Thermo Scientific MaxQ Shakers

Reliability. Simplicity.

Flexibility.

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Thermo Scientific MaxQ Shaker Product

MaxQ™ Orbital Shakers

Model		Benchtop (B), Floor (F) or Stackable (S)	Motion	Platform Size Inches (cm)	250 ml Flask Capacity Dedicated* Platform	250 ml Flask Capacity Universal* Platform
MaxQ 2000 Increased capacity, small footprint		B	Orbital	13 x 11 (33 x 28)	12	9
				18 x 18 (45.7 x 45.7)	25	16
				24 x 18 (60.9 x 45.7)[1]	N/A	24
MaxQ 3000 Increased capacity, small footprint		F	Orbital	30 x 18 (76 x 45.7)	40	24
				36 x 24 (91 x 60.9)	70	40
MaxQ 2506/2508 Flexibility and choice		B	2508: orbital/ reciprocating	13 x 11 (33 x 28)	10	9
				18 x 18 (45.7 x 45.7)	25	16
			2506: reciprocating	24 x 18 (60.9 x 45.7)	24	24
MaxQ 4450 Flexible, affordable		B	Orbital	13 x 11 (33 x 28)	10	9
MaxQ 4000 Spacious chamber, small footprint		B	Orbital	18 x 18 (45.7 x 45.7)	25	16
MaxQ 5000 Large capacity applications		F	Orbital	30 x 18 (76 x 45.7)	40	24
MaxQ 6000 Stackable, space-savings		S	Orbital	18 x 18 (45.7 x 45.7)	25	16
MaxQ 8000 Maximum flexibility, stackable design		S	Orbital	29.5 x 18 (74.9 x 45.7)	30	30
MaxQ 7000 Excellent temp. uniformity		B	Orbital	13 x 11 (33 x 28)	9	9

*See following pages 6–7 for a complete description of platform types. [1]Universal platform only; [2]Fixed reciprocating stroke length and orbital motion; [3]Adjustable reciprocating stroke length

MaxQ High-Performance Shakers

Model		Benchtop (B), Floor (F)	Motion	Platform Size Inches (cm)	250 ml Flask Capacity Dedicated* Platform	250 ml Flask Capacity Universal* Platform
MaxQ 416 HP Maximum capacity with platform options		B	Orbital	18 x 18 (45.7 x 45.7)	25	18
				24 x 18 (60.9 x 45.7)	35	25
MaxQ 430 HP Maximum capacity with platform options		F	Orbital	29.5 x 18 (74.9 x 45.7)	40	30
				36 x 24 (91.4 x 60.9)	70	55
MaxQ 420 HP Large benchtop, optimum growth		B	Orbital	18 x 18 (45.7 x 45.7)	25	18
MaxQ 435 (436) HP High capacity **MaxQ 480R (481R) HP** High capacity		F	Orbital	29.5 x 18 (74.9 x 45.7)	40	30

*See following pages 6–7 for a complete description of platform types.

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Selector Guide

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
1 x 6L 2 x 6L 3 x 6L	0.75 (1.9)	Analog: 40–400 Digital: 15–500	N/A	35 (15.9)			9–11
3 x 6L 6 x 6L	1.0 (2.54)	Analog: 40–400 Digital: 15–500	N/A	50 (22.7)			9–11
1 x 6L 2 x 6L 3 x 6L	2508: 0.4 (1.2)[2] 2506: 0.5 to 1.5 (1.2 to 3.8)[3]	2508 Analog: 40–400 2506 Analog: 10–250	N/A	15 (6.8)			12–13
4 x 1L	0.75 (1.9)	Analog: 40–400 Digital: 15–500	T_A +5°C to 80°C	35 (15.9)			14–15
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)	●	●	16–17
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)	●	●	18–19
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)	●		20–21
12 x 2L	1.0 (2.54)	Digital: 25–400	T_A +10°C to 60°C T_A -15°C to 60°C	35.5 (16.1)	●		22–25
1 x 6L	0.5 (1.27)	Analog: 40–400 Digital: 15–500	T_A +5°C to 65°C T_A -5°C to 65°C	35 (15.9)			26–27

Maximum Capacity Largest Flask on a Platform	Orbit Diameter Inches (cm)	RPM Range	Temperature Range °C (T_A=Ambient Temperature)	Maximum Load Lb. (kg)	Refrigeration	Incubation	Page
2 x 6L 4 x 6L	1.0 (2.54)	25–525	N/A	71 (32)			30–31
4 x 6L 8 x 6L	1.0 (2.54)	25–525	N/A	71 (32)			30–31
6 x 2L	1.0 (2.54)	25–525	5°C above ambient to 80°C	71 (32)		●	32–33
4 x 6L	1.0 (2.54)	25–525	5°C above ambient to 60°C 4°C to 60°C	71 (32)	 ●	●	34–35

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Trust your samples to a proven, reliable product

You invest a lot into the preparation of your samples from growing cultures that express proteins to staining your gels for visualization and much more. Only Thermo Scientific MaxQ shakers deliver outstanding performance, accuracy and reproducible results year after year.

Our cutting-edge orbital shaker designs provide reliable around-the-clock operation ideally suited to keep your cells alive and flourishing within your working environment. Delivering reliability, simplicity and flexibility, our orbital shakers are easy to operate, offer a wide range of options that can grow with you, and will be a partner in your lab for many years — allowing you to spend more time pursuing your objectives and less time managing your shakers.

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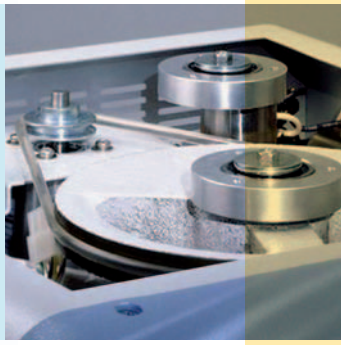
Reliability

Our outstanding drive mechanisms provide continuous 24-hour operation and allow you to shake and stir large and uneven loads, smoothly and uniformly. These innovative designs are available on all Thermo Scientific orbital shakers and both designs come with a lifetime guarantee on drive mechanisms.

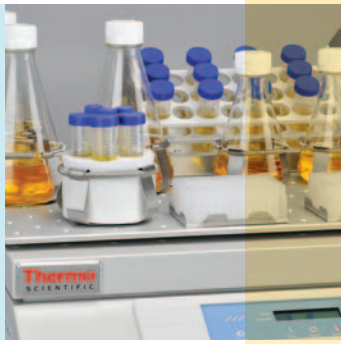


Simplicity

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

Benchtop, floor and stackable models are available fully equipped with incubation, refrigeration and water bath options to accommodate any application and budget. Customizable solutions allow you to choose your platform for maximum flexibility and capacity. Platforms allow the addition and interchangeability of clamps that hold various sizes of Thermo Scientific Nalgene Erlenmeyer flasks, beakers, test tube racks and separatory funnels and Thermo Scientific Nunc microwell plates.



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With a wide range of shaker options including analog or digital, incubated or refrigerated and benchtop or floor model, we make it easy to choose the right shaker solution for your laboratory.

Thermo Scientific
MaxQ Analog Shakers

If your lab is analog and you intend you keep it that way, our MaxQ analog shakers are offered at an economical price and include a triple eccentric drive mechanism providing 24-hour operation and allowing shaking of large and uneven loads.

