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chalice®



Baths, Circular, Aluminium, Gas Heated

- Fixed temperature baths with concentric ringed lids to vary hole size
- Baths have an integral constant level device to regulate the level of water

Catalogue No	Dimensions (dia x depth), mm	Hole diameter, mm
B137-020	127 x 90	125
B137-021	152 x 102	150
B137-026	203 x 127	200

Baths, Circular, Aluminium, Electrically Heated

- Fixed temperature baths with concentric ringed lids to vary hole size
- Baths have an integral constant level device to regulate the level of water
- Electrically heated baths have a class 1 over-heat protection device
- All electrical baths are suitable for 230V, 50-60Hz operation
- Accessory energy regulator can be used for control between boil and simmer

Catalogue No	Dimensions (dia x depth), mm	Hole diameter, mm	Heater, Watts	Voltage
B137-072	178 x 127	175	1000	230V
B137-076	203 x 127	200	1000	230V

Baths, Multiplace Rectangular, Stainless Steel, Electrically Heated

- Models available with built in energy regulators to control the amount of boiling from simmer to vigorous boil
- Integral constant level to regulate water level
- Supplied with multiple sets of rings to vary hole diameters
- Class 1 over-heat protection device
- Supplied with mains power cord. All baths suitable for 230V, 50-60Hz operation

Catalogue No	Overall dimensions (wxdxh), mm	Hole Detail (No, dia)	Heater, Watts	Energy Regulator
B137-101	321 x 219 x 90	6 at 80mm dia.	1000	No
B137-102	425 x 321 x 90	6 at 101mm dia.	1000	No
B137-104	425 x 321 x 90	12 at 80mm dia.	1500	No
B137-113	321 x 219 x 90	6 at 80mm dia.	1000	Yes
B137-115	425 x 321 x 90	6 at 101mm dia.	1000	Yes

Accessory Energy Regulator

- Can be used with circular or rectangular electric boiling baths allowing the degree of boil to be controlled from vigorous boil to gentle simmer
- Supplied with mains inlet and outlet leads
- Suitable for 230V, 50-60Hz operation up to 10 amps

Catalogue No	Description
B137-150	Energy regulator

Note:

Full range of lids and racks are available as optional extras. Please contact our sales team...

Email thelabcat@wagtech.co.uk

Tel +44 (0) 1635 872 929

Fax +44 (0) 1635 862 898

Baths, Boiling Unstirred

- With simmerstat control
- Designed for applications that require continuous boiling
- Integral constant level device to combat evaporation of water
- Corrosion resistant stainless steel tank with concealed heating element for easy cleaning
- Removable stainless steel perforated false base
- Anti bacterial paint finish
- Voltage 230V



B137-308

Catalogue No	Capacity	Temperature, °C	Internal dims. (wxdxh), mm	Overall dims. (wxdxh), mm
B137-308	8 litres	Simmering to boiling at 100	240 x 300 x 150	332 x 270 x 240
B137-314	14 litres	Simmering to boiling at 100	325 x 300 x 150	362 x 332 x 240
B137-328	28 litres	Simmering to boiling at 100	500 x 300 x 200	537 x 332 x 290

Baths, Unstirred, Thermostatically Controlled

- Corrosion resistant 304 stainless steel tank with a removable 'low' height stainless steel perforated shelf
- Heater and safety cut-out concealed underneath
- Side lifting handles for ease of transportation
- Anti bacterial paint finish
- Voltage 230V



B137-344

Catalogue No	B137-344	B137-348	B137-354	B137-356	B137-358	B137-362
Capacity, litres	4	8	14	22	28	56
Temperature range, °C	Ambient +5 to 100					
Sensitivity, °C	± 0.25					
Uniformity, °C	± 0.1					
Internal dims. (wxdxh), mm	300 x 150 x 150	300 x 240 x 150	325 x 300 x 150	500 x 300 x 150	500 x 300 x 200	620 x 500 x 200
External dims. (wxdxh), mm	332 x 185 x 290	332 x 270 x 290	361 x 332 x 290	538 x 332 x 290	538 x 332 x 290	660 x 540 x 290

