

## Lab-Line Shakers



# Incubated and Refrigerated Floor Shakers



MaxQ 5000

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

### Product Description

- Observe flask contents without opening the door through a large slanted viewing window.
- Foot pedal opens the door automatically for hands free operation.
- A light bank is available on the low temperature shaker to mimic day and night conditions for plant and algae growth.

### Operation

- Shakers feature a triple eccentric drive to handle heavy workloads, provide uniform agitation and enable continuous 24-hour operation even at high speeds.
- PID temperature controller precisely monitors and controls chamber temperature over complete range with  $\pm 0.1^{\circ}\text{C}$  accuracy at  $37^{\circ}\text{C}$ .

### Analog Operating Systems

- 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.

## Max<sup>Q</sup>™ 5000

### Gives You Hands Free Operation!

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



### Digital Operating Systems

- 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.
- 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. 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 preventing 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.
- 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.

## 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
- Extraction procedures
- General mixing
- Staining & destaining
- Hybridizations
- Solubility studies
- Plant Growth
- Bacterial suspensions
- Washing procedures

### 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			
<b>Floor Incubating Shaker - Analog</b>										
SHKA5000	40 to 400	1 (2.54)	75 (34)	5°C above ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	120V, 50/60 Hz	476 (215.9)	\$8,143.00
SHKA5000-1CE	40 to 400	1 (2.54)	75 (34)	5°C above ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	240V, 50/60 Hz	476 (215.9)	\$8,143.00
<b>Floor Refrigerated Shaker - Analog</b>										
SHKA5000-7	40 to 400	1 (2.54)	75 (34)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	120V, 50/60 Hz	512 (232.2)	\$9,759.00
SHKA5000-8CE	40 to 400	1 (2.54)	75 (34)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	240V, 50/60 Hz	512 (232.2)	\$9,759.00
<b>Floor Incubating Shaker - Digital</b>										
SHKE5000	15 to 500	1 (2.54)	75 (34)	5°C above ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	120V, 50/60 Hz	476 (215.9)	\$9,399.00
SHKE5000-1CE	15 to 500 +/- 1 rpm	1 (2.54)	75 (34)	5°C above ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	240V, 50/60 Hz	476 (215.9)	\$9,399.00
<b>Floor Refrigerated Shaker - Digital</b>										
SHKE5000-7	15 to 500 +/- 1 rpm	1 (2.54)	75 (34)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	120V, 50/60 Hz	512 (232.2)	\$10,686.00
SHKE5000-8CE	15 to 500 +/- 1 rpm	1 (2.54)	75 (34)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	240V, 50/60 Hz	512 (232.2)	\$10,686.00
<b>Floor Refrigerated Shaker with Light Bank - Digital*</b>										
SHKE5000-7LB	15 to 500 +/- 1 rpm	1 (2.54)	75 (34)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	35 (88.9)	41 (104.1)	41 (104.1)	120V, 50/60 Hz	512 (232.2)	\$11,400.00
SHKE5000-8CELB*	15 to 500 +/- 1 rpm	1 (2.54)	75 (34)	15°C below ambient to 60°C; +/-0.1°C at 37°C in flask	35 (88.9)	41 (104.1)	41 (104.1)	240V, 50/60 Hz	512 (232.2)	\$11,400.00

\* Lights can cycle on/off up to 20 times/day or 140 times/week with a programmable light controller.

### ACCESSORIES

Universal Platform			Clamps for Universal Platform							
Model #	Description	US List Price	Model #	Vessel Size	Maximum number of vessels per platform size 30" x 18" (76.2 x 45.7 cm)	US List Price				
30115	Universal 30" x 18" (76.2 x 45.7 cm) Platform	\$580.00	30175	Microplate/ Deep Well Plate	18	\$18.00				
<p><b>More universal clamps are available along with dedicated platforms and clamps. See catalog pages 246-249 for additional information on these platforms.</b></p>							30154	250 ml Flask	24	\$21.00
							30155	300 ml Flask	20	\$21.00
							30156	500 ml Flask	18	\$24.00
							30157	1 Liter Flask	12	\$33.00
							30158	2 Liter Flask	6	\$43.00
							30159	4 Liter Flask	6	\$57.00
							30160	6 Liter Flask	3	\$66.00
							30161	2500 ml Low Form Culture Flask	3	\$82.00
							30162	2800 ml Fernbach Flask	5	\$58.00