- 40 to 400 rpm speed range; monitored by analog tachometer
- Easy to read LED temperature display
- 1 to 60 minute timer or continuous operation

	Feature	MaxQ Analog Shakers
Performance	Drive Mechanism	Triple Eccentric
	Motor	Brushed
	Temperature Controller	PID Controller, ±0.1°C over entire temperature range
	Speed, Display and Range	Analog Tachometer, 40 to 400 rpm
	Temperature, Display and Range	Push Button LED, 10°C to 80°C
	Time Display	Analog Timer, 1–60 min timer or continuous operation
	Temperature User Calibration	Standard
	Speed User Calibration	No
	Soft Start	No
	Set Point Retention	Standard
Alarms	Speed	No
	Temperature	User adjustable over/under temperature thermostat controls the heat/refrigeration
	Temperature Set Point	Audible/Visual, over/under temperature tracking adjustable within ±1°C
	Temperature Limits	Audible/Visual, over/under temperature tracking adjustable within ±1°C
	Unbalanced Load	No
	Lid Open	Auto Platform Stop
Data Management	RS232 Interface	No
	Recorder Output	No
Other	Certifications	UL, cUL, CE
	Warranty	One year labor, five year parts, lifetime drive mechanism

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Thermo Scientific
MaxQ Digital Shakers

Our MaxQ digital shakers contain a triple eccentric drive mechanism to accommodate heavier loads, provide uniform shaking, ensure 24/7 operation and feature a maintenance-free brushless DC motor.

- 15 to 500 rpm speed range
- View temperature, speed and time simultaneously on three individual LED displays
- Continuous timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes
- Audible/Visual alarms protect cultures from temperature and speed deviations

Thermo Scientific
MaxQ Digital HP Shakers

When you require a reliable solution for sensitive cell cultures needing protection from contamination, choose from our MaxQ High Performance line of shakers.

- 25 to 525 rpm speed range
- Backlit display contains run points and set points of temperature, speed and time that can be viewed simultaneously
- Continuous operation or timed operation from 1 minute up to 199 hours and 59 minutes
- Audible/Visual alarms protect cultures from temperature and speed deviations
- HEPA filter for maximum protection from contamination
- Directed airflow system for optimum temperature uniformity and ideal growth conditions even when the units are full

MaxQ Digital Shakers	MaxQ Digital High Performance Shakers
Triple eccentric	Triple counter-balanced
Brushless	Brushless, low-heat 24V DC with moisture resistant electronics
PID Controller, ±0.1°C over entire temperature range	PID Controller, ±0.1°C over entire temperature range
Push Button LED, 15 to 500 rpm	Push Button LED, 25 to 525 rpm
Push Button LED, 10°C to 80°C	Push Button LED,4°C to 80°C
Push Button LED, 0.1 min – 999 hours or continuous operation	Push Button LED, 1 min – 199 hours and 59 min or continuous operation
Standard	Standard
Standard	Standard
Standard	Standard
Standard	Standard
Audible/Visual, ±10% of set speed	Audible/Visual, ±5 rpm
User adjustable over/under temperature thermostat controls the heat/refrigeration	User adjustable over/under temp thermostat with independent probe controls heat/refrigeration
Audible/Visual, over/under temperature tracking adjustable within ±1°C	Audible/Visual, over/under temperature tracking adjustable within ±1°C
Audible/Visual, over/under temperature tracking adjustable within ±1°C	Audible/Visual, over/under temperature tracking adjustable within ±1°C
Auto Platform Stop	Auto Platform Stop
Auto Platform Stop	Auto Platform Stop
Standard	Standard
Standard	Standard
UL, cUL, CE	UL, cUL, CE
One year labor, five years parts, lifetime drive mechanism	One year labor, five years parts, lifetime drive mechanism

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Customize your shaker solution

On the following pages, you'll find selection guides to help you build the optimal shaker for your lab and application. No matter which solution you choose, you'll find that our ordering process allows you to customize your platform for maximum flexibility and capacity.

1 Select the shaker for your application:

- **A** Select a temperature range*
- **B** Check the exterior dimensions to fit your space
- **C** Determine the vessel type and capacity on the platform
- **D** Choose analog or digital system

*temperature range not applicable on open air models

2 Choose your platform based on your needs:

Universal platforms – Choose the size platform you need appropriate to your selected shaker. With a universal platform you can maximize flexibility by selecting a mixture of different size clamps from the Universal Clamp Guide.

Dedicated platforms – Select the platform with pre-installed shaker clamps appropriate to your selected shaker. If using a single-vessel size only, such as a flask, these platforms provide maximum capacity.

3 Customize your platform with universal clamps
(available only with universal platforms)

Select the clamps you need from a wide selection available as seen in the Universal Clamp Guide.

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Thermo Scientific MaxQ 4450

A B D

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber 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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	77 (35)	**SHKE4450CC**	**SHKE4450CC-1CE**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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. 11**
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
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. 11**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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. 11**
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
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**

Universal Clamp Guide

C

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform 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**	

Dedicated Platforms with Clamps

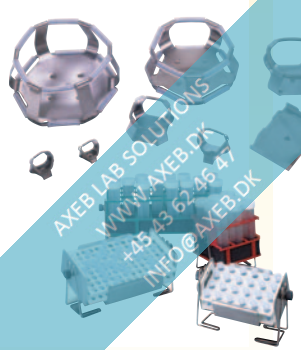
Maximize capacity by choosing your platform with pre-installed clamps.

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**

Universal Clamp Guide

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250/300 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps and replacement screws	**236099**	–
Microplate	**236025**	18
25 ml Erlenmeyer Flask	**236010**	91
50 ml Erlenmeyer Flask	**236011**	91
125 ml Erlenmeyer Flask	**236012**	39
250/300 ml Erlenmeyer Flask	**236013**	30
500 ml Erlenmeyer Flask	**236014**	24
1L Erlenmeyer Flask	**236015**	12
2L Erlenmeyer Flask	**236016**	11
2800 ml Fernback Flask	236019	6
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	300349[3]	–
Replacement Screws: (50) #10-24 x 5/16" countersink Phillips head screws for clamps and (6) 1/4-20 x 3/4" countersink flat head socket for platforms and (2) 1/4"-20 x 1-1/2" hex socket set screws	194046	



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MaxQ 2000 & 3000 Open Air Platform Shakers

Increase shaking capacity in a small footprint

Choose from several platform sizes to increase capacity by simply changing the platform

- Small shaker footprint saves valuable bench space
- Units operate in temperature range of 0°C to +40°C and humidity conditions from 20 to 80% non-condensing enabling them to be used in a variety of environments
- Triple eccentric drives handle heavy platform loads (MaxQ 2000: 35 lbs, MaxQ 3000: 50 lbs)

Digital CO_2 resistant option

- Electrical and mechanical components have been treated to protect from up to 10% CO_2 and 90% humidity conditions non-condensing
- Prevents humidity and CO_2 from reacting with electrical components and forming carbolic acid in a CO_2* environment

*Some CO_2 incubators may require cooling. Please consult your manufacturer.

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

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 2000 and MaxQ 3000 Shaker

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)	**SHKE2000C02**	**SHKE2000C02-1CE**
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**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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. 11**
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
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 60.9 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. 11**
		36 x 24" (91 x 60.9 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
Clamps	Mix and match clamps for your Universal Platform.			**See Universal Clamp Guide below**

[1]Stackable, purchase of two platforms and adapter set required for stacking

Universal Clamp Guide

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

Clamp	Model No.	Clamp Capacity Guide Maximum clamp capacity of vessels for the Universal Platform				
		MaxQ 2000			MaxQ 3000	
		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)	30 x 18" (76 x 45.7 cm)	36 x 24" (91 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	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	5	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

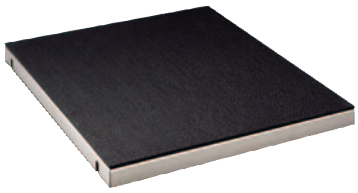
Maximize capacity by choosing your platform with pre-installed clamps.

