Lab-Line Incubators



MaxQ 4000 Incubated and Refrigerated Shakers



MaxQ 4000

Product Description

- Choose from three temperature ranges to fulfill a variety of molecular biology, cell and insect culture and entomology studies.
- Clear acrylic lid allows you to view samples without disturbing internal temperature.

Operation

- Shakers feature a triple eccentric drive that handles heavy workloads, provides uniform agitation and enables continuous 24-hour operation even at high speeds.
- Precisely monitor and control chamber temperature over complete range with ±0.1°C accuracy at 37° 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 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 separate LED displays, which helps minimize errors in establishing running conditions.

Combine Incubated/Low Temperatures with an Orbital Shaker.

- · Choose between analog and digital operating systems
- User adjustable speed calibration for required verification
- Unbalanced load sensor stops platform motion
- ☆ 5 year warranty on parts and LIFETIME on mechanism.



- User adjustable speed calibration can be performed using a hand held digital tachometer where verification is required and protocols can be standardized.
- Unbalanced load sensor stops platform motor when excess vibration is detected due to unbalanced load. Visual/audible alarm signal until condition is corrected.
- Visual/audible signals alert you to temperature deviations. Heat turns off if temperature deviates $\pm 1^{\circ}$ C of set point.
- Shaker shut down and audible/visual alarms signal if unit operates ±10% of set speed, preventing shaker from walking.
- Soft start feature eliminates splashing of vessel contents, wetting of flask closure and helps prevent sudden starts and stops.
- Set point retention 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.

Safety

- Over temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.
- · Safety interlock stops platform motion when the lid is open.



Lab-Line Incubators



Applications

- Cell cultures
- Solubility studiesDiagnostic tests
- Extraction proceduresGeneral mixingStaining & destaining
- Bacterial suspensions
 - Washing procedures
- Hybridizations
- For a complete system, order:
- 1. Shaker 2. Platform 3. Clamps

				ORDERING INFORMATI	ON					
Model #	Speed O Range Dia odel# (rpm) Inch		Maximum Load Lbs (kg)	Temperature Range and Accuracy	Overall Dimensions Inches (cm) L W H			Power	Shipping Weight Lbs (kg)	US List Price
Bench Top Incub			(3/	,						
SHKA4000	40 to 400	0.75 (1.9)	35 (15.9)	5°C above ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	120V. 50/60 Hz	167 (75.8)	\$4,898.00
SHKA4000-1CE	40 to 400	0.75 (1.9)	35 (15.9)	5°C above ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	240V, 50/60 Hz	167 (75.8)	\$4,898.00
Bench Top High 1	emperature	Incubated Shak	er - Analog	· · · · · · · · · · · · · · · · · · ·						
SHKA4000-5	40 to 400	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	120V, 50/60 Hz	167 (75.8)	\$5,150.00
SHKA4000-6CE	40 to 400	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	240V,50/60 Hz	167 (75.8)	\$5,150.00
Bench Top Refrig	erated Shake	ar - Analog								
SHKA4000-7	40 to 400	0.75 (1.9)	35 (15.9)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	120V. 50/60 Hz	212 (96.2)	\$6,475.00
SHKA4000-8CE	40 to 400	0.75 (1.9)	35 (15.9)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	240V, 50/60 Hz	212 (96.2)	\$6,475.00
Bench Top Incub	ated Shaker -	Digital								
SHKE4000	15 to 500 +/-1 rpm	0.75 (1.9)	35 (15.9)	5°C above ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	120V, 50/60 Hz	167 (75.8)	\$5,560.00
SHKE4000-1CE	15 to 500 +/-1 rpm	0.75 (1.9)	35 (15.9)	5°C above ambient to $60^{\circ}\text{C};$ +/-0.1 $^{\circ}\text{C}$ at 37 $^{\circ}\text{C}$ in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	240V, 50/60 Hz	167 (75.8)	\$5,560.00
Bench Top High 1	emperature	Incubated Shak	er - Digital							
SHKE4000-5	15 to 500 +/- 1 rpm	0.75 (1.9)	35 (15.9)	5°C above ambient to $80^{\circ}\text{C};$ +/-0.1 $^{\circ}\text{C}$ at 37 $^{\circ}\text{C}$ in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	120V, 50/60 Hz	167 (75.8)	\$5,975.00
SHKE4000-6CE	15 to 500 +/-1 rpm	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	240V, 50/60 Hz	167 (75.8)	\$5,975.00
Bench Top Refrig	erated Shake	er - Digital								
SHKE4000-7	15 to 500 +/-1 rpm	0.75 (1.9)	35 (15.9)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	120V, 50/60 Hz	212 (96.6)	\$6,795.00
SHKE4000-8CE	15 to 500 +/-1 rpm	0.75 (1.9)	35 (15.9)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	240V, 50/60 Hz	212 (96.2)	\$6,795.00
				Accessories						

ACCESSORIES											
Universal P	Platform			Clamps for Universal Platform							
Model #	Description		US List Price			Maximum number of vessels per platform size	US List				
30110	Universal 18" x 18" (45.7 x 45	.7 cm) Platform	\$214.00	Model #	Vessel Size	18" x 18" (45.7 x 45.7 cm)	Price				
Clamps for	Universal Platform			30152	50 ml Flask	32	\$18.00				
Ciamps for	Maximum number of vessels			30153	125 ml Flask	32	\$18.00				
		per platform size	US List	30154	250 ml Flask	16	\$21.00				
Model #	Vessel Size	18" x 18" (45.7 x 45.7 cm)	Price	30155	300 ml Flask	16	\$21.00				
30175	Microplate/ Deep Well	Plate 10	\$18.00	30156	500 ml Flask	16	\$24.00				
30150	10 ml Flask	113	\$16.00	30157	1 Liter Flask	5	\$33.00				
30151	25 ml Flask	64	\$16.00	30158	2 Liter Flask	4	\$43.00				

More universal clamps are available along with dedicated platforms and clamps. Refer to pages 246 - 249 for additional platforms and clamps.

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