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Thermo Scientific MaxQ Shakers

Increase your product yield with our MaxQ Shaker collection

Part of Thermo Fisher Scientific

Thermo SCIENTIFIC

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Type		Benchtop (B), Floor (F) Stackable (S)	Motion	Platform Size Inches (cm)	250ml Flask Capacity Dedicated Platform
MaxQ 2000		B	Orbital	11 x 13 (33 x 28)	12
				18 x 18 (45.7 x 45.7)	25
				18 x 24 (45.7 x 60.9)[1]	N/A
MaxQ 3000		F	Orbital	30 x 18 (76 x 45.7)	40
				36 x 24 (91 x 61)	70
MaxQ 2506/2508		B	Orbital/ Recipro-cating	11 x 13 (33 x 28)	10
				18 x 18 (45.7 x 45.7)	25
				18 x 24 (45.7 x 60.9)	24
MaxQ 4450		B	Orbital	11 x 13 (33 x 28)	10
MaxQ 4000		B	Orbital	18 x 18 (45.7 x 45.7)	25
MaxQ 5000		F	Orbital	30 x 18 (76 x 45.7)	40
MaxQ 6000		S	Orbital	18 x 18 (45.7 x 45.7)	25
MaxQ 7000		B	Orbital	11 x 13 (28 x 33)	9

[1]Universal platform only

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Thermo Scientific MaxQ Shakers

250ml Flask Capacity Universal Platform	Maximum Capacity Largest Flask on a Platform	Orbit Diameter Reciprocating Motion Inches (cm)	RPM Range	Temperature Range °C (T_A=Ambient Temperature)	Maximum Load Lb. (kg)	Refrigeration	Gassing Manifold	Page
9	1 x 6L	0.75 (1.9)	Analog: 40 - 400 Digital: 15 - 500	N/A	35 (15.9)			**5 - 7**
16	2 x 6L							
24	3 x 6L							
24	3 x 6L	1.0 (2.54)	Analog: 40 - 400 Digital: 15 - 500	N/A	50 (22.7)			**5 - 7**
40	6 x 6L							
9	1 x 6L	2508: 0.4 (1.2)[2]	2508 Analog: 40 - 400	N/A	15 (6.8)			**8 - 9**
16	2 x 6L	2506: 0.5 to 1.5 (1.2 to 3.8)[3]	2506 Analog: 10 - 250					
24	3 x 6L							
9	1 x 2.5L	0.75 (1.9)	Analog: 40 - 400 Digital: 15 - 500	T_A +5°C to 80°C	35 (15.9)			**10 - 11**
16	6 x 2L	0.75 (1.9)	Analog: 40 - 400 Digital: 15 - 500	T_A +10°C to 60°C T_A +10°C to 80°C T_A -15°C to 60°C	50 (22.7)	●	●	**12 - 13**
24	4 x 6L	1.0 (2.54)	Analog: 40 - 400 Digital: 15 - 500	T_A +10°C to 60°C T_A -15°C to 60°C	75 (34)	●	●	**14 - 15**
16	2 x 6L	0.75 (1.9)	Digital: 15 - 500	T_A +10°C to 80°C T_A -15°C to 80°C	35 (15.9)	●		**16 - 17**
9	1 x 6L	0.5 (1.27)		T_A +5°C to 65°C T_A -5°C to 65°C	35 (15.9)		●	**22 - 23**

[2]Fixed reciprocating stroke length and orbital motion; [3]Adjustable reciprocating stroke length

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MaxQ Means Maximum Performance

You'll get unmatched power, accuracy, and reproducible results with Thermo Scientific MaxQ shakers –and more. In fact, once they're set up in your lab, you'll see how our long list of innovative product features translates to multiple benefits for your team, assuring you effectiveness, efficiency, and productivity.



Reliability

Our triple eccentric drive mechanism gives you continuous 24-hour operation and allows you to shake and stir large and uneven loads, smoothly and uniformly. Plus, it's guaranteed for life.



Ease of Use

Easy-to-use controls let you precisely adjust individual displays for temperature, speed and time. View all parameters simultaneously to prevent risk of error while establishing running conditions.



Flexibility

Bench-top, floor and stackable models are available, fully equipped with incubation, refrigeration and water bath options to accommodate many applications and budgets. Platforms come with numerous mounting holes to allow the addition and interchangeability of clamps that hold various sizes of Erlenmeyer flasks, beakers, microwell plates, test tube racks and separatory funnels.

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MaxQ 2000 shaker
Model No. SHKE2000

MaxQ 3000 shaker
Model No. SHKA3000

Thermo Scientific MaxQ 2000 & 3000
Open Air Platform Shakers

Choose from Several Platform Sizes to Increase Capacity by just Changing the Platform
- Choice of analog or digital operating system.
- Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
- Units operate in temperature ranges of 0°C to 40°C and humidity conditions from 20 to 80% non-condensing enables them to be used in incubators, warm rooms, environmental chambers and refrigerators.
- Five year warranty on parts, one year labor and *LIFETIME* on drive mechanism.

Analog Operating System
- Variable speed from 40 to 400 rpm, controlled by a rotary dial.
- Guaranteed accurate settings, with integrated tachometer that monitors and displays speed in rpm.
- Operate shaker in continuous mode or set time from 1 to 60 minutes.

Digital Operating System
- Variable speed control from 15 to 500 rpm.
- Continuous and timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes.
- Minimize errors by viewing speed and operating time simultaneously on two individual LED displays.
- Shaker shutdown and visual/audible alarms signal if unit operates ±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/audio 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 unit automatically after power is restored.
- RS232 interface allows remote monitoring of speed and time.

CO_2 Resistant Digital Operating System
Contains all of the features and benefits of the Digital Operating System plus:
- Electrical and mechanical components have been treated to protect them from up to 10% CO_2 and 90% humidity conditions non-condensing.
- This treatment prevents humidity and CO_2 from reacting with electrical components and forming carbolic acid.
- The shakers will not malfunction and can be used continuously in a direct heat or air jacketed CO_2 incubator.

