



Benchtop Water Bath Shaker



MaxQ 7000

**For a complete system order:
1. Shaker 2. Platform 3. Clamps**

Product Description

- Easy access drain system with quick disconnect is located in the front of the cabinet for convenience in draining and disinfecting the system.
- Minimize splashing and turbulence in the chamber with twin baffles even at high speeds.
- Prevent heat loss and minimize evaporation with the use of optional covers.

Operation

- Shakers feature a triple eccentric drive that handles heavy workloads, provides uniform agitation and enables continuous 24-hour operation even at high speeds.
- Water bath temperature is monitored and controlled over the entire range with accuracy of $\pm 0.2^{\circ}\text{C}$ at 37°C in flask with PID temperature controller.

Analog Operating System

- DC motor and variable speed control from 40 to 400 rpm, controlled by a rotary dial.
- Integrated tachometer monitors and displays speed in rpm to guarantee an accurate setting.
- Easy-to-read LED digital display shows temperature.
- Operate shaker in continuous mode or set timer from 1 to 60 minutes for time studies.

Digital Operating System

- Solid state DC brushless motor, variable speed control from 15 to 500

Max^Q™ 7000 Easy Front Access Drain System with Quick Disconnect!

- Choose between analog and digital operating systems.
- 5 year warranty on parts, one year labor and *LIFETIME* on drive mechanism.



rpm, and continuous and timed operation from 0.1 hour up to 99.9 hours or 0.1 minute to 99.9 minutes.

- Displayed time counts up during continuous operation and down during timed runs.
- View speed, operating time and temperature simultaneously on 3 individual LED displays which helps minimize errors in establishing running conditions.
- Visual/audible signals alert you to temperature deviations and low water levels. Heat turns off if temperature deviates $\pm 1^{\circ}\text{C}$ of set-point.
- Shaker shut down and audible/visual alarms signal if unit operates $\pm 10\%$ of set speed prevents shaker from walking.
- User adjustable speed calibration can be performed using a digital hand held tachometer where verification is required and protocols can be standardized.
- Unbalanced load sensor stops platform motion when excess vibration is detected due to unbalanced load. Visual/audible alarm signal until condition is corrected.
- Soft start feature eliminates splashing of vessel contents, wetting of flask closure, and helps prevent sudden starts and stops.
- Power interruptions will not alter results due to set point retention that retains parameters during power failure and restarts unit automatically after power is restored.
- RS232 interface allows remote monitoring of speed, time and temperature.
- Monitor temperature with built-in recorder jack for output to chart recorders for a permanent record.

Lab-Line Shakers



Safety

- Over temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.

Applications

- Cell cultures
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General Mixing
- Bacterial suspensions
- Staining
- Destaining
- Washing procedures
- Hybridization

ORDERING INFORMATION

Model #	Speed Range (rpm)	Orbit Diameter Inches (cm)	Maximum Load Lbs (kg)	Temperature Range and Accuracy	Overall Dimensions Inches (cm)			Power	Shipping Weight Lbs (kg)	US List Price
					L	W	H			
Water Bath Shaker - Analog										
SHKA7000 ^{1,3}	40 to 400	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C; +/-0.2°C at 37°C in flask	25 (63.5)	21.5 (54.6)	18 (45.7)	120V, 50/60 Hz	107 (48.5)	\$4,645.00
SHKA7000-1CE ^{1,2,3}	40 to 400	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C; +/-0.2°C at 37°C in flask	25 (63.5)	21.5 (54.6)	18 (45.7)	240V, 50/60 Hz	107 (48.5)	\$4,645.00
Water Bath Shaker - Digital										
SHKE7000 ^{1,3}	15 to 500 +/-1 rpm	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C; +/-0.2°C at 37°C in flask	25 (63.5)	21.5 (54.6)	18 (45.7)	120V, 50/60 Hz	107 (48.5)	\$5,435.00
SHKE7000-1CE ^{1,2,3}	15 to 500 +/-1 rpm	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C; +/-0.2°C at 37°C in flask	25 (63.5)	21.5 (54.6)	18 (45.7)	240V, 50/60 Hz	107 (48.5)	\$5,435.00

¹ CUL, ² CE, ³ UL

ACCESSORIES

Universal Platform				US List Price	MaxQ 7000 Water Bath Shaker Accessories				US List Price
Model #	Description				Model #	Description			
30105	Universal 11" x 13" (27.9 x 33 cm) Platform			\$141.00	SHK7000-37	Cooling Coil for near-ambient temperature and below			\$155.00
Clamps for Universal Platform					SHK7000-30	Stainless Steel Gable Cover for temperatures up to 90°C			\$361.00
Model #	Vessel Size	Maximum # of vessels per platform size 11" x 13" (27.9 x 33 cm)		US List Price	SHK7000-32	Plexiglas™ Gable Cover for temperatures up to 65°C			\$412.00
30175	Microplate/ Deep Well Plate	5		\$18.00	SHK7000-35	Plexiglas Gassing Hood for addition of CO ₂ into the chamber			\$450.00
30150	10 ml Flask	60		\$16.00	SHK7000-40	Four Auxiliary Platform Suspension Arms for rapid platform changes			\$145.00
30151	25 ml Flask	60		\$16.00	SHK7000-45	Movable Dolly for under lab bench operation			\$570.00
30152	50 ml Flask	30		\$18.00	SHK7000-48	Mobile Cart			\$801.00
30153	125 ml Flask	13		\$18.00					
30154	250 ml Flask	9		\$21.00					
30155	300 ml Flask	7		\$21.00					
30156	500 ml Flask	6		\$24.00					
30157	1 Liter Flask	4		\$33.00					
30158	2 Liter Flask	1		\$43.00					
30159	4 Liter Flask	1		\$57.00					
30160	6 Liter Flask	1		\$66.00					
30161	2500 ml Low Form Culture Flask	1		\$82.00					
30162	2800 ml Fernbach Flask	1		\$58.00					
Model #	Vessel Size	# of tubes per rack	# of racks per platform	US List Price					
30164	10 to 13 mm Test Tube Rack	60	2	\$98.00					
30168	14 to 16 mm Test Tube Rack	48	2	\$89.00					
30165	18 to 20 mm Test Tube Rack	44	2	\$98.00					
30166	22 to 25 mm Test Tube Rack	24	2	\$98.00					
30167	50 ml Centrifuge Tube Rack	24	2	\$98.00					

More universal clamps are available along with dedicated platforms and clamps. See catalog pages 246-249 for additional information on these platforms.