

Lab-Line Incubators



MaxQ 5000 Incubated and Refrigerated Floor Shakers



MaxQ 5000

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°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.

Hands Free Operation!

- Choose between analog and digital operating systems
- Drain makes clean-up of spills trouble-free
- Retractable foot casters allow easy manipulation
- ☆ 5 year warranty on parts and LIFETIME on mechanism.

Digital Operating Systems

- 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.
- 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 separate 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.
- 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.

Safety

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

Lab-Line Incubators



Applications

- Cell cultures
- Extraction procedures
- General mixing
- Staining & destaining
- Hybridizations
- Solubility studies
- Plant growth
- Bacterial suspensions
- Washing procedures

For a complete system, order:

1. Shaker
2. Platform
3. Clamps

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			
Floor Incubating Shaker - Analog										
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
Floor Refrigerated Shaker - Analog										
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
Floor Incubating Shaker - Digital										
SHKE5000	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)	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
Floor Refrigerated Shaker - Digital										
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
Floor Refrigerated Shaker with Light Bank - Digital*										
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		30156	500 ml Flask	18	\$24.00
Clamps for Universal Platform				30157	1 Liter Flask	12	\$33.00
Model #	Vessel Size	Maximum number of vessels per platform size 30" x 18" (76.2 x 45.7 cm)	US List Price	30158	2 Liter Flask	6	\$43.00
30175	Microplate/ Deep Well Plate	18	\$18.00	30159	4 Liter Flask	6	\$57.00
30154	250 ml Flask	24	\$21.00	30160	6 Liter Flask	3	\$66.00
30155	300 ml Flask	20	\$21.00	30161	2500 ml Low Form Culture Flask	3	\$82.00
				30162	2800 ml Fernbach Flask	5	\$58.00

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