Applications
- Cell culture
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing
- Bacterial suspensions
- Staining and destaining
- Washing procedures
- Hybridization

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Thermo Scientific MaxQ 2000 & 3000 with Universal Platforms and Clamps

ORDERING INFORMATION

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

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Overall Dimensions Inches (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 2000 – Small Open Air Shakers									
Analog	40-400	0.75 (1.9)	35 (15.9)	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	47 (21.3)	**SHKA2000**	**SHKA2000-1CE**
Digital	15-500 ±1	0.75 (1.9)	35 (15.9)	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	47 (21.3)	**SHKE2000**	**SHKE2000-1CE**
Digital, CO_2 Resistant	15-500 ±1	0.75 (1.9)	35 (15.9)	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	47 (21.3)	**SHKE2000CO2**	**SHKE2000CO2-1CE**
MaxQ 3000 – Large Open Air Shakers									
Analog	40-400	1.0 (2.54)	50 (22.7)	25.8 (65.5)	29.4 (74.4)	9.7 (24.6)	207 (93.9)	**SHKA3000**	**SHKA3000-1CE**
Digital	15-500 ±1	1.0 (2.54)	50 (22.7)	25.8 (65.5)	29.4 (74.4)	9.7 (24.6)	207 (93.9)	**SHKE3000**	**SHKE3000-1CE**

REQUIRED ACCESORIES

MaxQ 2000				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.	11 x 13" (28 x 33 cm)	Platform without Clamps	**30100**[1]
		11 x 13" (28 x 33 cm)	Dual Stacked Platform without Clamps	**30125**
		18 x 18" (45.7 x 45.7 cm)	Platform without Clamps	**30110**[1]
		18 x 18" (45.7 x 45.7 cm)	Dual Stacked Platform without Clamps	**30128**
		18 x 24" (45.7 x 60.9 cm)	Platform without Clamps	**30106**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 cm)	Platform with Clamps	See Dedicated Platforms on p. 7
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms on p. 7
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below
Misc. Accessories	Adapter set for stacking two platforms (Models 30100 and 30110 only)			**3522-3**
MaxQ 3000				**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.	30 x 18" (76 x 45.7 cm)	Platform without Clamps	**30115BI**
		30 x 18" (76 x 45.7 cm)	Dual Stacked Platform without Clamps	**30124**
		36 x 24" (91 x 61 cm)	Platform without Clamps	**30120BI**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	30 x 18" (76 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms on p. 7
		36 x 24" (91 x 61 cm)	Platform with Clamps	See Dedicated Platforms on p. 7
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

[1]Stackable, purchase of two platforms and stacking kit required

UNIVERSAL CLAMP GUIDE

Universal Platform Clamps
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp Capacity Guide
Maximum clamp capacity of vessels for the Universal Platform

Clamp	Model No.	MaxQ 2000 11 x 13" (28 x 33 cm)	MaxQ 2000 18 x 18" (45.7 x 45.7 cm)	MaxQ 2000 18 x 24" (45.7 x 60.9 cm)	MaxQ 3000 30 x 18" (76 x 45.7 cm)	MaxQ 3000 36 x 24" (91 x 61 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125ml flask clamps, (4) 250ml flask clamps, (4) 500ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	**30129**					
Microplate/Deep-well plate	**30175**	5	10	15	18	29
10 ml Erlenmeyer Flask	**30150BI**	60	113	157	112	160
25 ml Erlenmeyer Flask	**30151**	60	64	80	112	160
50 ml Erlenmeyer Flask	**30152BI**	30	32	40	112	160
125 ml Erlenmeyer Flask	**30153**	13	32	40	44	80
250 ml Erlenmeyer Flask	**30154BI**	9	16	24	24	40
300 ml Erlenmeyer Flask	**30155**	7	16	20	20	40
500 ml Erlenmeyer Flask	**30156BI**	6	16	20	18	40
1L Erlenmeyer Flask	**30157BI**	4	9	10	12	21
2L Erlenmeyer Flask	**30158**	1	6	5	6	11
4L Erlenmeyer Flask	**30159**	1	4	4	6	11
6L Erlenmeyer Flask	**30160**	1	2	3	3	6
2500 ml Low Form Culture Flask	**30161**	1	1	2	3	6
2800 ml Fernbach Flask	**30162**	1	4	4	6	8
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	**300349**[3]	–	–	–	–	–
Test Tube Racks – Full Size						
10-13 mm, red, 6 x 12 array	**30180BI**	3	6	8	13	16
14-16 mm, orange, 6 x 12 array	**30182**[1]	2	4	6	7	10
17-20 mm, white, 4 x 10 array	**30184**	3	5	6	9	14
21-25 mm, blue, 4 x 10 array	**30186**	2	3	4	7	7
26-30 mm, green, 3 x 8 array	**30188**[2]	2	4	6	7	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**30190**	2	5	6	8	10
Test Tube Racks – Half Size						
10-13 mm, red, 6 x 6 array	**30181**	6	12	15	21	25
14-16 mm, orange, 6 x 6 array	**30183**[1]	4	6	8	10	12
17-20 mm, white, 4 x 5 array	**30185**	4	8	13	18	20
21-25 mm, blue, 4 x 4 array	**30187**	4	6	9	10	15
26-30 mm, green, 3 x 3 array	**30189**[2]	6	9	12	15	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**30191**	4	8	10	14	20

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

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Dedicated Platforms with Clamps