Baths, Unstirred, Thermostatic, Digital Display

- Temperature selectable and displayed in 0.1°C increments
- Increased sensitivity through electronic control PID control
- Stainless steel tank with a removable perforated shelf
- Manually adjustable independent over temperature safety cut-out device
- Stainless Steel corrosion resistant tank with removable perforated shelf
- Recessed handles for easy transportation
- Anti bacterial paint finish
- Voltage 230V



B137-378

Catalogue No	B137-374	B137-378	B137-384	B137-386	B137-388	B137-392
Capacity, litres	4	8	14	22	28	56
Temperature range, °C	Ambient +5 to 99					
Sensitivity, °C	± 0.2					
Uniformity, °C	± 0.1					
Internal dims. (wxdxh), mm	300 x 150 x 150	300 x 240 x 150	325 x 300 x 150	500 x 300 x 150	500 x 300 x 200	620 x 500 x 200
External dims. (wxdxh), mm	332 x 185 x 290	332 x 270 x 290	361 x 332 x 290	538 x 332 x 290	715 x 332 x 290	660 x 540 x 290

Range of Lids to fit Chalice Unstirred Baths

Catalogue No	Description
B137-404	Gabled lid, Food grade, moulded plastic, for 4 litre baths
B137-406	Gabled lid, Food grade, moulded plastic, for 8/10 litre baths
B137-408	Gabled lid, Food grade, moulded plastic, for 14 litre baths
B137-412	Gabled lid, Food grade, moulded plastic, for 22/28 litre baths
B137-416	Gabled lid, stainless steel, for 4 litre baths
B137-420	Gabled lid, stainless steel, for 8 litre baths
B137-424	Gabled lid, stainless steel, for 14 litre baths
B137-428	Gabled lid, stainless steel, for 22/28 litre baths
B137-430	Gabled lid, hinged, stainless steel, for 14 litre baths
B137-432	Gabled lid, hinged, stainless steel, for 22/28 litre baths



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B137-520



Baths, Stirred, Thermostatic

- Corrosion resistant, 304 stainless steel tank supplied with removable stainless steel shelf
- Heater, mains and low liquid indicators
- Powerful stirring for stable temperature control
- Safety cut-out float switch for low liquid level protection
- Anti bacterial paint finish
- Voltage 230V

Catalogue No	B137-520	B137-524	B137-528	B137-532
Capacity, litres	8	14	22	28
Temperature range, °C	Ambient +5 to 99			
Sensitivity, °C	± 0.2			
Uniformity, °C	± 0.05			
Heater, Watts	1250W			
Internal dims. (wxdxh), mm	129 x 298 x 150	219 x 298 x 150	395 x 298 x 150	395 x 298 x 200
External dims. (wxdxh), mm	271 x 332 x 170	360 x 332 x 170	537 x 332 x 170	537 x 332 x 240

B137-560



Baths, Stirred Thermostatic, Digital Display, Electronically Controlled

- Corrosion resistant, 304 stainless steel tank supplied with removable stainless steel shelf
- Temperature is digitally set and displayed in 0.1°C increments
- Powerful stirring for excellent temperature stability
- For operation at temperatures below ambient, an accessory cooling system B137-580 is available
- Anti bacterial paint finish
- Voltage 230V

Catalogue No	B137-560	B137-564	B137-568	B137-572	B137-574	B137-576
Capacity, litres	8	14	22	28	38	56
Temperature range, °C	Ambient +5 to 99					
Sensitivity, °C	± 0.1					
Uniformity, °C	± 0.01					
Internal dims. (wxdxh), mm	129 x 298 x 150	219 x 298 x 150	395 x 298 x 150	395 x 298 x 200	570 x 290 x 200	490 x 500 x 200
External dims. (wxdxh), mm	271 x 332 x 170	361 x 332 x 170	537 x 332 x 170	537 x 332 x 240	715 x 330 x 235	660 x 540 x 290
Heater power, W	1250					2000



Accessory Immersion Dip Cooler

Designed for use with the electronic range of water baths. Features continuous running immersion cooler, air cooled and quiet in operation.

