



MaxQ 4000 shaker
Model No. SHKE4000

Thermo Scientific MaxQ 4000 Large Incubated and Refrigerated Shakers

Combines Incubated/ Refrigerated Temperatures in an Orbital Shaker with a Spacious Chamber

- Spacious chamber holds six 2L flasks.
- View speed, time and temperature simultaneously.
- Choose from three temperature ranges.
- Clear lid allows sample viewing without disturbing chamber atmosphere.
- Choice of analog or digital operating systems.
- Five year warranty on parts, one year labor and *LIFETIME* on mechanism.

Operation

- Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
- Monitor and control chamber temperature range with $\pm 0.1^\circ\text{C}$ accuracy at 37°C .

Analog Operating System

- 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 temperature display.
- Operate shaker in continuous mode or set timer from 1 to 60 minutes.

Digital Operating System

- Variable speed control from 15 to 500 rpm.
- Continuous/timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes.
- View speed, operating time and temperature simultaneously on three individual LED displays.

- Visual/audible alarms alert you to temperature deviations. Heat turns off if temperature deviates $\pm 1^\circ\text{C}$ of set point.
- Shaker shuts down and visual/audible alarms signal if unit operates $\pm 10\%$ of set speed, preventing shaker from walking.
- User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardized.
- Unbalanced load sensor stops platform motion when excess vibration is detected and visual/audible alarms signal until condition is corrected.
- Soft start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure.
- Retains parameters during power failure and restarts automatically after power is restored.

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 lid is opened.

Applications

- Cell culture
- Extraction procedures
- General mixing
- Staining and destaining
- Hybridizations
- Solubility studies
- Plasmid purification
- Bacterial suspensions
- Washing procedures
- Protein expression

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

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
					L	W	H			
MaxQ 4000 – Large Incubated Bench-Top Shaker										
Analog	40-400	0.75 (1.9)	50 (22.7)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	167 (75.8)	SHKA4000	SHKA4000-1CE
Digital	15-500 ±1	0.75 (1.9)	50 (22.7)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	167 (75.8)	SHKE4000	SHKE4000-1CE
MaxQ 4000 – Large Incubated High Temperature Bench-Top Shaker										
Analog	40-400	0.75 (1.9)	50 (22.7)	10°C above ambient to 80°C ±0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	167 (75.8)	SHKA4000-5	SHKA4000-6CE
Digital	15-500 ±1	0.75 (1.9)	50 (22.7)	10°C above ambient to 80°C ±0.1°C at 37°C in flask	32 (81.3)	22.5 (57.2)	22 (55.9)	167 (75.8)	SHKE4000-5	SHKE4000-6CE
MaxQ 4000 – Large Incubated and Refrigerated Bench-Top Shaker										
Analog	40-400	0.75 (1.9)	50 (22.7)	15°C below ambient to 60°C ±0.1°C at 37°C in flask	34 (86.4)	22.5 (57.2)	22 (55.9)	212 (96.2)	SHKA4000-7	SHKA4000-8CE
Digital	15-500 ±1	0.75 (1.9)	50 (22.7)	15°C below ambient to 60°C ±0.1°C at 37°C in flask	34 (86.4)	22.5 (57.2)	22 (55.9)	212 (96.2)	SHKE4000-7	SHKE4000-8CE

REQUIRED ACCESSORIES

MaxQ 4000				Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms – Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	18 x 18" (45.7 x 45.7 cm)	Platform without Clamps	30110
	Dedicated Platforms Clamps come installed to provide maximum capacity.	18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

UNIVERSAL CLAMP GUIDE

Universal Platform Clamps		Clamp Capacity Guide	
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.		Max. clamp capacity of vessels for the Universal Platform	
Clamp	Model No.	MaxQ 4000 18 x 18" (45.7 x 45.7 cm)	
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	30129		
Microplate/Deep-well plate	30175	10	
10 ml Erlenmeyer Flask	30150BI	113	
25 ml Erlenmeyer Flask	30151	64	
50 ml Erlenmeyer Flask	30152BI	32	
125 ml Erlenmeyer Flask	30153	32	
250 ml Erlenmeyer Flask	30154BI	16	
300 ml Erlenmeyer Flask	30155	16	
500 ml Erlenmeyer Flask	30156BI	16	
1L Erlenmeyer Flask	30157BI	9	
2L Erlenmeyer Flask	30158	6	
2500 ml Low Form Culture Flask	30161	1	
2800 ml Fernbach Flask	30162	4	
Adhesive Flask Mat, 9 x 9" (23 x 23cm)	300349 ³	–	
Test Tube Racks – Full Size			
10-13 mm, red, 6 x 12 array	30180BI	6	
14-16 mm, orange, 6 x 12 array	30182 ¹	4	
17-20 mm, white, 4 x 10 array	30184	5	
21-25 mm, blue, 4 x 10 array	30186	3	
26-30 mm, green, 3 x 8 array	30188 ²	4	
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	30190	5	
Test Tube Racks – Half Size			
10-13 mm, red, 6 x 6 array	30181	12	
14-16 mm, orange, 6 x 6 array	30183 ¹	6	
17-20 mm, white, 4 x 5 array	30185	8	
21-25 mm, blue, 4 x 4 array	30187	6	
26-30 mm, green, 3 x 3 array	30189 ²	9	
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	30191	8	

¹Fits 15 ml centrifuge tubes ²Fits 50 ml centrifuges tubes ³Can be cut to fit, reusable

DEDICATED PLATFORMS WITH CLAMPS

Clamps come installed to provide maximum capacity			
Platform Size	Description	Capacity	Model No.
18 x 18" (45.7 x 45.7 cm)	10 ml Erlenmeyer Flask	113	3524-1
	25 ml Erlenmeyer Flask	64	3524-2
	50 ml Erlenmeyer Flask	64	3524-3
	125 ml Erlenmeyer Flask	32	3524-4
	250 ml Erlenmeyer Flask	25	3524-5
	300 ml Erlenmeyer Flask	16	3524-6
	500 ml Erlenmeyer Flask	16	3524-7
	1L Erlenmeyer Flask	9	3524-8
	2L Erlenmeyer Flask	5	3524-9
	10 ml Beaker	152	3524-35
	20 ml Beaker	104	3524-36
	30 ml Beaker	104	3524-37
	100 ml Beaker	44	3524-38
	250 ml Beaker	25	3524-39
	400 ml Beaker	25	3524-40
	600 ml Beaker	16	3524-41
	Utility Tray	–	–
18" x 18" Adjustable Vessel Platform	–	–	3524-60

MISCELLANEOUS ACCESSORIES

MaxQ 4000	Model No.
Gassing manifold with 8 outlets (factory installed)	SHK4000-8GM

Note: Optional gassing manifold enables direct gassing into flasks for anaerobic cultures.



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