ORDERING INFORMATION

MAXQ 2000 / MAXQ 2508/ MAXQ 2506

Clamps come installed to provide maximum capacity			
Platform Size		**Capacity**	**Model No.**
11 x 13"	10 ml Erlenmeyer Flask	60	**3523-1**
(28 x 33 cm)	25 ml Erlenmeyer Flask	30	**3523-2**
	50 ml Erlenmeyer Flask	30	**3523-3**
	125 ml Erlenmeyer Flask	15	**3523-4**
	250 ml Erlenmeyer Flask	10	**3523-5**
	500 ml Erlenmeyer Flask	6	**3523-7**
	1L Erlenmeyer Flask	4	**3523-8**
	2L Erlenmeyer Flask	4	**3523-9**
	Separatory Funnel (500 ml to 2L)	2	**3523-39**
	Utility Tray	–	**3523-46**
	11 x 13" Adjustable Vessel Platform	–	**3523-49**
	18 x 18" Adjustable Vessel Platform	–	**3523-52**
	5 Tier, holds platelet bags (10 x 10")	5 bags	**3523-51**
18 x 18"	10 ml Erlenmeyer Flask	113	**3524-1**
(45.7 x 45.7 cm)	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**
	Separatory Funnel (500 ml to 2L)	3	**3524-49**
	Utility Tray	–	**3524-46**
	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
Model No. 3523-46



11 x 13" Adjustable Vessel Platform
Model No. 3523-49



50 ml Erlenmeyer Flask Platform
Model No. 3524-3



MAXQ 3000

Clamps come installed to provide maximum capacity			
Platform Size		**Capacity**	**Model No.**
30 x 18"	10 ml Erlenmeyer Flask	112	**3599-1**
(76 x 45.7 cm)	25 ml Erlenmeyer Flask	112	**3599-2**
	50 ml Erlenmeyer Flask	112	**3599-3**
	125 ml Erlenmeyer Flask	56	**3599-4**
	250 ml Erlenmeyer Flask	40	**3599-5**
	300 ml Erlenmeyer Flask	24	**3599-6**
	500 ml Erlenmeyer Flask	24	**3599-7**
	1L Erlenmeyer Flask	12	**3599-8**
	2L Erlenmeyer Flask	12	**3599-9**
	4L Erlenmeyer Flask	6	**3599-10**
	6L Erlenmeyer Flask	4	**3599-11**
	Separatory Funnel (500 ml to 2L)	10	**3599-49**
	Utility Tray	–	**3599-46**
	18 x 30" Adjustable Vessel Platform	–	**3599-63**
	2500 ml Low Form Culture Flask	5	**3599-12**
	2800 ml Fernbach Flask	6	**3599-13**
36 x 24"	50 ml Erlenmeyer Flask	160	**3599-52**
(91 x 61 cm)	125 ml Erlenmeyer Flask	80	**3599-53**
	250 ml Erlenmeyer Flask	70	**3599-54**
	500 ml Erlenmeyer Flask	40	**3599-56**
	1L Erlenmeyer Flask	18	**3599-57**
	2L Erlenmeyer Flask	15	**3599-58**
	4L Erlenmeyer Flask	8	**3599-59**
	6L Erlenmeyer Flask	6	**3599-60**
	Separatory Funnel (500 ml to 2L)	16	**3599-96**
	2500 ml Low Form Culture Flask	6	**3599-61**
	2800 ml Fernbach Flask	8	**3599-62**

Dedicated Separatory Funnel Platform
Model No. 3524-39



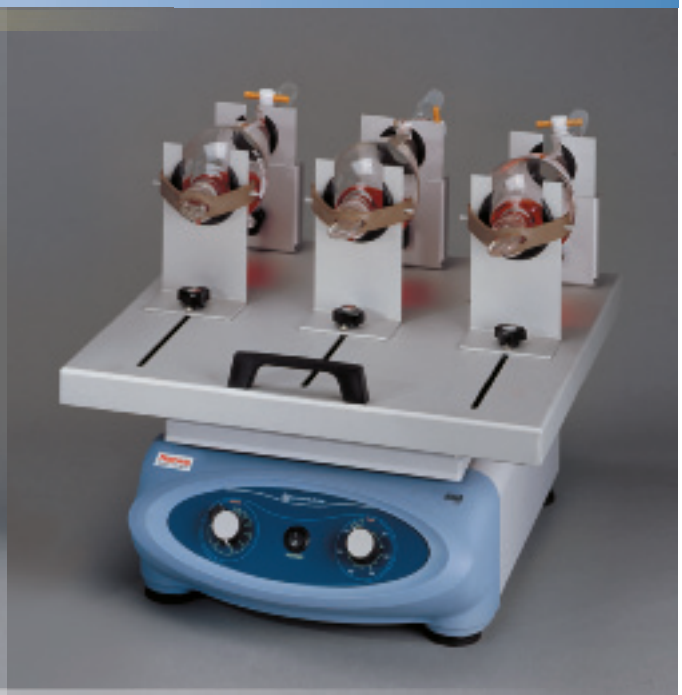
30 x 18" Dual Tiered Platforms,
Model No. 30124
(See Accessories table on page 6.)



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MaxQ 2508 shaker
Model No. SHKA2508



MaxQ 2506 shaker
*Model No. SHKA2506**

Thermo Scientific Dual Action Orbital and Reciprocating Shakers

Choose Between Single Action Reciprocating or Dual Action Orbital/Reciprocating Shakers

Chose Reciprocating or Orbital Shaking for Increased Flexibility

- Choice of three platforms increases capacity.
- Affordably priced.
- Variable speed control.
- Built-in timer for repeatable results.
- 24-month warranty.

Dual-Action Orbital/Reciprocating Features

- Ideal for growing bacteria, dissolution studies, staining of electrophoresis gels and extractions.
- Provides "back-and-forth" motion or circular orbital motion for versatility to cover a wide range of applications.
  > Fixed reciprocating stroke length of 0.4 in. (1.2 cm).
  > Fixed circular orbit of 0.4 in. (1.2 cm).