Catalogue No	Description
B137-580	Immersion cooler - Operates ambient to -20°C Cooling power: 20°C=1000W, 5°C=560W, 0°C=480W, -10°C=330W, -20°C=215W
B137-582	Immersion cooler - Operates ambient to -20°C Cooling power: 10°C =1400W, 0°C=1040W, -10°C=730W, -20°C=460W



Range of lids to fit Chalice Stirred Baths

Catalogue No	Description
B137-628	Gabled lid, stainless steel, for 8 litre baths
B137-634	Gabled lid, stainless steel, for 14 litre baths
B137-636	Gabled lid, stainless steel, for 22/28 litre baths

Bath, Shaking, Thermostatically Controlled

- Temperature selection in one degree graduations
- Corrosion resistant stainless steel tank
- Reciprocating stainless steel trolley accepts accessory clip trays to accommodate flasks clips or racks
- Infinitely variable stroke length 0mm to 40mm
- Manually adjustable over temperature device with alarm
- Continuously adjustable speed up to 380 strokes/minute
- Flask immersion 50mm-120mm
- Anti bacterial paint finish
- Voltage 230V

Catalogue No	B137-800
Capacity, litres	28
Temperature range, °C	Ambient +5 to 99
Sensitivity, °C	± 0.2
Uniformity, °C	± 0.1
Internal dims.(wxdxh), mm	500 x 300 x 200
External dims.(wxdxh), mm	715 x 322 x 240
Heater, W	1000



B137-800



Baths, Shaking, Digital

- Advanced PID temperature controller allows observation of set and actual temperature simultaneously
- Corrosion resistant stainless steel tank
- Reciprocating stainless steel trolley accepts accessory clip trays to accommodate flasks clips or racks
- Shaker speed is electronically controlled with shaker stroke infinitely adjustable up to 40mm
- Manually adjustable over temperature device with alarm
- Continuously adjustable speed up to 380 strokes/minute
- Flask immersion 50mm to 120mm
- Anti bacterial paint finish
- Voltage 230V

Catalogue No	B137-810	B137-814
Capacity, litres	10	28
Temperature range, °C	Ambient +5 to 99	
Sensitivity, °C	± 0.1	
Uniformity, °C	± 0.1	
Internal dims. (wxdxh), mm	242 x 300 x 200	500 x 300 x 200
External dims. (wxdxh), mm	449 x 332 x 240	715 x 322 x 240
Heater, W	800	1000

B137-810



Note:

Please see **Chalice Bath Accessories** for all ranges of flask trays and racking systems for shaking baths.

Lids for Chalice Shaking Baths

Catalogue No	Description
B137-406	Gabled lid, food gauge, moulded plastic, for 10 litre baths
B137-412	Gabled lid, food gauge, moulded plastic, for 28 litre baths
B137-420	Gabled lid, lift off, stainless steel, for 10 litre baths
B137-428	Gabled lid, lift off, stainless steel, for 28 litre baths
B137-432	Gabled lid, hinged, stainless steel, for 28 litre baths



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B137-852



Baths, Duo, Digital Display

- Two independently controlled unstirred baths in one unit
- Corrosion resistant stainless steel tanks, each with their own independent on/off and temperature controls
- Supplied with perforated stainless steel shelf for each chamber, plus "High Step" shelf for the smaller chamber
- Manually adjustable over temperature safety device with alarm
- Anti bacterial paint finish
- Voltage 230V