MaxQ 2000 / MaxQ 2508 / MaxQ 2506 Shakers

Clamps come installed to provide maximum capacity			
Platform Size		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**
	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**
	5 Tier, holds platelet bags (10 x 10")	5 bags	**3523-51**
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**
	Separatory Funnel (500 ml to 2L)	3	**3524-49**
	Utility Tray	–	**3524-46**
	18 x 18" adjustable vessel platform without bottom for MaxQ 4000 and 6000 series shakers	–	**3524-60**
	18 x 18" adjustable vessel platform with bottom for MaxQ 2000 shaker	–	**3523-52**
	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**

MaxQ 3000 Shaker

Clamps come installed to provide maximum capacity			
Platform Size		Capacity	Model No.
30 x 18" (76 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**
	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" (91 x 60.9 cm)	50 ml Erlenmeyer Flask	160	**3599-52**
	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**



Utility Tray
Model No. 3523-46

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

18 x 18", 50 ml Erlenmeyer Flask Platform
Model No. 3524-3

Dedicated Separatory Funnel Platform
Model No. 3524-49

30 x 18" Dual Tiered Platforms,
Model No. 30124 (See Accessories table on page 10)

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Dual Action Orbital and Reciprocating Open Air Platform Shakers

Increased flexibility with choice of reciprocating or orbital shakers

- Analog operating system is affordably priced
- Interchangeable 11 x 13", 18 x 18" and 18 x 24" platforms are available to accommodate a variety of labware
- On dual action models, control lever changes shaking motion while unit is stationary or in operation
- Provides back-and-forth motion or circular orbital motion for a variety of applications
- Operates in temperature ranges of 4 to 40° and humidity conditions of 20–80% non-condensing for use in incubators, warm rooms, environmental chambers and refrigerators.

Applications

- Extractions
- Mixing blood samples
- Silver staining of polyacrylamide gels
- Growth of bacteria
- Dissolution studies
- Staining of electrophoresis gels

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Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

Thermo Scientific Dual-Action Orbital and Reciprocating Shakers

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**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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. 11**
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
Clamps	Mix and match clamps for your Universal Platform.			**See Universal Clamp Guide below**

[1]Stackable, purchase of two platforms and adapter set required for stacking

Universal Clamp Guide

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform MaxQ 2508 and 2506 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

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

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MaxQ 4450 Compact Benchtop Incubated Shakers

Flexible shaking option for your applications at an affordable price

Combine incubated and refrigerated temperatures in an orbital shaker in a small footprint

- Holds up to four one liter flasks
- Requires minimal bench space
- Clear lid lets you view samples without disturbing chamber atmosphere
- Achieve temperature ranges from 20°C to 30°C when connected to a circulating chiller

Models available with cooling coil providing refrigerated atmosphere for plasmid purification and protein expression in bacteria

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

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

Thermo Scientific MaxQ 4450 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber 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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	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	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	15.8 (40.1)/ 9 (22.9)	77 (35)	**SHKE4450CC**	**SHKE4450CC-1CE**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform 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

Maximize capacity by choosing your platform with pre-installed 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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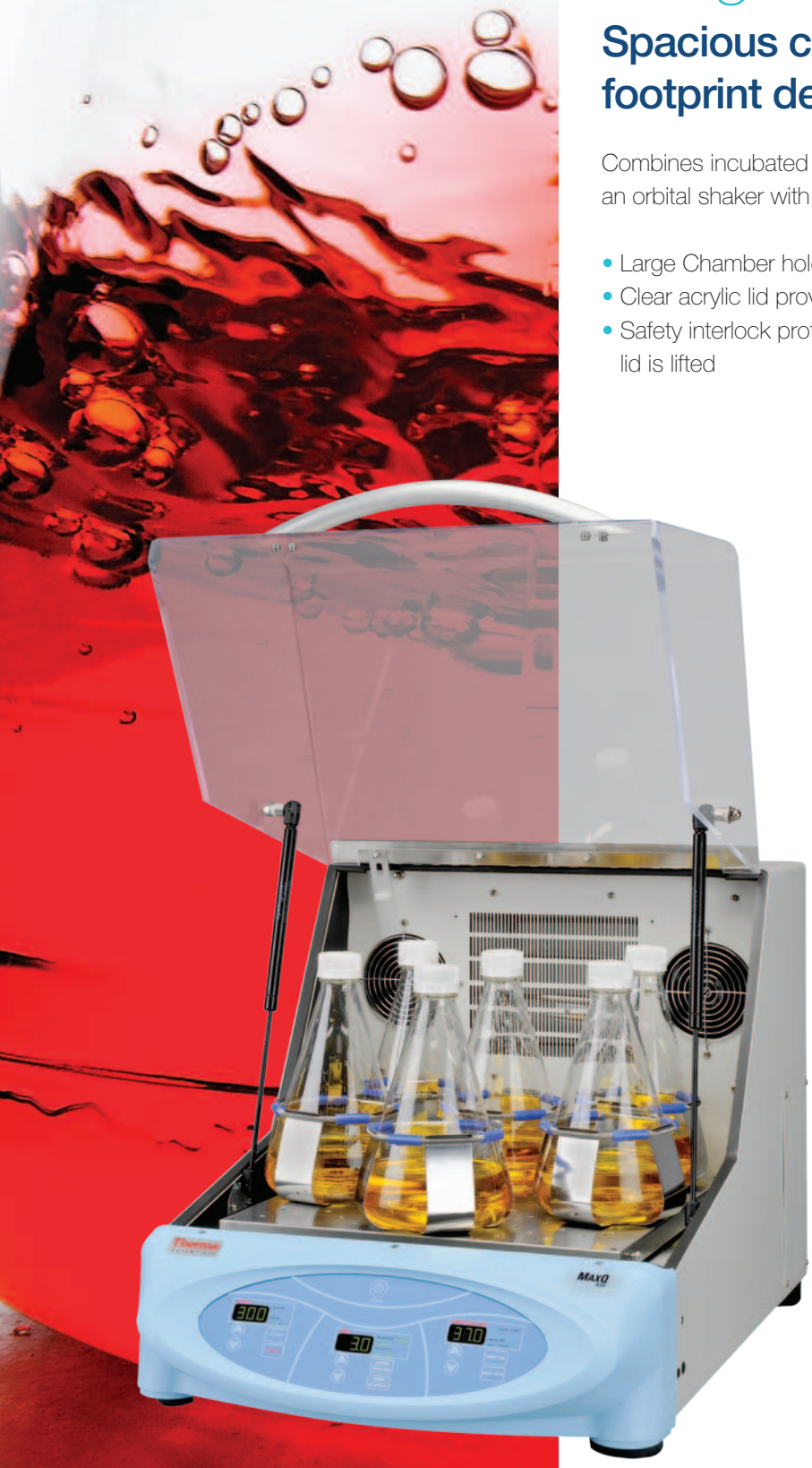
MaxQ 4000 Large Benchtop Incubated and Refrigerated Shakers

Spacious chamber in a footprint designed for the benchtop

Combines incubated and refrigerated temperatures in an orbital shaker with a spacious chamber

- Large Chamber holds six 2L flasks
- Clear acrylic lid provides high visibility for sample harvesting
- Safety interlock protects operator by stopping platform motion when lid is lifted



