Thermo Scientific MaxQ Shakers

Reliability. Simplicity.
Flexibility.

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Thermo Scientific MaxQ Shaker Product Selector Guide

MaxQ Orbital Shakers

Model	MaxQ 2000 Choice of 3 platform sizes			MaxQ 3000 Choice of 2 platform sizes		MaxQ 4450 Incubated temperatures in a compact footprint	MaxQ 4000 Spacious chamber holds 6 x 2L flasks		
Benchtop, floor or stackable	Benchtop			Benchtop		Benchtop	Benchtop		
Motion	Orbital			Orbital		Orbital	Orbital		
Platform size inches (cm)	13 x 11 (33 x 28)	18 x 18 (45.7 x 45.7)	24 x 18 (60.9 x 45.7)[1]	30 x 18 (76 x 45.7)	36 x 24 (91 x 60.9)	13 x 11 (33 x 28)	18 x 18 (45.7 x 45.7)		
250 ml flask capacity dedicated* platform	12	25	N/A	40	70	10	25		
250 ml flask capacity universal* platform	9	16	24	24	40	9	16		
Maximum capacity largest flask on a Platform	1 x 6L	2 x 6L	3 x 6L	3 x 6L	6 x 6L	4 x 1L	6 x 2L		
Orbit diameter reciprocating Motion Inches (cm)	0.75 (1.9)			1.0 (2.54)		0.75 (1.9)	0.75 (1.9)		
RPM range	Digital: 15–500			Digital: 15–500		Digital: 15–500	Digital: 15–500		
Temperature range °C (T_A=ambient temperature)	N/A			N/A		T_A +5°C to 80°C	T_A +10°C to 60°C	T_A +10°C to 80°C	T_A -15°C to 60°C
Maximum load lb. (kg)	35 (15.9)			50 (22.7)		35 (15.9)	50 (22.7)		
Refrigeration							●		
Gassing manifold							●		
Page	6-8			6-8		9-10	11–12		

*See page 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: [4]Achievable maximum speeds may be dependent on load

Model	MaxQ 5000		MaxQ 6000		MaxQ 8000		MaxQ 7000
	Large capacity applications		Stackable, space-savings		Maximum flexibility, stackable design		Excellent temperature uniformity
Benchtop, floor or stackable	Floor		Stackable		Stackable		Benchtop
Motion	Orbital		Orbital		Orbital		Orbital
Platform size inches (cm)	30 x 18 (76 x 45.7)		18 x 18 (45.7 x 45.7)		29.5 x 18 (74.9 x 45.7)		13 x 11 (33 x 28)
250 ml flask capacity dedicated* platform	40		25		30		9
250 ml flask capacity universal* platform	24		16		30		9
Maximum capacity largest flask on a platform	4 x 6L		2 x 6L		12 x 2L		1 x 6L
Orbit diameter reciprocating motion inches (cm)	1.0 (2.54)		0.75 (1.9)		1.0 (2.54)		0.5 (1.27)
RPM range	Digital: 15–500		Digital: 15–500		Digital: 25–400		Digital: 15–500
Temperature range °C (T_A=ambient temperature)	T_A+10°C to 60°C	T_A-15°C to 60°C	T_A+10°C to 80°C	T_A-15°C to 80°C	T_A+10°C to 60°C	T_A-5°C or 20°C to 60°C	T_A+5°C to 65°C
Maximum load lb. (kg)	75 (34)		35 (15.9)		71 (32)		35 (15.9)
Refrigeration	●		●		●		
Gassing manifold	●						
Page	13–14		15–16		18–20		21–22

*See page 7 for a complete description of platform types   4Achievable maximum speeds may be dependent on load