Reciprocating Features

- Ideal for extractions, mixing blood samples and silver staining of polyacrylamide gels.
- Provides "back-and-forth" motion with an adjustable stroke length of 0.5 to 1.5 in. (1.2 to 3.8 cm).

Operation

- Operates in temperature ranges of 4 to 40°C and humidity conditions of 20 to 80% non-condensing, enabling them to be used in incubators, warm rooms, environmental chambers and refrigerators.
- Interchangeable 11 x 13 in. (27.9 x 33 cm); 18 x 18 in. (45.7 x 45.7 cm) or 18 x 24 in. (45.7 x 60.1 cm) shaking platforms are available to accommodate a variety of labware. (See Accessories.)
- On dual-action models, control lever changes shaking motion while unit is stationary or in operation.

Analog Operating System

- Variable speed control from 40 to 400 rpm (for dual action) and from 10 to 250 rpm (for reciprocating).
- Operate in continuous mode or set timer from 1 to 60 min.
- Metal-locking tab on the speed-control knob prevents speed from increasing or decreasing if control knob is mistakenly bumped.
- Load capacity is 15 lb. (6.8 kg).

Tiered Blood Bag Platform

- A five-tier aluminum platform assembly measuring 13L x 11W x 14H in. (33 x 27.9 x 35.6 cm).
- Distance between platforms is 3.25 in. (8.26 cm.)
- Each of the five platforms is equipped with a white ribbed vinyl mat.
- Mix contents of 10 x 10 in (25.4 x 25.4 cm) bags of platelets used in platelet phoresis applications.

**MaxQ 2506 is not CE certified*

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Thermo Scientific Dual-Action Orbital and Reciprocating Shakers

ORDERING INFORMATION

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

Shaker Options	Speed Range (rpm)	Orbit Diameter Inch (cm)	Max. Load Lb. (kg)	Overall Dimensions Inches (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 2508 – Dual Action Orbital and Reciprocating Shakers									
Analog	40-400	0.4 (1.2)	15 (6.8)	17.4 (44.2)	13.5 (34.3)	7 (17.8)	38 (17.2)	**SHKA2508**	**SHKA2508-1CE**
MaxQ 2506 – Reciprocating Shakers									
Analog	10-250	Adjustable from 0.5 to 1.5 (1.2 to 3.8)	15 (6.8)	17.4 (44.2)	13.5 (34.3)	7 (17.8)	27 (12.3)	**SHKA2506**	**SHKA2506-1**

REQUIRED ACCESORIES

MaxQ 2508 and 2506 Series				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.	11 x 13" (28 x 33 cm)	Platform without Clamps	**30100**[1]
		11 x 13" (28 x 33 cm)	Dual Stacked Platform without Clamps	**30125**
		18 x 18" (45.7 x 45.7 cm)	Platform without Clamps	**30110**[1]
		18 x 18" (45.7 x 45.7 cm)	Dual Stacked Platform without Clamps	**30128**
		18 x 24" (45.7 x 60.9 cm)	Platform without Clamps	**30106**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 cm)	Platform with Clamps	See Dedicated Platforms on p. 7
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms on p. 7
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

[1]Stackable

UNIVERSAL CLAMP GUIDE

Universal Platform Clamps Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.		**Clamp Capacity Guide** Max. clamp capacity of vessels for the Universal Platform		
		MaxQ 2508 and 2506		
Clamp	**Model No.**	**11 x 13" (28 x 33 cm)**	**18 x 18" (45.7 x 45.7 cm)**	**18 x 24" (45.7 x 60.9 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**	5	10	15
10 ml Erlenmeyer Flask	**30150BI**	60	113	157
25 ml Erlenmeyer Flask	**30151**	60	64	80
50 ml Erlenmeyer Flask	**30152BI**	30	32	40
125 ml Erlenmeyer Flask	**30153**	13	32	40
250 ml Erlenmeyer Flask	**30154BI**	9	16	24
300 ml Erlenmeyer Flask	**30155**	7	16	20
500 ml Erlenmeyer Flask	**30156BI**	6	16	20
1L Erlenmeyer Flask	**30157BI**	4	9	10
2L Erlenmeyer Flask	**30158**	1	6	5
4L Erlenmeyer Flask	**30159**	1	4	4
6L Erlenmeyer Flask	**30160**	1	2	3
2500 ml Low Form Culture Flask	**30161**	1	1	2
2800 ml Fernbach Flask	**30162**	1	4	4
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	**300349**[3]	–	–	–
Test Tube Racks – Full Size				
10-13 mm, red, 6 x 12 array	**30180BI**	3	6	8
14-16 mm, orange, 6 x 12 array	**30182**[1]	2	4	6
17-20 mm, white, 4 x 10 array	**30184**	3	5	6
21-25 mm, blue, 4 x 10 array	**30186**	2	3	4
26-30 mm, green, 3 x 8 array	**30188**[2]	2	4	6
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**30190**	2	5	6
Test Tube Racks – Half Size				
10-13 mm, red, 6 x 6 array	**30181**	6	12	15
14-16 mm, orange, 6 x 6 array	**30183**[1]	4	6	8
17-20 mm, white, 4 x 5 array	**30185**	4	8	13
21-25 mm, blue, 4 x 4 array	**30187**	4	6	9
26-30 mm, green, 3 x 3 array	**30189**[2]	6	9	12
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**30191**	4	8	10

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

MISCELLANEOUS ACCESSORIES

MaxQ 2508 and 2506 Series	Model No.
Adapter Set for stacking two platforms (Models 30100 and 30110 only)	**3522-3**



Five-Tier Blood Bag Platform
Model No. 3523-51

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MaxQ 4450 shaker
Model No. SHKE4450

Thermo Scientific MaxQ 4450
Compact Benchtop Incubated Shakers

Combines Incubated/Refrigerated Temperatures with Orbital Shaker in a Small Footprint
- Holds up to four one liter flasks.
- Requires minimal bench space.
- Choose between two temperature ranges, 5°C above ambient to 80°C or 5°C below ambient to 80°C.
- Clear lid lets you view samples without disturbing internal temperature
- Affordably priced
- Five year warranty on parts, one year labor and *LIFETIME* on drive mechanism

Models Available with Integrated Cooling Coils for Plasmid Purification and Protein Expression in Bacteria
- Achieve temperature ranges from 20°C to 30°C when connected to a circulating chiller.
- Provides a refrigerated atmosphere.