Catalogue No	B137-852	B137-856	B137-861	B137-865
Capacity	4 litre + 4 litre	4 litre + 8 litre	4 litre + 22 litre	8 litre + 22 litre
Temperature range, °C	Ambient +5 to 99			
Sensitivity in same tank, °C	± 0.2			
Uniformity In same tank, °C	± 0.1			
100PC tank effect on adjacent 30°C tank, °C	± 0.1			
Internal dims. (wxdxh), mm	150 x 300 x 150 150 x 300 x 150	150 x 300 x 150 240 x 300 x 150	150 x 300 x 150 500 x 300 x 150	240 x 300 x 150 500 x 300 x 150
External dims. (wxdxh), mm	360 x 330 x 290	450 x 330 x 290	710 x 332 x 290	800 x 332 x 290
Heater, W	800	1000	1900	2300

B137-416



Accessory Lids for Chalice Duobaths

Catalogue No	Description
B137-416	Gabled lid, stainless steel, for 4 litre baths
B137-420	Gabled lid, stainless steel, for 8 litre baths

B139-108



Circulators, Water, Digitally Controlled

- Digitally controlled thermocirculator housed in durable stainless steel case
- Temperature is digitally set and displayed in 0.1°C Increments
- Features a safety cut-out float, illuminated heater and mains indicators
- Manually adjustable under and over temperature safety device with alarm
- Push-fit and lock fittings for secure external water circulation
- Stainless steel tank and shelf providing good water temperature stability
- For operation at temperatures below ambient an accessory cooling system B137-580 is available (page 28)
- Anti bacterial paint finish
- Voltage 230V

Catalogue No	B139-108	B139-114	B139-122	B139-128	B139-136
Capacity, litres	8	14	22	28	56
Temperature range, °C	Ambient +5 to 99				
Temperature range, °C using cooling accessory	Ambient to -20				
Sensitivity °C	±0.1				±0.2
Uniformity °C	± 0.01				
Pump capacity L/min	10				
Pump pressure	1.5m head				
Internal dims. (wxdxh), mm	129 x 332 x 150	219 x 298 x 150	395 x 298 x 150	395 x 298 x 200	500 x 500 x 200
External dims. (wxdxh), mm	271 x 332 x 170	361 x 332 x 170	537 x 332 x 170	537 x 332 x 240	660 x 540 x 290
Heater Power, W	1250	1250	1250	1250	2000

Circulators, Water and Oil, Digital Control

- Digitally controlled thermocirculator housed in durable stainless steel case
- Temperature is digitally set and displayed in 0.1°C Increments
- Features a safety cut-out float, illuminated heater and mains indicators
- Push-fit and lock fittings for secure external water circulation
- Stainless steel tank and shelf providing good water temperature stability
- Over and under temperature alarm
- For operation at temperatures below ambient an accessory cooling system B137-580 is available (page 28)
- Anti bacterial paint finish
- Voltage 230V

Catalogue No	B139-143	B139-147	B139-149
Capacity, litres	8	14	22
Temperature range, °C	Ambient +5 to 99		
Temperature range, °C using cooling accessory	-20 to 130°C		
Sensitivity °C	±0.1		
Uniformity °C	± 0.01		
Pump capacity L/min	10		
Pump Pressure	1.5m head		
Internal dims. (wxdxh), mm	129 x 298 x 150	219 x 298 x 150	395 x 298 x 150
External dims. (wxdxh), mm	271 x 332 x 170	361 x 332 x 170	537 x 332 x 170

Circulator

Our Chalice chiller circulator is specifically designed for circulating temperature controlled liquids, maintaining temperature in analytical equipment and heat removal through the immersion of samples. The chiller circulator tank is manufactured in high grade stainless steel which is fitted above a cooling system with an immersible thermocirculator.

