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Встряхивающие водяные бани



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*

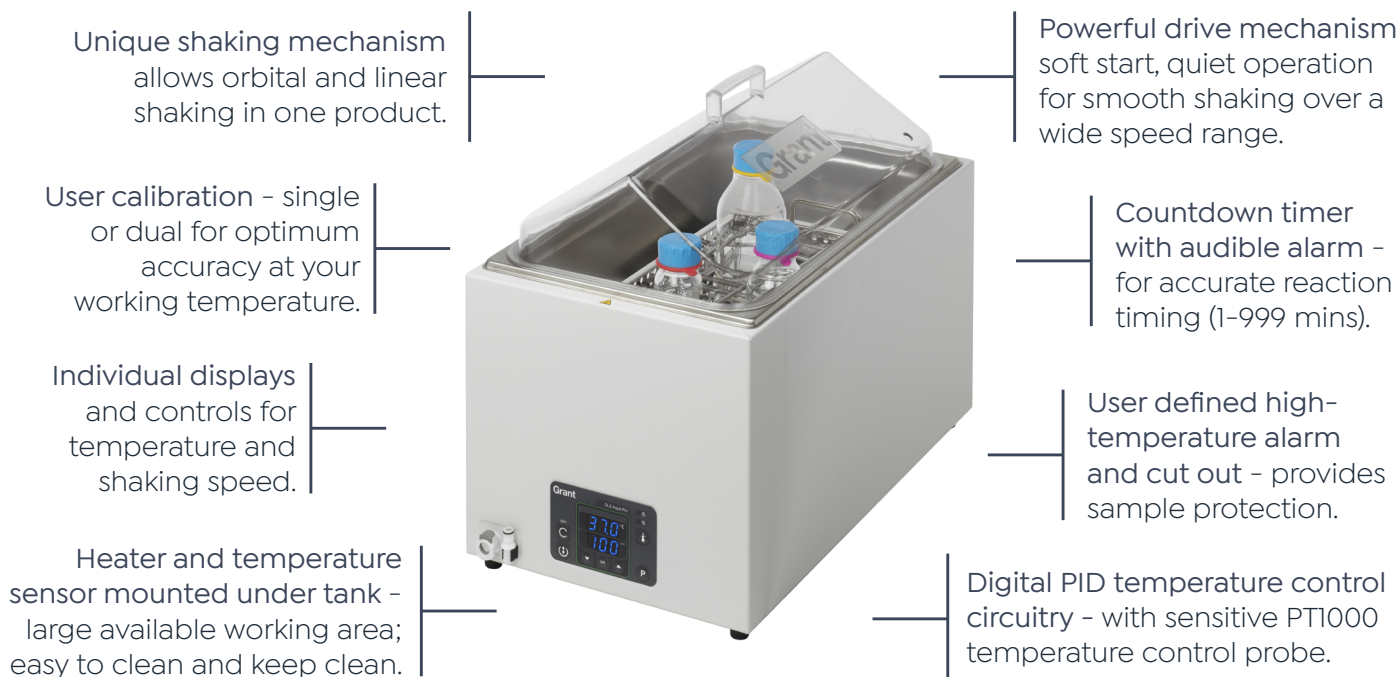
Easy changeover from linear to orbital shaking

Adjustable shaking speed and stroke length

Universal tray and polycarbonate lid included as standard

Drain tap for convenient emptying

3 year warranty



* 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	325 x 565 x 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	d x w 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

Easy to use keypad with clear, wide-angle LED display.

Quick changeover between linear and orbital shaking.



User defined high temperature alarm and cut-out - provides sample protection.

Two adjustable presets for temperature and shaking speed.

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.

Robust magnetically coupled shaking mechanism - safe, reliable, durable, space saving.

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

User calibration - single or dual for optimum accuracy at your working temperature.

Front panel lock - disables front panel controls preventing settings from accidentally being changed.

Two programmable temperature and shaking presets - allows commonly used temperatures and shaking speeds to be quickly selected.

Heater and temperature sensor mounted under tank - large available working area; easy to clean and keep clean.



Product highlights

- Temperature range ambient +5°C to 99°C operation
- Stability: $\pm 0.1^{\circ}\text{C}$
- 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



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

Clear, wide-angle viewing LED display.

Unique shaking mechanism soft start, quiet operation for smooth shaking over a wide speed range.

Countdown timer with audible alarm - for accurate reaction timing (1-999 mins).

Stainless steel tank - high grade steel, with durable polished finish.



Digital PID temperature control circuitry - with sensitive PT1000 temperature control probe.

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	h x d x w 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 x w 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

Easy to use keypad with clear, wide-angle LED display.

Front panel lock to prevent unwanted setting changes.






LSB Keypad

User defined high temperature alarm and cut-out - provides sample protection.

Two adjustable presets for temperature and shaking speed.

Technical specification

				
		OLS26	LSB12	LSB18
Universal tray - included 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 ($\geq 2\text{ml}$).	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 sloping lid (optional)				
	With access hole for cooling coil	LS200	LU14	LU28
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

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