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 ±0.1°C accuracy and ±0.5°C uniformity 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 ±1°C of set point.
- Shaker shuts down and visual/audible alarms signal if unit operates ±10% of set speed, preventing shaker from walking.
- Soft start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure.
- Retains parameters during power failure and restarts unit 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 in bacteria

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ORDERING INFORMATION

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) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 4450 – Incubated Shaker										
Analog	40-400	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C ±0.1°C at 37°C in flask	27.2 (69.1)	14.1 (35.8)	15.8 (40.1)	77 (35)	**SHKA4450**	**SHKA4450-1CE**
Digital	15-500 ±1	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C ±0.1°C at 37°C in flask	27.2 (69.1)	14.1 (35.8)	15.8 (40.1)	77 (35)	**SHKE4450**	**SHKE4450-1CE**
MaxQ 4450 – Incubated Shaker with Cooling Coil (Requires Chiller)										
Analog	40-400	0.75 (1.9)	35 (15.9)	5°C below ambient to 80°C ±0.1°C at 37°C in flask	27.2 (69.1)	14.1 (35.8)	15.8 (40.1)	77 (35)	**SHKA4450CC**	**SHKA4450CC-1CE**
Digital	15-500 ±1	0.75 (1.9)	35 (15.9)	5°C below ambient to 80°C ±0.1°C at 37°C in flask	27.2 (69.1)	14.1 (35.8)	15.8 (40.1)	77 (35)	**SHKE4450CC**	**SHKE4450CC-1CE**

REQUIRED ACCESORIES

MaxQ 4450				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.	11 x 13" (28 x 33 cm)	Platform without Clamps	**30100**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 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 Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.		**Clamp Capacity Guide** Max. clamp capacity of vessels for the Universal Platform
Clamp	**Model No.**	**MaxQ 4450 11 x 13" (28 x 33 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**	5
10 ml Erlenmeyer Flask	**30150BI**	60
25 ml Erlenmeyer Flask	**30151**	60
50 ml Erlenmeyer Flask	**30152BI**	30
125 ml Erlenmeyer Flask	**30153**	13
250 ml Erlenmeyer Flask	**30154BI**	9
300 ml Erlenmeyer Flask	**30155**	7
500 ml Erlenmeyer Flask	**30156BI**	6
1L Erlenmeyer Flask	**30157BI**	4
2500 ml Low Form Culture Flask	**30161**	1
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	**300349**[3]	–
Test Tube Racks – Full Size		
10-13 mm, red, 6 x 12 array	**30180BI**	3
14-16 mm, orange, 6 x 12 array	**30182**[1]	2
17-20 mm, white, 4 x 10 array	**30184**	3
21-25 mm, blue, 4 x 10 array	**30186**	2
26-30 mm, green, 3 x 8 array	**30188**[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**30190**	2
Test Tube Racks – Half Size		
10-13 mm, red, 6 x 6 array	**30181**	6
14-16 mm, orange, 6 x 6 array	**30183**[1]	4
17-20 mm, white, 4 x 5 array	**30185**	4
21-25 mm, blue, 4 x 4 array	**30187**	4
26-30 mm, green, 3 x 3 array	**30189**[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**30191**	4

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

DEDICATED PLATFORMS WITH CLAMPS

Clamps come installed to provide maximum capacity

Platform Size	Description	Capacity	Model No.
11 x 13" (28 x 33 cm)	10 ml Erlenmeyer Flask	60	**3523-1**
	25 ml Erlenmeyer Flask	30	**3523-2**
	50 ml Erlenmeyer Flask	30	**3523-3**
	125 ml Erlenmeyer Flask	15	**3523-4**
	250 ml Erlenmeyer Flask	10	**3523-5**
	500 ml Erlenmeyer Flask	6	**3523-7**
	1L Erlenmeyer Flask	4	**3523-8**

MISCELLANEOUS ACCESSORIES

MaxQ 4450	Model No.
Upright chiller, 6L reservoir, required to achieve temperatures from 20°C to 30°C, 120V	**SHK4450CH**
Upright chiller, 6L reservoir, required to achieve temperatures from 20°C to 30°C, 240V	**SHK4450CH-1CE**



Unwire test tube rack clamps

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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 ±0.1°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 ±1°C of set point.
- Shaker shuts down and visual/audible alarms signal if unit operates ±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

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ORDERING INFORMATION

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) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
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 ACCESORIES

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 Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp Capacity Guide 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