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

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 4000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber 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 Benchtop 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	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	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	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	167 (75.8)	**SHKE4000**	**SHKE4000-1CE**
MaxQ 4000 – Large Incubated High Temperature Benchtop 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	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	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	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	167 (75.8)	**SHKE4000-5**	**SHKE4000-6CE**
MaxQ 4000 – Large Incubated and Refrigerated Benchtop 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	±0.5°C at 37°C in flask	34 (86.4)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	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	±0.5°C at 37°C in flask	34 (86.4)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	212 (96.2)	**SHKE4000-7**	**SHKE4000-8CE**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform 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

Maximize capacity by choosing your platform with pre-installed 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 without bottom	–	**3524-60**

Miscellaneous Accessories

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

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

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MaxQ 5000 Incubated and Refrigerated Floor Shakers

Complete large capacity applications with ease

Combines incubated and refrigerated temperatures with an orbital shaker for large capacity applications

- Large chamber holds four 6L flasks
- Easy-access drain system with quick disconnect fitting permits easy clean up of spills
- Foot pedal opens lid for hands free operation
- Retractable foot casters allow easy positioning in the lab
- Observe contents through large viewing window
- Access ports in side walls for probes, thermocouples or sensors

Applications

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

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Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 5000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber 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	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	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	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	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	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	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	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	512 (232.2)	**SHKE5000-7**	**SHKE5000-8CE**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform 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

Dedicated Platforms with Clamps

Maximize capacity by choosing your platform with pre-installed clamps.

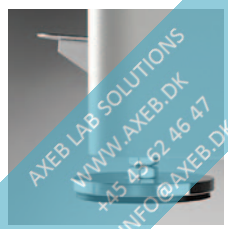
Clamps come installed to provide maximum capacity			
Platform Size		Capacity	Model No.
30 x 18" (76 x 45.7 cm)	10 ml Erlenmeyer Flask	112	**3599-1**
	25 ml Erlenmeyer Flask	112	**3599-2**
	50 ml Erlenmeyer Flask	112	**3599-3**
	125 ml Erlenmeyer Flask	56	**3599-4**
	250 ml Erlenmeyer Flask	40	**3599-5**
	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**

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 (customer installed)	**SHK5000-8GM**
Gassing manifold with 16 outlets (customer 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.

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MaxQ 6000 Incubated and Refrigerated Stackable Shakers

Save valuable lab space with stackable shakers

Combines orbital shaking with general purpose incubation for added versatility

- Units can be stacked two high on the floor to save valuable bench space
- Two adjustable-height shelves provide added storage
- Large viewing window and internal light offer sample visibility
- Door can be hinged from the right or left by the user for convenient placement in the lab
- In-chamber electrical outlet provides power for operating stirrers or rotators
- Spacious stainless steel chamber permits stacking an 18 x 18" platform to double the shaking capacity

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

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 6000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber 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)	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)**
	15–300 ±1 (stacked)					21 (53.3)	22 (55.9)	27 (68.6)			
MaxQ 6000 – Large Stackable Incubated and Refrigerated Floor Shaker											
Digital	15–500 ±1 (unstacked)	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)**
	15–300 ±1 (stacked)					21 (53.3)	22 (55.9)	27 (68.6)			

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

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

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform 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

Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size		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 8000 Incubated and Refrigerated Stackable Shakers

Maximizes flexibility and production capability in a convenient stackable design

- Units can be stacked two to three high for space savings with a speed range of 25 to 400 rpm ±1 rpm
- HEPA filter evenly distributes air inside the chamber and reduces cross contamination improving culturing conditions; rated at 95% efficient at 0.3 microns for entrapment of airborne particles
- Ergonomically designed fold down door and a platform that slides out 100% with a maximum platform height of 61" (154.9 cm) when stacked three units high improves sample handling
- Stacking kit is FREE with every unit
- User interface displays both set and actual run conditions to simplify programming and prevent entry error
- Crevice-free stainless steel interior with coved corners and built-in drain keeps spills within work area and promotes easy cleaning
- All maintenance can be handled from the front of the unit without having to move or unstack the shakers
- Chamber is tall enough to accommodate 2L Erlenmeyer flasks
- Standard remote alarm contacts allow convenient monitoring of alarm conditions from another location

Applications

- Growth of bacteria or yeast
- Dissolution studies
- Staining and destaining of electrophoresis gels
- Extractions
- Protein expression
- Growth of insect cells
- Hybridizations
- Protein purification

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Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 8000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm) L	W	H	Shipping Weight Lb. (kg)	Model. No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 8000 – Stackable Incubated Shaker											
Digital	25–400 ±1	1.0 (2.54)	35.5 (16.1)	10°C above ambient to 60°C ±0.15°C at 37°C in flask	±0.3°C at 37°C in flask	33.3 (84.6)/ 21 (53.3)	46.5 (118.1)/ 22 (55.9)	25 (63.5)/ 27 (68.6)	658 (298.5)	**SHKE8000**	**SHKE8000-1CE**
MaxQ 8000 – Stackable Incubated and Refrigerated Shaker											
Digital	25–400 ±1	1.0 (2.54)	35.5 (16.1)	20°C below ambient to 60°C ±0.15°C at 37°C in flask	±0.3°C at 37°C in flask	33.3 (84.6)/ 21 (53.3)	56.5 (143.5)/ 22 (55.9)	25 (63.5)/ 27 (68.6)	723 (328)	**SHKE8000-7**	**SHKE8000-8CE**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

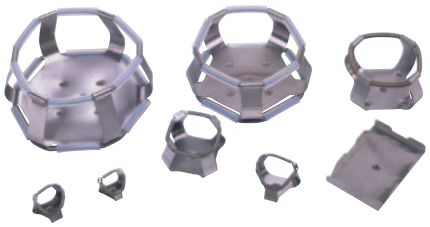
MaxQ 8000				Model. No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	29.5 x 18" (74.9 x 45.7 cm)	Platform without Clamps	**238061**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	29.5 x 18" (74.9 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms on p. 25**
Clamps	Mix and match clamps for your Universal Platform.			**See Universal Clamp Guide below**

Universal Clamp Guide

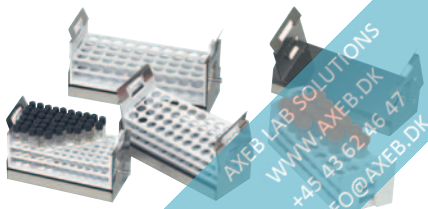
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250/300 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps and replacement screws	**236099**	–
Microplate	**236025**	18
25 ml Erlenmeyer Flask	**236010**	91
50 ml Erlenmeyer Flask	**236011**	91
125 ml Erlenmeyer Flask	**236012**	39
250/300 ml Erlenmeyer Flask	**236013**	30
500 ml Erlenmeyer Flask	**236014**	24
1L Erlenmeyer Flask	**236015**	12
2L Erlenmeyer Flask	**236016**	11
2800 ml Fernback Flask	**236019**	6
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	**300349**[3]	–
Replacement Screws: (50) #10-24 x 5/16" countersink Phillips head screws for clamps and (6) 1/4-20 x 3/4" countersink flat head socket for platforms and (2) 1/4"-20 x 1-1/2" hex socket set screws	**194046**	
Universal Test Tube Rack with Holder (Must purchase desired test tube rack in addition to holder)		
Universal adjustable angle test tube rack holder	**600088**	–
Test tube rack, 72 places, 10–13 mm (3–7 ml) tubes	**950040**[2]	5 angled
Test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	**950060**[2]	4 angled
Test tube rack, 40 places, 21–25 mm (30 ml) tubes	**600074**[2]	4 angled
Test tube rack, 24 places, 26–30 mm (50 ml) tubes	**600075**[2]	4 angled
Adjustable Test Tube Racks with Holder (Includes one test tube rack)		
Adjustable angle test tube rack holder with test tube rack, 72 places, 10–13 mm (3–7 ml) tubes	**600076**[4]	5 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	**600077**[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 21–25 mm (30 ml) tubes	**600078**[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 24 places, 26–30 mm (50 ml) tubes	**600079**[4]	4 angled
Vial/Tube Inserts		
Pack of 5 vial/tube inserts, perforated for (3) 50 ml tubes, (3) 20 ml tubes, and (8) 1.5–2 ml vials (Requires 1L Erlenmeyer Flask Clamp 236015)	**161033**	3 x 50 ml tubes, 3 x 20 ml tubes and 8 x 1.5/2.0 ml vials
Microplate Rack Inserts		
Microplate rack insert for standard plates, 3 shelves (Requires Universal adjustable angle test tube rack holder)	**600090**	7 racks, 63 plates
Microplate rack insert for deep-well plates, 2 shelves (Requires Universal adjustable angle test tube rack holder)	**600089**[1]	5 racks, 30 plates
Replacement Screws		
Replacement Screws (50) #10-24 x 5/16" countersink Phillips headscrews for mounting tube holders to platform	**194024**	–

