

## Advanced digital unstirred water bath range - SUB Aqua Pro

Built to the highest standard and specifications, and incorporating the latest technology the SUB Aqua Pro advanced water bath range supports even the most demanding applications requiring accurate temperature control. Choose from eight models with base tray and lid included as standard.

- Ambient +5°C to 99°C operation
- Unique Set and Forget™ technology - fast heat-up, accurate temperature control
- Stability  $\pm 0.2^\circ\text{C}$
- Adjustable over temperature alarm - protect samples from over heating
- Advanced dry start and run dry protection
- Suitable for use with heat transfer beads. (excluding SAP2 & SAP2S)
- 3 year warranty



**Grant non-drip clear lid, included as standard** – improves performance, limits evaporation and conserves energy.

**Advanced dry run and run dry protection** – prevents costly service repairs in case bath is switched on or run without water. Simply fill and restart.

**Drain tap** – allows convenient emptying on 12L, 18L, 26L, 34L, dual 5&12L baths.

**Heater mat and sensor bonded to underside of tank** – optimised uniformity and work space. Tank easy to clean.

**Three programmable temperature presets** – allows commonly used temperatures to be quickly selected.

**User calibration** – single or dual-point for optimum accuracy at your working temperatures.

SAP12 model shown

**Clear, wide-angle viewing LED display** – instant reassurance of bath status.

**Front panel lock** disables front panel controls preventing unintentional temperature changes.

**User settable over-temperature alarm** – provides sample protection. Alerts the user and cuts off heating at user defined temperature.

**Fixed thermal cut-out** – independent safety cut-out.

**Countdown timer (1-999 mins) with audible buzzer** – for accurate reaction timing.

### Markets:

- Pharma/biotech, education, industry, healthcare









### Applications:

- Sample preparation, sample incubation, sample warming, sample thawing, media preparation, QC materials, practical science demonstration









## Unstirred water baths » SUB Aqua Pro » Specifications, options and accessories

## SUB Aqua Pro - Technical specifications

● = standard

		Advanced unstirred water baths – SUB Aqua Pro							
		SAP2	SAP2S	SAP5	SAP12	SAP18	SAP26	SAP34	SAPD
									
		h: 305mm d: 200mm w: 186mm weight: 2.5kg	h: 260mm d: 215mm w: 335mm weight: 3kg	h: 310mm d: 215mm w: 335mm weight: 3.9kg	h: 380mm d: 390mm w: 335mm weight: 6.2kg	h: 420mm d: 590mm w: 335mm weight: 9.2kg	h: 430mm d: 590mm w: 335mm weight: 9.4kg	h: 400mm d: 775mm w: 335mm weight: 13.8kg	h: 400mm d: 380mm w: 545mm weight: 9.9kg
Tank capacity	L	2	2 (shallow)	5	12	18	26	34	5 & 12
Min/max liquid depth	mm	32/40	50/125	50/125	50/125	50/125	70/175	70/166	50/125 (both)
Temperature range	°C	ambient + 5 to 99							
Temp.display and setting resolution	°C	0.1							
Temp stability (DIN 12876) @70°C	±°C	0.2							
Temperature setting/energy regulation		digital							
User adjustable over temp alarm		●							
Fixed thermal cut-out		●							
Dry start/run dry protection		●							
Programmable temp. presets		3							
Countdown timer with audible alarm		1 to 999 mins							
Working area (d x w)	mm	117 x 131	139 x 289	131 x 281	281 x 306	485 x 281	481 x 278	635 x 281	131 x 281 & 281 x 306
Drain tap		–	–	–	●	●	●	●	●
Heater power	120V/230V W	250/250	350/350	350/350	800/800	1400/1050	1400/1050	1800/1300	1150/1150
Supply voltage	V	120 or 230							
Regulatory Approval		CE and CSA approved							

## Options and accessories

	SAP2	SAP2S	SAP5	SAP12	SAP18	SAP26	SAP34	SAPD
	2L	2L	5L	12L	18L	26L	34L	5L and 12L
	<b>Replacement polycarbonate transparent lids*</b>							
	AQL2	AQL5	AQL5	AQL12	AQL26	AQL26	–	AQL5, AQL12
Directs condensation away from immersed vessels, avoids contamination, reduces evaporation and saves energy.								
	<b>Stainless steel sloping lids*</b>							
	–	LU6	LU6	LU14	LU28	LU28	LU36	LU6 & LU14
	<b>Flat lids*</b>							
	–	–	LF6 (2 ring sets)	LF14 (4 ring sets)	LF28 (6 ring sets)	LF28 (6 ring sets)	LF36 (8 ring sets)	LF6 / LF14
With ring sets of variable hole diameter to accommodate tall vessels whilst reducing evaporation.								
	<b>Polypropylene spheres*</b> (packs per bath)							
	1 x PS20	1 x PS20	1 x PS20	1 x PS20	2 x PS20	2 x PS20	3 x PS20	2 x PS20
Useful alternative to a lid, minimises evaporation and heat loss whilst allowing easy access to vessels in the bath; particularly useful for tall vessels								
	<b>Raised shelves</b> – reversible, allows two shelf depths. h = shelf height above tank base (mm)							
	–	–	–	RS14H (h 40 or 78) shelf covers half area of SAP12	RS18H (h 40 or 135) shelf covers half area of SAP18	RS28H (h 45 or 135) shelf covers half area of SAP26	RS36H (h 45 or 135) shelf covers half area of SAP34	RS14H (h 40 or 78) shelf covers half area of SAPD
	<b>Racks</b> (no. per bath)							
	–	–	1 x J2	2 x J2	4 x J2	4 x J2	6 x J2	1 + 2 x J2
Choice of 8 variants to accommodate different tube diameters and microtubes (see below).								
	<b>Replacement base trays</b>							
	AQBT2	AQBT5	AQBT5	AQBT12	AQBT26	AQBT26	SBT36	AQBT5 & AQBT12
Required if flat-bottomed flasks are to be placed directly on the base of the bath and to promote thermal convection in the bath.								
	<b>Drain stopper</b>							
	–	–	–	UWB-DS (pack of 5)	UWB-DS (pack of 5)	UWB-DS (pack of 5)	UWB-DS (pack of 5)	UWB-DS (pack of 5)
Recommended when using heat transfer beads, to prevent beads entering drain hole.								

\* lid or spheres recommended for use above 60°C.

## Unstirred water bath racks

Rack	Tube size Ø	Capacity	Rack	Tube size Ø	Capacity	Rack	Tube size Ø	Capacity	Rack	Tube size Ø	Capacity
J2-10	10mm	84	J2-16	16mm	36	J2-25	25mm	18	J2-SE	0.5ml	105
J2-13	13mm	55	J2-19	19mm	32	J2-30	30mm	12	J2-LE	1.5ml	65