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

DEDICATED PLATFORMS WITH CLAMPS

Clamps come installed to provide maximum capacity

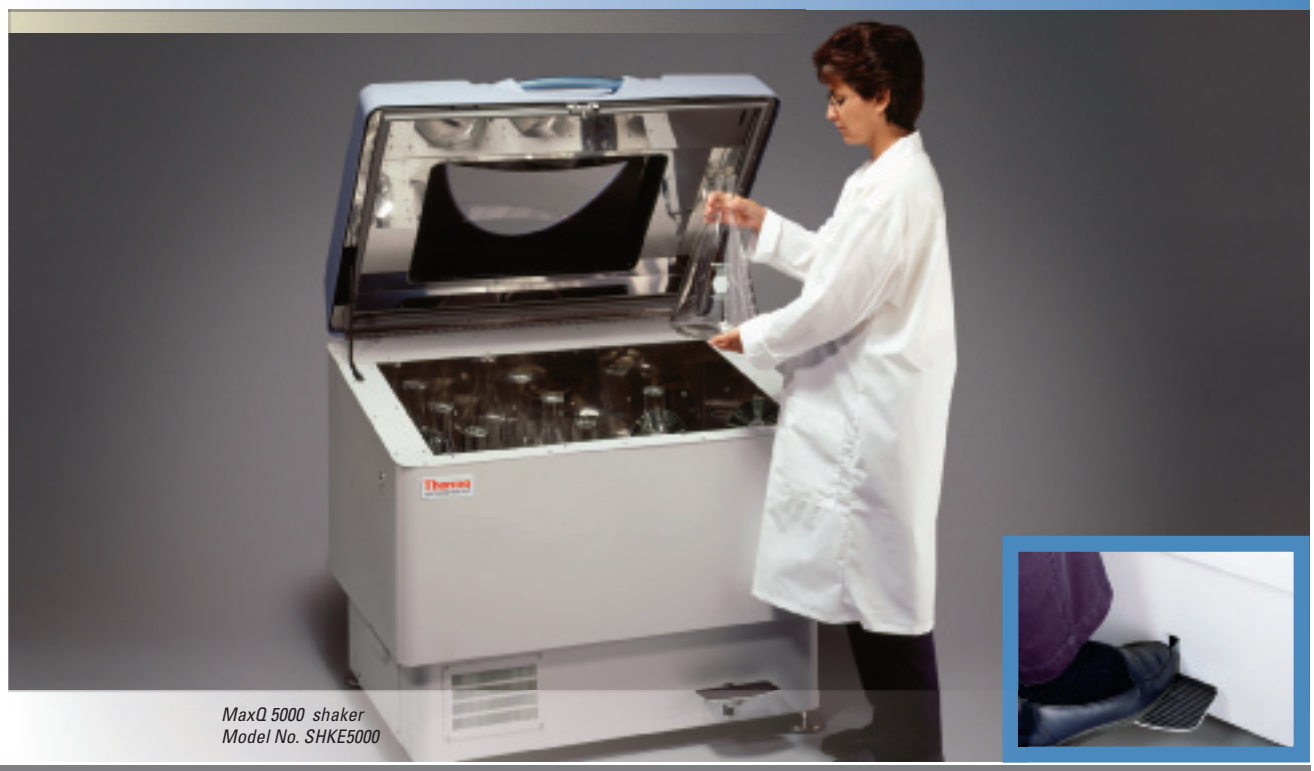
Platform Size	Description	Capacity	Model No.
18 x 18" (45.7 x 45.7 cm)	10 ml Erlenmeyer Flask	113	**3524-1**
	25 ml Erlenmeyer Flask	64	**3524-2**
	50 ml Erlenmeyer Flask	64	**3524-3**
	125 ml Erlenmeyer Flask	32	**3524-4**
	250 ml Erlenmeyer Flask	25	**3524-5**
	300 ml Erlenmeyer Flask	16	**3524-6**
	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	–	**3524-46**
	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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MaxQ 5000 shaker
Model No. SHKE5000

Using the built-in foot pedal, you can open the door to transfer vessels, hands free.

Thermo Scientific MaxQ 5000
Incubated and Refrigerated Floor Shakers

Combines Incubated/Refrigerated Temperatures with an Orbital Shaker for Large Capacity Applications

- Choice of analog or digital operating systems
- Spacious chamber holds four 6L flasks
- Wide temperature range, 10°C above ambient to 60°C on incubated models and 15°C below ambient to 60°C on refrigerated models
- Easy-access drain system with quick disconnect fitting permits easy clean up of spills
- Drip pan under platform contains spills
- Foot pedal opens lid for hands free operation
- Retractable foot casters allow easy positioning in the lab
- Observe flask contents without opening the door through a large viewing window
- Access ports for probes, thermocouples or sensors provided through side of cabinet wall
- Five year warranty on parts, one year labor and *LIFETIME* on drive 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 ±0.1°C accuracy at 37°C.

Analog Operating Systems

- 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.
- Operates in continuous mode or set timer from 1 to 60 min.

Digital Operating Systems

- 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 ±1°C of set point.
- Shaker shuts down and visual/audible alarms signal if unit operates ±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/audio 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 unit automatically after power is restored.

Safety

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

Applications

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

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ORDERING INFORMATION

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) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 5000 – Large Incubated Floor Shaker										
Analog	40-400	1.0 (2.54)	75 (34)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	476 (215.9)	**SHKA5000**	**SHKA5000-1CE**
Digital	15-500 ±1	1.0 (2.54)	75 (34)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	32 (81.3)	41 (104.1)	41 (104.1)	476 (215.9)	**SHKE5000**	**SHKE5000-1CE**
MaxQ 5000 – Large Incubated and Refrigerated Floor Shaker										
Analog	40-400	1.0 (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)	512 (232.2)	**SHKA5000-7**	**SHKA5000-8CE**
Digital	15-500 ±1	1.0 (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)	512 (232.2)	**SHKE5000-7**	**SHKE5000-8CE**

REQUIRED ACCESORIES

MaxQ 5000				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.	30 x 18" (76 x 45.7 cm)	Platform without Clamps	**30115BI**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	30 x 18" (76 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 Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform

