# granto



# Shaking Water Baths

OLS26 combined Orbital & Linear shaking water bath Offering ultimate flexibility and usability for all applications

LSB12 & LSB18 Linear shaking water baths Superior usability for routine applications

# Shaking Water Baths

World-renowned shaking water baths from Grant. Precision temperature control combined with a robust, high quality, orbital and linear shaking mechanism that works smoothly and consistently for even the most demanding applications. Universal tray included as standard.

Soft start, quiet operation - for smooth shaking over a wide speed range

Flexible choice of linear and orbital shaking baths - for all routine and demanding techniques

Extensive range of accessories - provides the right solution for your application with a choice of vessel types



OLS26 Combined orbital and linear shaking water bath



LSB18 and LSB12 Excellent usability for all routine applications

## Liquids

We recommend the following liquids for use in Grant baths:

5°C to 99°C: Water - do not use to boil



#### OLS26

### Combined orbital/linear shaking water bath

Ultimate flexibility and usability with the combined orbital and linear shaking mechanism of the OLS26 allows optimisation of aeration and shear forces mixing, for reproducible results.

Precision digital temperature control

Temperature range 0°C to 99°C operation\*

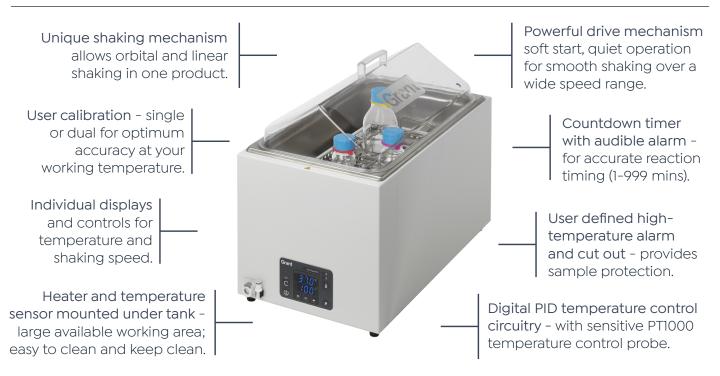
Easy changeover from linear to orbital shaking

Adjustable shaking speed and stroke length

Universal tray and polycarbonate lid included as standard

Drain tap for convenient emptying

#### 3 year warranty



<sup>\*</sup> Accessory cooling required for operation below ambient

#### **Applications**

- · General use defrosting, cooling/warming liquids, temperature control of samples
- · Life-science microbiological assays, bacterial culture, biochemical assays, enzyme assay
- · Industrial materials testing, corrosion testing
- · Biopharm solubility testing of medical coatings, dissolution, cooling crystallisation
- Food & beverage extractions, food digestion

#### OLS26

#### Technical specification

		OLS26	
Dimensions	h x d x w mm	475 × 590 × 335	
Capacity	L	26	
Temperature range	°C	Ambient +5 to 99 0 to 99 with accessory cooling CC26	
Stability (DIN 12876-3)	@70°C ±°C	0.1	
Uniformity (DIN 12876-3)	@70°C ±°C	0.1	
Working area	dxw mm	380 x 235	
Min/max liquid depth	mm	70/134	
Orbital and linear shaking speed	rpm	20 to 200 (depending on load)	
Orbital shaking radius	mm	9	
Shaking speed display resolution	rpm	1	
Linear shaking stroke length	mm	18, 28 and 36	
Display		2 x LED (individual displays and controls for temperature and shaking speed)	
Timer		1 to 999 minutes	
Drain tap		·	
Sample protection		Over temperature protection/low liquid level cut-out	
Heater power	230V W	1400	
	120V W	1050	
Supply voltage	V	120 or 230	
Weight	kg	13.1	