[1]Shaken at a 15 degree angle [2]Requires 11-676-039 or a dedicated adjustable angle test tube rack holder of the corresponding size [3]Can be cut to fit, reusable [4]Includes rack holder



The universal test tube rack holder can be adjusted to fit any of the four available test tube rack sizes. Universal design requires the separate purchase of a test tube rack.



Adjustable test tube rack holders can be used only with their corresponding rack size. This design includes one test tube rack each.

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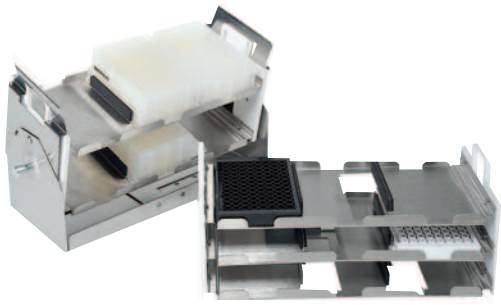
Dedicated Platforms with Clamps

Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size	Description	Capacity	Model No.
29.5 x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer Flask	91	**238066**
	50 ml Erlenmeyer Flask	91	**238067**
	125 ml Erlenmeyer Flask	61	**238068**
	250/300 ml Erlenmeyer Flask	30	**238069**
	250/300 ml Erlenmeyer Flask	40	**238070**
	500 ml Erlenmeyer Flask	24	**238071**
	1L Erlenmeyer Flask	15	**238072**
	2L Erlenmeyer Flask	12	**238073**
	2800 ml Fernbach Flask	6	**238074**



Microplate Rack Inserts

Our Microplate Rack Inserts are available for the Dedicated Adjustable Angle Test Tube Rack Holder (50 ml)-No. 600079 and the Universal Adjustable Angle Test Tube Rack Holder-No. 600088. You can increase your microplate shaking capacity, shake deepwell format plates at an angle, and remove many plates from the shaker at once for quick and easy transport to your benchtop.

Optional Accessories

MaxQ 8000		Model No.
Stand for one Stackable Shaker 45.5"W x 29.6"H x 35.3"D (115.6 x 75.2 x 89.7 cm); 30.6" (77.7 cm) max. height with leveling feet extended		**194222**
Stand for two Stackable Shakers 45.5"W x 11.8"H x 30.5"D (115.6 x 30.0 x 77.5 cm); 12.8" (32.5 cm) max. height with leveling feet extended		**194223**
Door Glass Cover Prevents light from entering through window		**194224**
7 Day Recorder 0–100°C, 6"	115V, 50/60 Hz	**201126**
	220V, 50/60 Hz	**201127**
Chart Paper, 50 sheet per box		**197075**
HEPA filter, replacement		**760440**
Sensaphone® Telephone Dialing System Alarm system that will notify user via the telephone	Four Channel, 120V/60 Hz	**400047**
	Eight Channel, 120V/60 Hz	**400134**

Stands for Stackable Shakers

The single and dual shaker stands place the stackable shakers at a convenient working height. No stand is required for units stacked three high.

Vial/Tube Inserts for 1 Liter flask clamps

Flexible, reusable, closed-cell foam Vial/Tube Inserts are ideal for shaking a mix of tube and vial sizes in temperature ranges up to 70°C (158°F). The insert fits snugly into a 1 liter flask clamp, repels spills, and is easy to clean.

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MaxQ 7000 Water Bath Shakers

Maintain outstanding temperature uniformity for water bath shaker applications

- 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
- Prevent heat loss and minimize evaporation with use of optional covers
- Minimize splashing and turbulence with twin baffles
- Optional cooling coil available for near ambient temperatures and below

Applications

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

MaxQ 7000 with stainless-steel gable cover
Model No. SHK7000-30 (See Optional Accessories, page 27)

MaxQ 7000 with Plexiglas® gable cover
Model No. SHK7000-32 (See Optional Accessories, page 27)

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Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 7000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm) L	W	H	Chamber Capacity Gallons (L)	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	±0.1°C at 37°C in flask	25 (63.5)/ 16 (41)	21.5 (54.6)/ 14 (36)	18 (45.7)/ 8 (20.3)	7.7 (29.4)	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	±0.1°C at 37°C in flask	25 (63.5)/ 16 (41)	21.5 (54.6)/ 14 (36)	18 (45.7)/ 8 (20.3)	7.7 (29.4)	107 (48.5)	**SHKE7000**	**SHKE7000-1CE**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

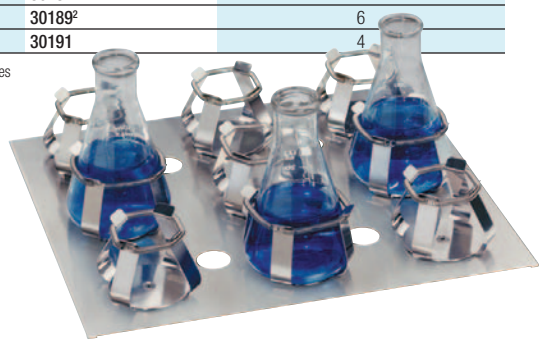
MaxQ 7000				Model. No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	11 x 13" (28 x 33 cm)	Platform without Clamps	**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

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

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal platform 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

Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size		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

MaxQ 7000	Model No.
Cooling Coil, customer installed Needed for near-ambient temperature and below	**SHK7000-37**[3]
Gable cover, Stainless-steel For temperatures up to 90°C	**SHK7000-30**
Gable cover, Plexiglas® For temperatures up to 65°C	**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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Introducing the

Thermo Scientific MaxQ High Performance Shakers

Optimized growth with proven technologies

Your cultures need to be protected.

That's why our MaxQ High Performance shakers feature set point security which restricts unauthorized or inadvertent changes to key functions. To ensure the safety of your samples, our shakers are equipped with alarm contacts allowing them to be connected to remote alarms making you aware of how the shaker is performing at all times, safeguarding both the shaker and contents.

Your cultures require optimum growth.

Outstanding temperature uniformity of ±0.3°C is provided by a directed laminar airflow and HEPA filtration system even when the units are fully loaded with samples. Low end temperature of 4°C is achieved efficiently and effectively by the filtered front to back refrigeration system airflow. This design outperforms side-to-back and back-to-back airflow designs even in high ambients.

Your sample monitoring just got easier!

Our MaxQ High Performance shakers feature a backlit display that can be viewed in bright or dimly lit conditions. It contains both run points and set points of temperature, speed and time which can be viewed simultaneously, preventing toggling from one display to another.