- Digital thermostatic control with clear digital display
- Powerful circulation pump
- Convenient push-fit and lock fittings for inlet and outlet accessory hoses
- 304 specification stainless steel tank
- Safety cut-out float switch for low liquid level protection
- Over and under temperature audible and visual alarm
- Supplied with flat lift-off lid and insulated handle
- Anti bacterial paint finish

Catalogue No	B139-208
Capacity, litres	8
Temperature range, °C	-20 to 130
Temperature stability, °C	±0.1 at 0°C
Temperature uniformity, °C	±0.01 at 0°C
Cooling capacity W	
+20°C	1000
0°C	640
-10°C	440
-20°C	279
Overall dimensions (wxdxh), mm	271 x 332 x 805
Working dimension (wxdxh), mm	129 x 298 x 150
Pump capacity, L/min	10
Pump pressure	1.5m head
Power, Watts	1250

Range of Lids to fit Chalice Circulator

Catalogue No	Description
B137-628	Gabled lid, stainless steel, for 8 litre baths
B137-634	Gabled lid, stainless steel, for 14 litre baths
B137-636	Gabled lid, stainless steel, for 22 litre baths

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B139-143



B139-208



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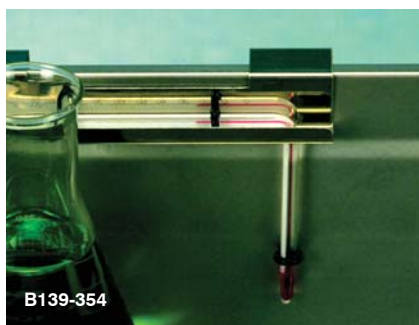
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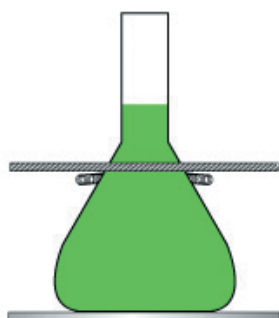
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B139-352



B139-354



Accessories for Chalice Baths

Test Tube Racks

- High-grade stainless steel construction
- Dimensions of rack: 270mm long x 70mm wide, height to top of lifting handle: 138mm

Catalogue No	Description
B139-313	Test tube rack, stainless steel, 36 holes x 13mm dia
B139-317	Test tube rack, stainless steel, 26 holes x 17mm dia
B139-319	Test tube rack, stainless steel, 18 holes x 19mm dia
B139-326	Test tube rack, stainless steel, 16 holes x 26mm dia
B139-332	Test tube rack, stainless steel, 12 holes x 32mm dia
Max number of racks per bath	
Bath Size	4 litre=1 rack 8 litre=2 racks 14 litre=4 racks 22/28 litre=6 racks

Spheres, Polypropylene

Provides a floating lid on water baths to minimise evaporation and allow easy immersion/removal of flasks.

Catalogue No	Sphere dia. mm	Pack qty.
B139-352	20	200
Max number of packs per bath		
Bath Size	4 litre=1 pack 8/14 litre=2 packs 22/28 litre=6 packs	

Reference Thermometer

- Bent stem spirit filled thermometer with clip, lies flush with top edge of the bath to prevent accidental damage
- Scale 0-100PC in 2PC graduations

Catalogue No	Description
B139-354	Thermometer, bent stem, spirit filled

Flask Trays for 28 Litre Shaking Baths

A perforated tray, complete with flask clips to suit common sizes of glass/polypropylene Erlenmeyer flasks. The tray simply drops into the reciprocating trolley and locates snugly.

Catalogue No	Description
B139-512	39 x 25ml clip tray
B139-514	32 x 50ml clip tray
B139-516	18 x 100ml clip tray
B139-518	11 x 250ml clip tray
B139-520	6 x 500ml clip tray
B139-522	5 x 1000ml clip tray
B139-524	2 x 2000ml clip tray
B139-526	Universal spring tray
B139-528	Test tube rack tray (holds 4 from above)
B139-530	Perforated tray (without clips)

Flask Clips

With the perforated tray B139-530 it is possible to mix and match a variety of clips to suit different application. Clips are supplied with all necessary fixings to enable them to be attached to the accessory tray.

Catalogue No	Capacity of flask, ml
B139-561	25
B139-563	50
B139-565	100
B139-567	250
B139-569	500
B139-571	1000
B139-573	2000
B139-575	3000
B139-577	2800

Baths, Ultrasonic, Unheated

Suitable for sonochemistry, degassing and sample dissolution and cleaning of delicate or fragile components/glassware. Ideal for laboratory routines by using high performance piezoelectric disc transducers to ensure consistent ultrasonic activity throughout the tank liquid.