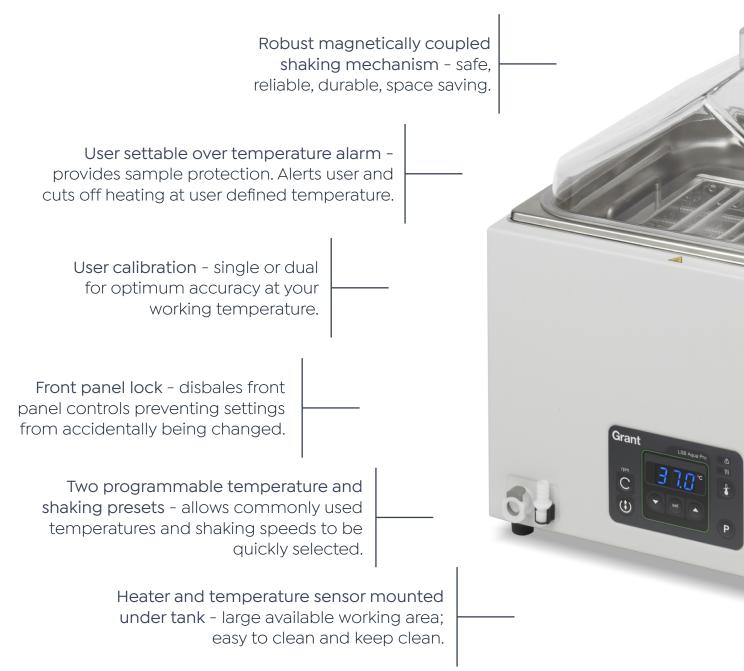


**OLS Keypad** 

# LSB Aqua Pro

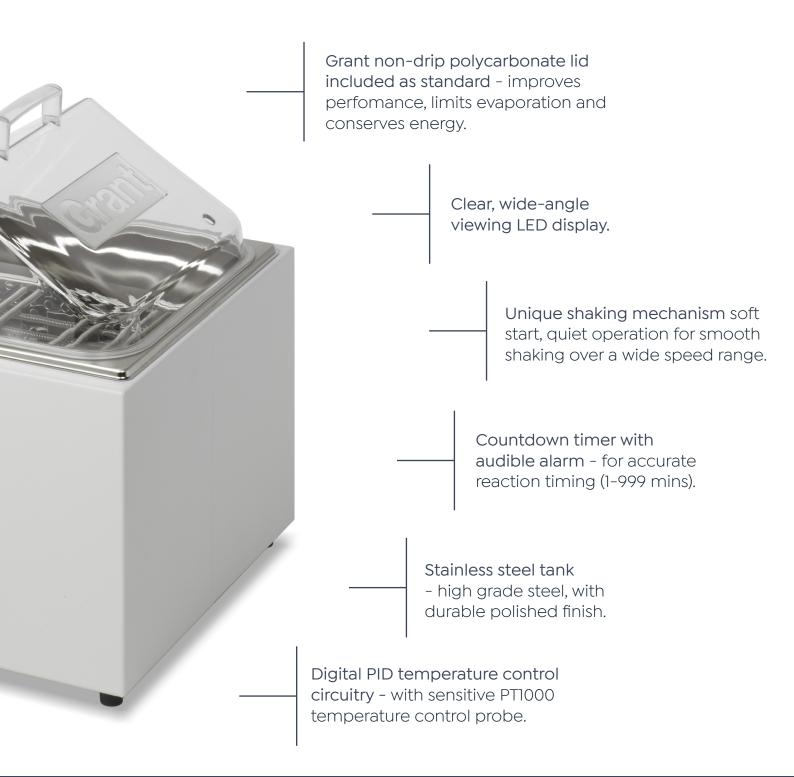
#### Linear shaking water bath

A linear shaking bath with temperature stability and intuitive digital controls, for ultimate flexibility and usability. Available ready-to-use in two sizes to suit a variety of applications including sample preparation, mixing and thawing.



# Product highlights

- Temperature range ambient +5°C to 99°C operation
- Stability: ±0.1°C
- Choice of two models 12 and 18 litres
- Extensive choice of accessory shaking trays tray sold separately
- Universal tray and polycarbonate lid included as standard
- Drain tap for convenient emptying
- 3 year warranty



# **Applications**

- Healthcare research thawing/mixing samples
- Pharmaceutical heating and mixing samples
- · Science education in schools/universities practical science demonstration and experimentation
- Industrial QC testing, sample preparation

#### LSB

#### Technical specification

		LSB12	LSB18	
Dimensions	hxdxw mm	425 x 385 x 360	425 x 565 x 335	
Capacity	L	12	18	
Temperature range	°C	Ambient +5 to 99		
Stability (DIN 12876-3)	@70°C ±°C	0.1		
Uniformity (DIN 12876-3)	@70°C ±°C	0.1		
Working area d	xw mm	240 x 235	420 x 235	
Min/max liquid depth	mm	60/93		
Linear shaking speed	rpm	20 to 200 (depending on load)		
Shaking speed display resolution	rpm	1		
Linear shaking stroke length	mm	20		
Display		LED		
Timer		1 to 999 minutes		
Drain tap		·		
Safety		Over temperature protection/low liquid level cut-out		
Heater power	230V W	800	1400	
	120V W	800	1050	
Supply voltage	V	120 or 230		
Weight	kg	8.9	11.2	



# Technical specification

		s.			
		OLS26	LSB12	LSB18	
Universal tray - inc	luded as standard				
	Universal tray - with adjustable springs. Highly versatile for a variety of vessel types.	TU26	TU12	TU18	
Flask/plate tray					
	Flask/plate tray - with threaded holes to accept flask clamps or holder for deep well plates (≥2ml).	TF26	TF12	TF18	
Test tube tray					
	Test tube tray - compatible with SR racks or can be used alone to accommodate bags and vessels. See rack options on page 62.	TS26 (holds up to 5 SR racks)	TS12 (holds up to 3 SR racks)	TS18 (holds up to 5 SR racks)	
Base tray					
	Base tray - stainless steel perforated tray allows bath to be used as an unstirred bath.	SBT26	SBT12	SBT26	
Stainless steel slop	ing lid (optional)				
	With access hole for cooling coil	LS200	LU14	LU28	
Replacement poly	Replacement polycarbonate lid				
	Replacement polycarbonate lid	AQL26 (unsuitable for use with cooling coil)	AQL12	AQL26	
Immersion cooler					
	Cooling coil - source of constant cooling to enable bath to be operated at or below ambient, down to 0°C.	CC26	-	-	
Heat exchange coil					
	Heat exchange coil - can be attached to a cold water supply or refrigerated circulator. Can be used down to 2°C above the temp of the coolant	CW26	-	-	

# Flasks and plate holder

Part number	Description	OLS26 capacity	LSB12 capacity	LSB18 capacity
SC-25	For 25ml flask	28	20	35
SC-50	For 50ml flask	24	16	28
SC-100	For 100ml flask	15	16	28
SC-250	For 250ml flask	8	9	15
SC-500	For 500ml flask	6	6	8
SC-1000	For 1000ml flask	3	4	6

#### Test tube racks

Part number	Tube Diameter (mm)	Rack Capacity
SR-10	10	48
SR-13	13	44
SR-16	16	24
SR-19	19	21
SR-25	25	12
SR-30	30	10

#### Microtube racks

Part number	Microtube size (ml)	Rack capacity
SR-SE	0.5	119
SR-LE	1.5	48

Note: For further information on all dimensions of the trays please visit: www.grantinstruments.com/scientific/water-baths/shaking-water-baths

#### Contact us today

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