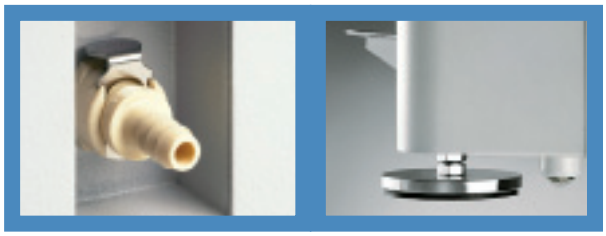
Clamp	Model No.	MaxQ 5000 30 x 18" (76 x 45.7 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	**30129**	
Microplate/Deep-well plate	**30175**	18
10 ml Erlenmeyer Flask	**30150BI**	112
25 ml Erlenmeyer Flask	**30151**	112
50 ml Erlenmeyer Flask	**30152BI**	112
125 ml Erlenmeyer Flask	**30153**	44
250 ml Erlenmeyer Flask	**30154BI**	24
300 ml Erlenmeyer Flask	**30155**	20
500 ml Erlenmeyer Flask	**30156BI**	18
1L Erlenmeyer Flask	**30157BI**	12
2L Erlenmeyer Flask	**30158**	6
4L Erlenmeyer Flask	**30159**	6
6L Erlenmeyer Flask	**30160**	3
2500 ml Low Form Culture Flask	**30161**	3
2800 ml Fernbach Flask	**30162**	5
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	**300349**[3]	–
Test Tube Racks – Full Size		
10-13 mm, red, 6 x 12 array	**30180BI**	13
14-16 mm, orange, 6 x 12 array	**30182**[1]	7
17-20 mm, white, 4 x 10 array	**30184**	9
21-25 mm, blue, 4 x 10 array	**30186**	7
26-30 mm, green, 3 x 8 array	**30188**[2]	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**30190**	8
Test Tube Racks – Half Size		
10-13 mm, red, 6 x 6 array	**30181**	21
14-16 mm, orange, 6 x 6 array	**30183**[1]	10
17-20 mm, white, 4 x 5 array	**30185**	18
21-25 mm, blue, 4 x 4 array	**30187**	10
26-30 mm, green, 3 x 3 array	**30189**[2]	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**30191**	14

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

MISCELLANEOUS ACCESSORIES

MaxQ 5000	Model No.
Stainless steel shelf for chamber – L x W 33.25 x 4.0" (84.5 x 10.2 cm)	**SHK5000-6**
Gassing manifold with 8 outlets (factory installed)	**SHK5000-8GM**
Gassing manifold with 16 outlets (factory installed)	**SHK5000-16GM**

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



Easy-access drain system offers convenience in draining and disinfecting the system.

Retractable foot casters allow easy manipulation in lab.

DEDICATED PLATFORMS WITH CLAMPS

Clamps come installed to provide maximum capacity

Platform Size		Capacity	Model No.
30 x 18" (76.2 x 45.7 cm)	10 ml Erlenmeyer Flask	112	**3599-1**
	25 ml Erlenmeyer Flask	112	**3599-2**
	50 ml Erlenmeyer Flask	112	**3599-3**
	125 ml Erlenmeyer Flask	56	**3599-4**
	250 ml Erlenmeyer Flask	40	**3599-5**
	300 ml Erlenmeyer Flask	24	**3599-6**
	500 ml Erlenmeyer Flask	24	**3599-7**
	1L Erlenmeyer Flask	12	**3599-8**
	2L Erlenmeyer Flask	12	**3599-9**
	4L Erlenmeyer Flask	6	**3599-10**
	6L Erlenmeyer Flask	4	**3599-11**
	2500 ml Low Form Culture Flask	5	**3599-12**
	2800 ml Fernbach Flask	6	**3599-13**
	Utility Tray	–	**3599-46**
	Adjustable Vessel Platform	–	**3599-63**

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MaxQ 6000 shaker
Model No. SHKE6000

Thermo Scientific MaxQ 6000

Incubated and Refrigerated Stackable Shakers

Combines Orbital Shaking with General Purpose Incubation for Added Versatility

- Available in incubated or refrigerated models.
- Units can be stacked two high on the floor with the stacking kit accessory.
- Two adjustable-height shelves provide added storage.
- Large viewing window and internal light offer sample visibility.
- View temperature, speed and time simultaneously on three individual displays.
- Door can be hinged from the right or left by the user for convenient placement in lab.
- Five year warranty on parts, one year labor and *LIFETIME* on mechanism.

Product Description

- Choose between two temperature ranges.
- Corrosion-resistant stainless-steel chamber accommodates a variety of 18 x 18 in. (45.7 x 45.7 cm) universal and dedicated platforms.
- Durable powder-coated, cold-rolled steel exterior construction.
- Electrical outlet inside chamber provides power for safe operation of shakers, stirrers or rotators.

Digital Operating System

- Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
- Monitor and control chamber temperature over complete range with ±0.1°C accuracy at 37°C.
- 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 ±1°C of set point.
- Shaker shut down and visual/audible alarms signal if unit operates ±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 visual/audio 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 unit 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 shaking motion when the door is open.

Applications

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

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ORDERING INFORMATION

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	Temperature Uniformity	Overall Dimensions Inches (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V	Model No. 240V
MaxQ 6000 – Large Stackable Incubated Floor Shaker											
Digital	15-500 ±1 (unstacked) 15-300 ±1 (stacked)	0.75 (1.9)	35 (15.9)	10°C above ambient to 80°C, ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	33 (83.8)	27 (69.9)	40.5 (102.9)	330 (150)	**SHKE6000** (60 Hz)	**SHKE6000-1CE** (50/60 Hz)
MaxQ 6000 – Large Stackable Incubated and Refrigerated Floor Shaker											
Digital	15-500 ±1 (unstacked) 15-300 ±1 (stacked)	0.75 (1.9)	35 (15.9)	15°C below ambient to 80°C, ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	33 (83.8)	27 (69.9)	40.5 (102.9)	430 (195)	**SHKE6000-7** (60 Hz)	**SHKE6000-8CE** (50 Hz)

REQUIRED ACCESORIES

MaxQ 6000				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**
		18 x 18" (45.7 x 45.7 cm)	Dual Stacked Platform without Clamps	**30128**
	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 Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform

Clamp	Model No.	MaxQ 6000 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
4L Erlenmeyer Flask	**30159**	4
6L Erlenmeyer Flask	**30160**	2
2500 ml Low Form Culture Flask	**30161**	1
2800 ml Fernbach Flask	**30162**	4
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	**300349**[3]	–
Test Tube Rack – 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

