C950/C950T, C1275 / C1275T EA/1003285
for C1800/C1800T EA/1003286
for C3000/C3000T EA/1003287



Stainless steel cover
with 80mm holes for 2 beakers EA/2070520
for C080/C080T
with 95mm hole for 1 beaker for EA/2070290
C175/C175T
with 95mm holes for 2 beakers EA/2070300
for C275/C275T, C425/C425T



Beaker
600ml with lid, 80mm dia. for EA/2070360
C080/C080T cover only
600ml with lid , 95mm dia for all EA/2070340
unit types and 95mm covers
1000ml with lid, 95mm dia. for EA/2070350
all unit types and 95mm covers



Acid resistant tub plastic
with cover
for C275/C275T, C425/C425T, and EA/2070890
C575/C575T
for C950/C950T, C1275/C1275T EA/2070900
for C1800/C1800T EA/2070910
for C3000/C3000T EA/2000008



Basket stainless steel
for C080/C080T EA/1004170
for C175/C175T EA/1004209
for C275/C275T EA/1004176
for C425/C425T EA/1004232
for C575/C575T EA/1004243
for C690/C690T EA/1004247
for C940/C940T EA/1004265
for C950/C950T EA/1004178
for C1275/C1275T EA/1004277
for C1800/C1800T EA/1004275
for C3000/C3000T EA/1004271



Cooling coil stainless steel
for C175/C175T, C275/C275T, EA/1007754
C425/C425T, C575/C575T,
C690/C690T, C940/C940T,
C950 / C950T, C1275/C1275T,
C1800/C1800T, C3000/C3000T
(Requires connection to a cooled
water supply)



Technical Specifications

	H D W	C080/T	C175/T	C275/T	C425/T	C575/T	C690/T	C940/T	C950/T	C1275/T	C1800/T	C3000/T	C4500	C9000
Tank volume max.	liter	0,8	1,75	2,75	4,25	5,75	6,9	9,4	9,5	12,75	18	28	45	90
Tank volume max.	gal (approx.)	0,2	0,5	0,7	1,0	1,5	1,8	2,4	2,5	3,4	4,7	7,4	11,9	23,8
Tank internal dimensions	W x D x H mm	190x85x60	151x137x100	240x137x100	240x137x150	300x151x150	505x137x100	505x137x150	300x240x150	300x240x200	327x300x200	505x300x200	500x300x300	600x500x300
Tank external dimensions	W x D x H mm	206x116x178	175x180x212	300x179x214	300x179x264	365x186x264	568x179x214	568x179x264	365x278x264	365x278x321	390x340x321	568x340x321	615x370x467	715x570x467
Weight	kg (ca.)	2,0	2,1	3,3	4,0	5,1	5,6	6,4	5,9	7,5	8,5	11,0	25	45
Ultrasonic frequency	kHz	37	37	37	37	37	37	37	37	37	37	37	37	37
Ultrasonic peak max. *1)	W	240 *2)	280 *2)	320 *3)	560 *3)	600 *3)	600 *3)	600 *3)	600 *3)	800 *3)	800 *3)	1200 *3)	1600 *3)	3200 *3)
Heating power	W	0 / 60	0 / 60	0 / 200	0 / 200	0 / 400	0 / 600	0 / 600	0 / 400	0 / 800	0 / 800	0 / 1200	1600	2000
Power consumption total	W	30 / 90	35 / 95	80 / 280	140 / 340	150 / 550	150 / 750	150 / 750	150 / 550	200 / 1000	200 / 1000	300 / 1500	2000	2800
Sweep		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Degas / Autodegas		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carrying handles		no	no	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drain duct / diameter	inch	no	no	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"
Order numbers														
with heating *4)	220-240 Vac	EA/1001214	EA/1002060	EA/1001955	EA/1002006	EA/1002238	EA/1002140	EA/1002170	EA/1002297	EA/1002825	EA/1002877	EA/1003033	EA/1003908	EA/1003946
without heating *4)	220-240 Vac	EA/1005507	EA/1004626	EA/1004631	EA/1004635	EA/1004643	EA/1004650	EA/1004652	EA/1004655	EA/1004658	EA/1004662	EA/1004669	n/a	n/a
Accessories:														
Basket internal dimensions	W x D x H mm	177x73x30	112x103x50	198x106x50	190x105x75	255x115x75	465x106x50	455x106x75	255x200x60	250x190x115	280x250x115	455x250x115	455x270x194	545x450x250
Basket meshsize	mm	7x1	7x1	7x1	7x1	9x1	9x1	9x1	9x1	9x1	9x1	9x1	9x1	16x1,2
Basket load	kg	1	1	1	3	5	5	5	6	7	8	10	20	30

*1) The choice of the waveform has been matched to the relevant tank size.

*2) Impulse waveform

*3) Standard sine-wave modulation

*4) Units also available with 100-120 VAC (except C4500T & C9000T).