

Lab-Line Shakers



Open-Air Platform Shakers



MaxQ 2000 Shaker

MaxQ 3000 Shaker

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

Max^Q™ 2000 & 3000 Choose from several platform sizes!

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



Operation

- Triple eccentric drive enables continuous 24-hour operation, handles heavier loads and provides smooth uniform agitation of full or unbalanced loads even at high speeds.
- Units operate in temperature ranges of 4 to 40°C and humidity conditions from 20 to 80% noncondensing enabling them to be used in incubators, warm rooms, environmental chambers and refrigerators.
- Leveling feet provide more stability at high load speed combinations.

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 accurate setting.
- Operate shaker in continuous mode or set timer from 1 to 60 minutes for time studies.
- Metal locking tab on the speed control knob prevents speed from increasing or decreasing if control knob is mistakenly bumped.

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 and operating time simultaneously on 2 individual LED displays which helps minimize errors in establishing running conditions.
- Shaker shut down and audible/visual alarms signal if unit operates +/-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 and time.

Applications

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

Lab-Line Shakers



ORDERING INFORMATION

Model #	Speed Range (rpm)	Orbit Diameter Inches (cm)	Maximum Load Lbs (kg)	Operating Environment	Overall Dimensions Inches (cm)			Power	Shipping Weight Lbs (kg)	US List Price
					L	W	H			
Small Capacity Open Air Shakers - Analog										
SHKA2000 ^{1,3}	40 to 400	0.75 (1.9)	35 (15.9)	0 to 40°C; 20 to 80% RH non-condensing	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	120V, 50/60 Hz	47 (21.3)	\$1,347.00
SHKA2000-1CE ^{1,2,3}	40 to 400	0.75 (1.9)	35 (15.9)	0 to 40°C; 20 to 80% RH non-condensing	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	240V, 50/60 Hz	47 (21.3)	\$1,347.00
Large Capacity Open Air Shakers – Analog										
SHKA3000 ^{1,3}	40 to 400	1.0 (2.54)	50 (22.7)	0 to 40°C; 20 to 80% RH non-condensing	25.8 (65.5)	29.4 (74.7)	9.7 (24.6)	120V, 50/60 Hz	207 (93.9)	\$3,650.00
SHKA3000-1CE ^{1,2,3}	40 to 400	1.0 (2.54)	50 (22.7)	0 to 40°C; 20 to 80% RH non-condensing	25.8 (65.5)	29.4 (74.7)	9.7 (24.6)	240V, 50/60 Hz	207 (93.9)	\$3,650.00
Small Capacity Open Air Shakers - Digital										
SHKE2000 ^{1,3}	15 to 500 +/-1 rpm	0.75 (1.9)	35 (15.9)	0 to 40°C; 20 to 80% RH non-condensing	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	120V, 50/60 Hz	47 (21.3)	\$1,805.00
SHKE2000-1CE ^{1,2,3}	15 to 500 +/-1 rpm	0.75 (1.9)	35 (15.9)	0 to 40°C; 20 to 80% RH non-condensing	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	240V, 50/60 Hz	47 (21.3)	\$1,805.00
Large Capacity Open Air Shakers - Digital										
SHKE3000 ^{1,3}	15 to 500 +/- 1 rpm	1.0 (2.54)	50 (22.7)	0 to 40°C; 20 to 80% RH non-condensing	25.8 (65.5)	29.4 (74.7)	9.7 (24.6)	120V, 50/60 Hz	207 (93.9)	\$4,450.00
SHKE3000-1CE ^{1,2,3}	15 to 500 +/-1 rpm	1.0 (2.54)	50 (22.7)	0 to 40°C; 20 to 80% RH non-condensing	25.8 (65.5)	29.4 (74.7)	9.7 (24.6)	240V, 50/60 Hz	207 (93.9)	\$4,450.00

¹ CUL, ² CE, ³ UL

ACCESSORIES

Universal Platforms				Clamps for Universal Platforms								
Model #	Description	Maximum number of vessels per platform size (Inches)		Model #	Vessel Size	No. of Tubes/rk	Number of racks per platform					US List Price
		11x13	18x18				11x13	18x18	18x24	30x18	36x24	
30100	Universal 11" x 13" (27.9 x 33 cm) Platform for Max ^Q 2000 Shaker	5	10	30164	10 to 13 mm Test Tubes	60	2	4	5	7	10	\$98.00
30110	Universal 18" x 18" (45.7 x 45.7 cm) Platform for Max ^Q 2000 Shaker	60	113	30168	14 to 16 mm Test Tubes	48	2	4	5	7	10	\$89.00
30106	Universal 18" x 24" (45.7 x 60.9 cm) Platform for Max ^Q 2000 Shaker	60	64	30165	18 to 20 mm Test Tubes	44	2	4	5	7	10	\$98.00
30115	Universal 30" x 18" (76.2 x 45.7 cm) Platform for Max ^Q 3000 Shaker	30	32	30166	22 to 25 mm Test Tubes	24	2	4	5	7	10	\$98.00
30120	Universal 36" x 24" (91.4 x 60.9 cm) Platform for Max ^Q 3000 Shaker	13	32	30167	50 ml Centrifuge Tubes	24	2	4	5	7	10	\$98.00
30124	Universal 30" x 18" (76.2 x 48.7 cm) Dual Platform for Max ^Q 3000 Shaker	9	16									
Clamps for Universal Platforms												
30175	Microplate/ Deep Well Plate	1	4									
30150	10 ml Flask	1	4									
30151	25 ml Flask	1	4									
30152	50 ml Flask	1	4									
30153	125 ml Flask	1	4									
30154	250 ml Flask	1	4									
30155	300 ml Flask	1	4									
30156	500 ml Flask	1	4									
30157	1 Liter Flask	1	4									
30158	2 Liter Flask	1	4									
30159	4 Liter Flask	1	4									
30160	6 Liter Flask	1	4									
30161	2500 ml Low Form Culture Flask	1	4									
30162	2800 ml Fernbach Flask	1	4									

Dedicated platforms with clamps are also available. See catalog pages 246-249 for additional information on these platforms.