[1]Fits 15 ml centrifuge tubes [2]Fits 50 ml centrifuges tubes [3]Can 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	–	**3524-46**

OPTIONAL ACCESSORIES

MaxQ 6000	Model No.
Stacking Kit for additional MaxQ 6000 shaker	**SHK6000-10**
Adapter set for stacking two platforms	**3522-3**
Seismic Restraint	**SHK6000-20**

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MaxQ 7000 shaker
Model No. SHKE7000

Thermo Scientific MaxQ 7000
Water Bath Shakers

Provides Excellent Temperature Uniformity with Front Access Drain System
- Easy access drain with quick disconnect located in the front of the cabinet for convenience in draining and disinfecting
- Alarm alerts operator in case of low water level.
- Temperature range of 5°C above ambient to 65°C.
- Prevent heat loss and minimize evaporation with use of optional covers.
- Minimize splashing and turbulence in chamber with twin baffles even at high speeds.
- Optional cooling coil extends the range of applications to near and below ambient.
- Five year warranty on parts, one year labor and *LIFETIME* on drive mechanism.

Operation
- Triple eccentric drive that handles heavy loads, provides uniform agitation and enables continuous 24-hour operation, even at high speeds.
- Monitored and controlled temperature with accuracy of ±0.2°C at 37°C in flask.

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 and timed operation from 0.1 hour up 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 and low water levels. Heat turns off if temperature deviates ±1°C of setpoint.
- Shaker shutdown and visual/audible alarms signal if unit operates ±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/audio 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.

Applications
- Cell culture
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing
- Bacterial suspensions
- Staining and destaining
- Washing procedures
- Hybridization

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ORDERING INFORMATION

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) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 7000 – Water Bath Shaker										
Analog	40-400	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C ±0.2°C at 37°C in flask	25 (63.5)	21.5 (54.6)	18 (45.7)	107 (48.5)	**SHKA7000**	**SHKA7000-1CE**
Digital	15-500 ±1	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C ±0.2°C at 37°C in flask	25 (63.5)	21.5 (54.6)	18 (45.7)	107 (48.5)	**SHKE7000**	**SHKE7000-1CE**

REQUIRED ACCESORIES

MaxQ 7000				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.	11 x 13" (28 x 33 cm)	Platform without Clamps	**30105**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 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 Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.		**Clamp Capacity Guide** Max. clamp capacity of vessels for the Universal Platform
Clamp	**Model No.**	**MaxQ 7000 11 x 13" (28 x 33 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**	5
10 ml Erlenmeyer Flask	**30150BI**	60
25 ml Erlenmeyer Flask	**30151**	60
50 ml Erlenmeyer Flask	**30152BI**	30
125 ml Erlenmeyer Flask	**30153**	13
250 ml Erlenmeyer Flask	**30154BI**	9
300 ml Erlenmeyer Flask	**30155**	7
500 ml Erlenmeyer Flask	**30156BI**	6
1L Erlenmeyer Flask	**30157BI**	4
2L Erlenmeyer Flask	**30158**	1
4L Erlenmeyer Flask	**30159**	1
6L Erlenmeyer Flask	**30160**	1
2500 ml Low Form Culture Flask	**30161**	1
2800 ml Fernbach Flask	**30162**	1
Test Tube Racks – Full Size		
10-13 mm, red, 6 x 12 array	**30180BI**	3
14-16 mm, orange, 6 x 12 array	**30182**[1]	2
17-20 mm, white, 4 x 10 array	**30184**	3
21-25 mm, blue, 4 x 10 array	**30186**	2
26-30 mm, green, 3 x 8 array	**30188**[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**30190**	2
Test Tube Racks – Half Size		
10-13 mm, red, 6 x 6 array	**30181**	6
14-16 mm, orange, 6 x 6 array	**30183**[1]	4
17-20 mm, white, 4 x 5 array	**30185**	4
21-25 mm, blue, 4 x 4 array	**30187**	4
26-30 mm, green, 3 x 3 array	**30189**[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**30191**	4

[1]Fits 15 ml centrifuge tubes. [2]Fits 50 ml centrifuges tubes

DEDICATED PLATFORMS WITH CLAMPS

Clamps come installed to provide maximum capacity

Platform Size	Description	Capacity	Model No.
11 x 13" (28 x 33 cm)	10 ml Erlenmeyer Flask	63	**3540-1**
	25 ml Erlenmeyer Flask	32	**3540-2**
	50 ml Erlenmeyer Flask	32	**3540-3**
	125 ml Erlenmeyer Flask	16	**3540-4**
	250 ml Erlenmeyer Flask	9	**3540-5**
	300 ml Erlenmeyer Flask	8	**3540-6**
	500 ml Erlenmeyer Flask	6	**3540-7**
	1L Erlenmeyer Flask	4	**3540-8**
	2L Erlenmeyer Flask	2	**3540-9**
	10 ml Beaker	76	**3540-35**
	20 ml Beaker	52	**3540-36**
	30 ml Beaker	52	**3540-37**
	100 ml Beaker	22	**3540-38**
	Utility Tray	–	**3540-46**
	Basket Platform with Retainer Springs	–	**3540-49**

OPTIONAL ACCESSORIES

	Model No.
Cooling Coil Needed for near-ambient temperature and below	**SHK7000-37**[3]
Gable Cover Stainless-steel gable cover for temperatures up to 90°C Plexiglas® gable cover for temperatures up to 65°C	**SHK7000-30** **SHK7000-32**
Auxiliary Platform Suspension Arms Used for rapid platform changes	**SHK7000-40**
Movable Dolly For under lab bench operation	**SHK7000-45**
Mobile Cart	**SHK7000-48**

[3]This accessory requires a circulating chiller

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