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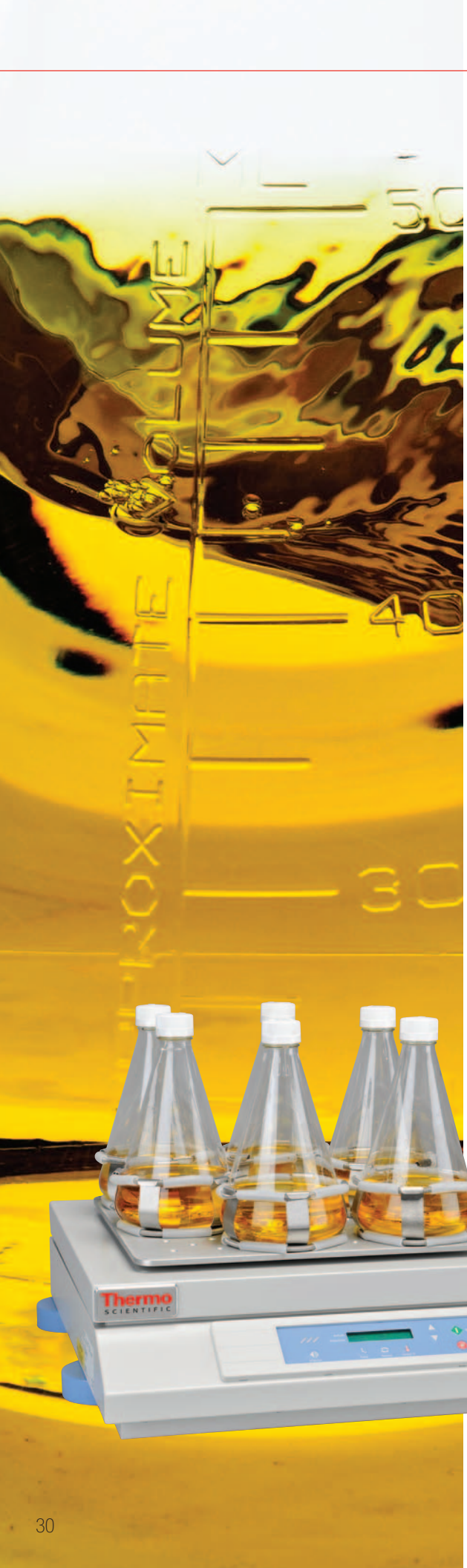
MaxQ High Performance 416 and 430 Open Air Platform Shakers

Choice of two platform sizes maximizes capacity

- Low heat 24V DC motor with moisture resistant electronics provides continuous maintenance-free operation on the benchtop or in a chamber
- Triple counter-balanced mechanism for optimum handling of full or unbalanced loads regardless of vessel placement and completely eliminates walking
- Units operate in temperature range of 4°C to +40°C and humidity conditions from 50 to 80% non-condensing enabling them to be used in a variety of environments
- Oversized, adjustable suction cup feet minimize vibration

Applications

- Cell culture
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing
- Bacterial suspensions
- Staining
- Destaining
- Washing procedures
- Hybridizations



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Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ High Performance 416 and 430 Shakers

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. 115V/230V, 50/60Hz (Dual Voltage)
MaxQ 416 HP - Mid-Size Open Air Shaker								
Digital	25–525 ±1	1.0 (2.5)	71 (32)	26 (66)	24.3 (61.7)	7.8 (19.8)	234 (106)	**SHKE416HP**
MaxQ 430 HP - Large Open Air Shaker								
Digital	25–525 ±1	1.0 (2.5)	71 (32)	26 (66)	30.5 (77.5)	7.8 (19.8)	234 (106)	**SHKE430HP**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 416 HP				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	**238000**
		24" x 18" (60.9 x 45.7 cm)	Platform without Clamps	**238008**
	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**
		24" x 18" (60.9 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**
MaxQ 430 HP				**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.	29.5" x 18" (74.9 x 45.7 cm)	Platform without Clamps	**238001**
		36" x 24" (91.4 x 60.9 cm)	Platform without Clamps	**238002**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	29.5" x 18" (74.9 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms below**
		36" x 24" (91.4 x 60.9 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

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

Clamp	Model No.	Clamp Capacity Guide Maximum clamp capacity of vessels for the Universal Platform. MaxQ 416 HP 18" x 18" (45.7 x 45.7 cm)	MaxQ 416 HP 24" x 18" (60.9 x 45.7 cm)	MaxQ 430 HP 29.5" x 18" (74.9 x 45.7 cm)	MaxQ 430 HP 36" x 24" (91.4 x 60.9 cm)
Flask Clamp Starter Kit includes: (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, and (2) 2L flask clamps	**236099**				
Microplate / Deepwell Plate	**236025**	10	16	18	31
25 ml Erlenmeyer Flask	**236010**	49	80	91	150
50 ml Erlenmeyer Flask	**236011**	49	80	91	150
125 ml Erlemeyer Flask	**236012**	25	40	39	75
250/300 ml Erlenmeyer Flask	**236013**	18	25	30	55
500 ml Erlenmeyer Flask	**236014**	16	20	24	30
1L Erlenmeyer Flask	**236015**	8	12	12	24
2L Erlenmeyer Flask	**236016**	6	8	11	15
4L Erlenmeyer Flask	**236017**	4	5	6	11
5L Erlenmeyer Flask	**236028**	4	4	6	8
6L Erlenmeyer Flask	**236018**	2	4	4	8
2800 ml Fernbach Flask	**236019**	4	5	6	11
Adhesive Flask Mat	**300349**	–	–	–	–
Adjustable Test Tube Racks with Holder (Includes one test tube rack)					
10–13 mm - 3–7 ml tube rack - 72 place	**600076**	4	6	8	16
16–20 mm - 10–20 ml tube rack - 40 place	**600077**	4	6	7	16
21–25 mm - 30 ml tube rack - 40 place	**600078**	3	5	6	9
26–30 mm - 50 ml tube rack -24 place	**600079**	3	5	6	9
Universal Test Tube Rack with Holder (Must purchase desired test tube rack in addition to holder)					
Universal adjustable angle test tube rack holder	**600088**	–	–	–	–
10–13 mm - 3–7 ml tube rack - 72 place	**950040**	3	4	5	9
16–20 mm - 10–20 ml tube rack - 40 place	**950060**	3	4	5	9
21–25 mm - 30 ml tube rack - 40 place	**600074**	2	3	4	7
26–30 mm - 50 ml tube rack -24 place	**600075**	2	3	4	7
Microplate Racks and Vial/Tube Inserts					
Microplate Rack for Standard Plates	**600090**[1]	4 racks, 36 plates	5 racks, 45 plates	7 racks, 63 plates	8 racks, 72 plates
Microplate Rack for Deepwell Plates	**600089**[2]	3 racks, 18 plates	4 racks, 24 plates	5 racks, 30 plates	7 racks, 42 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	**161033***	8	12	12	24
Universal Utility Trays					
9" x 18" (22.9 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	**236026**	1	2	3	3
18" x 18" (45.7 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	**236027**	1	1	1	2

*Holds 3 x 50 ml tubes, 3 x 20 ml tubes, and 8 x 1.5/2.0 ml vials [1]3 shelves [2]2 shelves

Miscellaneous Accessories

MaxQ HP 416, 430	Model No.
9.0" x 18.0" (22.9 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	**236026**
18.0" x 18.0" (45.7 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	**236027**
Quick change platform adapter	**194040**
MagNote wipe-off magnet and pen kit (benchtop models only)	**194140**
Four channel Sensaphone telephone dialing system	**400047**
Eight channel Sensaphone telephone dialing system	**400134**
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	**194024**
Replacement screws: (50) #10-24 x 5/16" Countersink Phillips Head Screws for Clamps and (12) 1/4-20 x 3/4" Countersink Flat Head Socket Screws for Platforms	**194046**