- One piece corrosion resistant stainless steel construction tank, crevice free
- Durable paint finished outer case
- Insulation at key points to reduce noise levels
- Reduced ultrasonic 'shrill' due to insulating gasket between static and vibrating surfaces
- Disc transducers for quieter operation
- Variable to 30 minute electronic timer
- Low liquid level audible alarm
- Voltage 230V, operating frequency 30 - 40 kHz

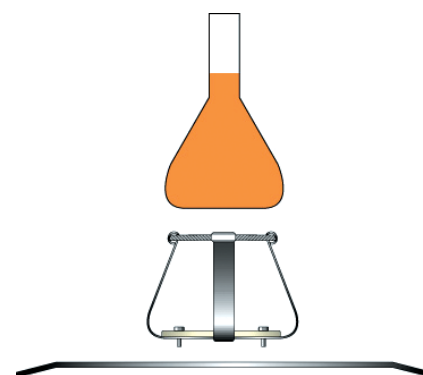
Catalogue No	Capacity, litres	Internal dimensions (wxdxh), mm	Overall dimensions (wxdxh), mm	Sonic Watts	Noise level
B142-208	8	300 x 240 x 150	332 x 270 x 290	200	<65dBa @ 1 min
B142-210	14	325 x 300 x 150	361 x 332 x 290	200	<65dBa @ 1 min
B142-212	22	500 x 300 x 150	538 x 332 x 290	300	<70dBa @ 1 min

B142-208



Note:

Ultrasonic bath accessories on the following page



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B142-258


Baths, Ultrasonic, Heated

Suitable for sonochemistry, degassing and sample dissolution and cleaning of delicate or fragile components/glassware. The heater ensures that optimum operating temperature is rapidly reached for maximum ultrasonic efficiency. Ideal for laboratory routines by using high performance piezoelectric disc transducers to ensure consistent ultrasonic activity throughout the tank liquid.

- Temperature range - ambient +5°C - 69°C
- Digital LED display
- Over temperature alarm
- Heating element with safety cut-out
- Side lifting handles for ease of transportation
- Durable paint finished outer case, powder coated and chemical resistant
- Insulation at key points to reduce noise levels
- Reduced ultrasonic 'shrill' due to insulating gasket between static and vibrating surfaces
- Disc transducers for quieter operation
- Variable 30 minute electronic runback timer with audible buzzer at end of timed period
- Low liquid level audible alarm on 8, 14 and 22 litre models
- Voltage 230V, operating frequency 30 - 40 kHz

Catalogue No	Capacity, litres	Internal dimensions (wxdxh), mm	Overall dimensions (wxdxh), mm	Sonic Watts	Noise Level
B142-254	4	300 x 150 x 150	332 x 270 x 290	150	<65dBa at 1 min
B142-258	8	300 x 240 x 150	332 x 270 x 290	200	<65dBa at 1 min
B142-262	14	325 x 300 x 150	361 x 332 x 290	200	<65dBa at 1 min
B142-266	22	500 x 300 x 150	538 x 332 x 290	300	<70dBa at 1 min

Accessories for Ultrasonic Baths



Catalogue No	Description
B142-316	Stainless steel wire basket to suit 4l
B142-318	Stainless steel wire basket to suit 8l
B142-320	Stainless steel wire basket to suit 14l
B142-322	Stainless steel wire basket to suit 22l
B142-340	Flat one piece stainless steel lid with insulated handle to suit 4l
B142-342	Flat one piece stainless steel lid with insulated handle to suit 8l
B142-344	Flat one piece stainless steel lid with insulated handle to suit -14l
B142-346	Flat one piece stainless steel lid with insulated handle to suit 22l
B142-350	Drain tap
B142-354	Ultraclear cleaning solution
B142-358	Draining syphon

Note:

For Stainless Steel Beakers please refer to **page 39**