Dedicated Platforms with Clamps

Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size	Description	Capacity	Model No.
MaxQ 416 HP			
18" x 18" (45.7 x 45.7 cm)	25 ml Erlenmeyer Flask	49	**238010**
	50 ml Erlenmeyer Flask	49	**238011**
	125 ml Erlemeyer Flask	25	**238012**
	125 ml Erlemeyer Flask*	36	**238049**
	250/300 ml Erlenmeyer Flask	18	**238013**
	250/300 ml Erlenmeyer Flask*	25	**238050**
	500ml Erlenmeyer Flask	16	**238014**
	1L Erlenmeyer Flask	8	**238015**
	2L Erlenmeyer Flask	6	**238016**
	4L Erlenmeyer Flask	4	**238046**
	5L Erlenmeyer Flask	4	**238053**
	6L Erlenmeyer Flask	2	**238047**
	2800ml Fernbach Flask	4	**238048**
24" x 18" (60.9 x 45.7 cm)	25 ml Erlenmeyer Flask	80	**238036**
	50 ml Erlenmeyer Flask	80	**238037**
	125 ml Erlemeyer Flask	40	**238038**
	250/300 ml Erlenmeyer Flask	25	**238052**
	250/300 ml Erlenmeyer Flask*	35	**238039**
	500 ml Erlenmeyer Flask	20	**238040**
	1L Erlenmeyer Flask	12	**238041**
	2L Erlenmeyer Flask	8	**238042**
	4L Erlenmeyer Flask	5	**238043**
	5L Erlenmeyer Flask	4	**238055**
	6L Erlenmeyer Flask	4	**238044**
	2800 ml Fernbach Flask	5	**238045**
MaxQ 430 HP			
29.5" x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer Flask	91	**238017**
	50 ml Erlenmeyer Flask	91	**238018**
	125 ml Erlemeyer Flask	61	**238019**
	250/300 ml Erlenmeyer Flask	30	**238051**
	250/300 ml Erlenmeyer Flask*	40	**238020**
	500 ml Erlenmeyer Flask	24	**238021**
	1L Erlenmeyer Flask	15	**238022**
	2L Erlenmeyer Flask	12	**238023**
	4L Erlenmeyer Flask	6	**238024**
	5L Erlenmeyer Flask	6	**238054**
	6L Erlenmeyer Flask	4	**238025**
	2800 ml Fernbach Flask	6	**238026**
36" x 24" (91.4 x 60.9 cm)	25 ml Erlenmeyer Flask	150	**238057**
	50 ml Erlenmeyer Flask	150	**238058**
	125 ml Erlemeyer Flask	96	**238027**
	250/300 ml Erlenmeyer Flask*	70	**238028**
	500 ml Erlenmeyer Flask	80	**238029**
	1L Erlenmeyer Flask	44	**238030**
	2L Erlenmeyer Flask	45	**238031**
	4L Erlenmeyer Flask	11	**238032**
	5L Erlenmeyer Flask	8	**238056**
	6L Erlenmeyer Flask	8	**238033**
	2800 ml Fernbach Flask	11	**238034**

*Increased capacity design does not allow the use of flasks larger than 500 ml.

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MaxQ High Performance 420 Large Benchtop Incubated Shakers

Outstanding temperature uniformity improves product yields

Double-wall, insulated chamber contributes to optimum growth

- Twin blowers and gasketed lid ensure temperature uniformity of ±0.3°C (in flask) creating an ideal environment for temperature sensitive cultures
- Triple counter-balanced mechanism
- Microprocessor functions are calibrated through keypad
- Platform easily accommodates 6 x 2L flasks
- Clear acrylic lid withstands years of use without cracking or discoloration
- Audible/visual over and under-temperature alarms ensure sample protection
- Innovative design ensures system protection in case of spills

Applications

- Cell culture
- DNA fingerprinting
- Solubility studies
- Extraction procedures
- Protein expressions
- Bacterial suspensions
- Washing procedures
- Staining and destaining

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Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ High Performance 420 Shakers

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/Chamber Dimensions In (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 115V/230V, 50/60Hz (Dual Voltage)
MaxQ 420 HP - Incubated Benchtop Shaker										
Digital	25–525 ±1	1.0 (2.5)	71 (32)	5°C above ambient to 80°C, ±0.1°C	±0.3°C at 37°C in flask	29 (73.7)/ 21.2 (53.8)	24.3 (61.7)/ 21.4 (54.4)	20.9 (53.1)/ 12.6 (32)	250 (113.4)	**SHKE420HP**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 420 HP				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	**238000**
	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

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

Clamp	Model No.	Clamp Capacity Guide Maximum clamp capacity of vessels for the Universal Platform. MaxQ 420 HP 18" x 18" (45.7 x 45.7 cm)
Flask Clamp Starter Kit includes: (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, and (2) 2L flask clamps	**236099**	
Microplate / Deepwell Plate	**236025**	10
25 ml Erlenmeyer Flask	**236010**	49
50 ml Erlenmeyer Flask	**236011**	49
125 ml Erlemeyer Flask	**236012**	25
250/300 ml Erlenmeyer Flask	**236013**	18
500 ml Erlenmeyer Flask	**236014**	16
1L Erlenmeyer Flask	**236015**	8
2L Erlenmeyer Flask	**236016**	6
2800 ml Fernbach Flask	**236019**	4
Adhesive Flask Mat	**300349**	–
Adjustable Test Tube Racks with Holder (Includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	**600076**	4
16–20 mm - 10–20 ml tube rack - 40 place	**600077**	4
21–25 mm - 30 ml tube rack - 40 place	**600078**	3
26–30 mm - 50 ml tube rack -24 place	**600079**	3
Universal Test Tube Racks with Holder (Must purchase desired test tube rack in addition to holder)		
Universal Adjustable Tube Rack Holder	**600088**	–
10–13 mm - 3–7 ml tube rack - 72 place	**950040**	3
16–20 mm - 10–20 ml tube rack - 40 place	**950060**	3
21–25 mm - 30 ml tube rack - 40 place	**600074**	2
26–30 mm - 50 ml tube rack -24 place	**600075**	2
Microplate Racks and Vial/Tube Inserts		
Microplate Rack for Standard Plates (3 shelves)	**600090**	4 racks, 36 plates
Microplate Rack for Deepwell Plates (2 shelves)	**600089**	3 racks, 18 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	**161033***	8
Universal Utility Trays		
9" x 18" (22.9 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	**236026**	1
18" x 18" (45.7 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	**236027**	1

*Holds 3 x 50 ml tubes, 3 x 20 ml tubes and 8 x 1.5/2.0 ml vials

Dedicated Platforms with Clamps

Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size	Description	Capacity	Model No.
18" x 18" (45.7 x 45.7 cm)	25 ml Erlenmeyer Flask	49	**238010**
	50 ml Erlenmeyer Flask	49	**238011**
	125 ml Erlemeyer Flask	25	**238012**
	125 ml Erlemeyer Flask	36	**238049**
	250/300 ml Erlenmeyer Flask	18	**238013**
	250/300 ml Erlenmeyer Flask	25	**238050**
	500 ml Erlenmeyer Flask	16	**238014**
	1L Erlenmeyer Flask	8	**238015**
	2L Erlenmeyer Flask	6	**238016**
	2800 ml Fernbach Flask	4	**238048**

Miscellaneous Accessories

MaxQ HP 420	Model No.
Dual-stack benchtop shaker kit, includes kneewell side mount and orbital shaker stand	**452000**
Kneewell slide mount, shaker slides out on rails for easy access: 26.6" W x 22.2" H x 33" D (67.6 cm x 56.4 cm x 83.8 cm)	**452002**
Orbital shaker stand, uses 33.5" W x 37.3" H x 35.3" D of floor space (85.1 cm x 94.7 cm x 89.7 cm)	**452001**
Four drawer assembly, dimensions: 9.0" W x 18.0" H x 21.5" D (22.9 cm x 45.7 cm x 54.6 cm)	**191494**
Roller base for drawer assembly, adds 3" (7.6cm) to height: 9.4" W x 3.6" H x 21.9" D (23.9 cm x 9.1 cm x 55.6 cm)	**191591**
Gassing manifold (one gas)	**194045**
Free-standing 0–100°C, 6", seven day chart recorder, 115V, 60 Hz	**201126**
Free-standing 0–100°C, 6", seven day chart recorder, 220V, 50 Hz	**201127**
Replacement chart paper, 50 per box	**197075**
9.0" x 18.0" (22.9 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	**236026**
18.0" x 18.0" (45.7 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	**236027**
Quick change platform adapter	**194040**
MagNote wipe-off magnet and pen kit (benchtop models only)	**194140**
Four channel Sensaphone telephone dialing system	**400047**
Eight channel Sensaphone telephone dialing system	**400134**
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	**194024**
Replacement screws: (50) #10-24 x 5/16" Countersink Phillips Head Screws for Clamps and (12) 1/4-20 x 3/4" Countersink Flat Head Socket Screws for Platforms	**194046**

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MaxQ High Performance Incubated and Refrigerated Floor Shakers Models 435 (436) and 480R (481R)

Solutions for high capacity requirements

- HEPA filtration for maximum protection from contamination
- Drain system with valve makes it easy to eliminate liquid, reducing the risk of water borne contamination
- Directed laminar airflow system for optimum temperature uniformity
- Crevice-free, stainless steel interior with coved corners for easy cleaning
- Viewing window offers sample visibility
- Access port in rear of cabinet allows insertion of probes, CO_2 gassing manifolds or other equipment
- Foot pedal opens lid for hands free operation
- Floor models meet specified performance of 4°C to 60°C even in high ambient temperatures
- Low end temperature is achieved by the filtered front to back refrigeration air flow system

Applications

- Cell culture
- Extractions
- Plasmid purifications
- Solubility studies
- Hybridizations
- Staining and destaining

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Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ High Performance 435 (436) and 480R (481R) Shakers

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/Chamber Dimensions In (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 60Hz	Model No. 230V, 50/60Hz
MaxQ 435 / 436 HP - Large Incubated Floor Shaker											
Digital	25–525 ±1	1.0 (2.5)	71 (32)	5°C above ambient to 60°C, ±0.1°C	±0.2°C at 37°C in flask	30 (76.2)/ 21.1 (53.6)	45 (114.3)/ 34.3 (87.1)	40.4 (102.6)/ 18.5 (47)	610 (277)	**SHKE435HP**	**SHKE436HP**
MaxQ 480R / 481R HP - Large Incubated and Refrigerated Floor Shaker											
Digital	25–525 ±1	1.0 (2.5)	71 (32)	4°C to 60°C, ±0.1°C	±0.2°C at 37°C in flask	30 (76.2)/ 21.1 (53.6)	45 (114.3)/ 34.3 (87.1)	40.4 (102.6)/ 18.5 (47)	665 (302)	**SHKE480HP**	**SHKE481HP**

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 435 / 436 / 480R / 481R HP				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.	29.5" x 18" (74.9 x 45.7 cm)	Platform without Clamps	**238001**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	29.5" x 18" (74.9 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

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

Clamp	Model No.	Clamp Capacity Guide Maximum clamp capacity of vessels for the Universal Platform. MaxQ 435 / 436 / 480R / 481R HP 29.5" x 18" (74.9 x 45.7 cm)
Flask Clamp Starter Kit includes: (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, and (2) 2L flask clamps	**236099**	
Microplate / Deepwell Plate	**236025**	18
25 ml Erlenmeyer Flask	**236010**	91
50 ml Erlenmeyer Flask	**236011**	91
125 ml Erlemeyer Flask	**236012**	39
250/300 ml Erlenmeyer Flask	**236013**	30
500 ml Erlenmeyer Flask	**236014**	24
1L Erlenmeyer Flask	**236015**	12
2L Erlenmeyer Flask	**236016**	11
4L Erlenmeyer Flask	**236017**	6
5L Erlenmeyer Flask	**236028**	6
6L Erlenmeyer Flask	**236018**	4
2800 ml Fernbach Flask	**236019**	6
Adhesive Flask Mat	**300349**	–
Adjustable Test Tube Racks with Holder (Includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	**600076**	4
16–20 mm - 10–20 ml tube rack - 40 place	**600077**	4
21–25 mm - 30 ml tube rack - 40 place	**600078**	3
26–30 mm - 50 ml tube rack -24 place	**600079**	3
Universal Test Tube Racks with Holder (Must purchase desired test tube rack in addition to holder)		
Universal Adjustable Tube Rack Holder	**600088**	–
10–13 mm - 3–7 ml tube rack - 72 place	**950040**	3
16–20 mm - 10–20 ml tube rack - 40 place	**950060**	3
21–25 mm - 30 ml tube rack - 40 place	**600074**	2
26–30 mm - 50 ml tube rack -24 place	**600075**	2
Microplate Racks and Vial/Tube Inserts		
Microplate Rack for Standard Plates (3 shelves)	**600090**	7 racks, 63 plates
Microplate Rack for Deepwell Plates (2 shelves)	**600089**	5 racks, 30 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	**161033***	12
Universal Utility Trays		
9" x 18" (22.9 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	**236026**	1
18" x 18" (45.7 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	**236027**	1

*Holds 3 x 5 0 ml tubes, 3 x 20 ml tubes and 8 x 1.5/2.0 ml vials

Dedicated Platforms with Clamps

Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size	Description	Capacity	Model No.
29.5" x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer Flask	91	**238017**
	50 ml Erlenmeyer Flask	91	**238018**
	125 ml Erlemeyer Flask	61	**238019**
	250/300 ml Erlenmeyer Flask	30	**238051**
	250/300 ml Erlenmeyer Flask	40	**238020**
	500 ml Erlenmeyer Flask	24	**238021**
	1L Erlenmeyer Flask	15	**238022**
	2L Erlenmeyer Flask	12	**238023**
	4L Erlenmeyer Flask	6	**238024**
	5L Erlenmeyer Flask	6	**238054**
	6L Erlenmeyer Flask	4	**238025**
	2800 ml Fernbach Flask	6	**238026**

Miscellaneous Accessories

MaxQ HP 435, 436, 480, 481	Model No.
Removable shelf	**194033**
Gassing manifold (one gas)	**194045**
0°C to 60°C, seven day chart recorder, 115V, 50/60 Hz	**201113**
Replacement chart paper, 50 per box	**180006**
HEPA filter replacement	**760164**
9.0" x 18.0" (22.9 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	**236026**
18.0" x 18.0" (45.7 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	**236027**
Platform adapter for NBS 30" x 18.0" (76.2cm x 45.7cm) platform	**194041**
Quick change platform adapter	**194040**
MagNote wipe-off magnet and pen kit (floor models only)	**194139**
Four channel Sensaphone telephone dialing system	**400047**
Eight channel Sensaphone telephone dialing system	**400134**
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	**194024**
Replacement screws: (50) #10-24 x 5/16" Countersink Phillips Head Screws for Clamps and (12) 1/4-20 x 3/4" Countersink Flat Head Socket Screws for Platforms	**194046**

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