Model	MaxQ 416 HP Maximize capacity with platform options		MaxQ 430 HP Maximum capacity with platform options		MaxQ 420 HP Large benchtop, excellent temperature uniformity	MaxQ 435 (436) HP Incubated	MaxQ 480 (481) HP Refrigerated
Benchtop or floor	Benchtop		Benchtop		Benchtop	Floor	
Motion	Orbital		Orbital		Orbital	Orbital	
Platform size inches (cm)	18 x 18 (45.7 x 45.7)	24 x 18 (60.9 x 45.7)	29.5 x 18 (74.9 x 45.7)	36 x 24 (91.4 x 60.9)	18 x 18 (45.7 x 45.7)	29.5 x 18 (74.9 x 45.7)	
250 ml flask capacity dedicated* platform	25	35	40	70	25	40	
250 ml flask capacity universal* platform	18	25	30	55	18	30	
Maximum capacity largest flask on a platform	2 x 6L	4 x 6L	4 x 6L	8 x 6L	6 x 2L	4 x 6L	
Orbit diameter inches (cm)	1.0 (2.54)		1.0 (2.54)		1.0 (2.54)	1.0 (2.54)	
RPM range	25–525		25–525		25–525	25–525	
Temperature Range °C (T_A=ambient temperature)	N/A		N/A		T_A +5°C to 80°C	T_A +5°C to 60°C	4°C to 60°C
Maximum load lb. (kg)	71 (32)		71 (32)		71 (32)	71 (32)	
Refrigeration							●
Incubation					●	●	
Page	24–25		24–25		26–27	28–29	

*See page 7 for a complete description of platform types

Trust your samples to an outstanding, reliable shaker

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

Our 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.

Reliability

Our outstanding drive mechanisms provide continuous 24-hour operation and allow you to shake large and uneven loads, smoothly and uniformly. These innovative designs are available on all Thermo Scientific orbital shakers and both designs come with a 10-year warranty on drive mechanisms.

Simplicity

Easy-to-use controls are designed to 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, separatory funnels and Thermo Scientific™ Nunc™ microwell plates.

MaxQ Digital Shakers

Our MaxQ digital shakers contain a triple eccentric drive mechanism to accommodate heavier loads, provide uniform shaking, designed to 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

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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

	Feature	MaxQ Digital Shakers	MaxQ Digital High Performance Shakers
Performance	Drive mechanism	Triple eccentric	Triple counter-balanced
	Motor	Brushless	Brushless, low-heat 24V DC with moisture resistant electronics
	Temperature controller	PID controller, ±0.1°C over entire temperature range	PID controller, ±0.1°C over entire temperature range
	Speed, display and range	Push button LED, 15 to 500 rpm	Push button LED, 25 to 525 rpm
	Temperature, display and range	Push button LED, 10°C to 80°C	Push button LED, 4°C to 80°C
	Time display	Push button LED, 0.1 min – 999 hours or continuous operation	Push button LED, 1 min – 199 hours and 59 min or continuous operation
	Temperature user calibration	Standard	Standard
	Speed user calibration	Standard	Standard
	Soft start	Standard	Standard
	Set point retention	Standard	Standard
Alarms	Speed	Audible/visual, ±10% of set speed	Audible/visual, ±5 rpm
	Temperature	User adjustable over/under temperature thermostat controls the heat/refrigeration	User adjustable over/under temp thermostat with independent probe controls heat/refrigeration
	Temperature set point	Audible/visual, over/under temperature tracking adjustable within ±1°C	Audible/visual, over/under temperature tracking adjustable within ±1°C
	Temperature limits	Audible/visual, over/under temperature tracking adjustable within ±1°C	Audible/visual, over/under temperature tracking adjustable within ±1°C
	Unbalanced load warning	Auto platform stop	Auto platform stop
	Lid open	Auto platform stop	Auto platform stop
Data Management	RS232 interface	Standard	Standard
	Recorder output	Standard	Standard
Other	Certifications	UL, cUL, CE	UL, cUL, CE
	Warranty	2 years labor, 5 years parts, 10 years drive mechanism parts	2 years labor, 5 years parts, 10 years drive mechanism parts

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 carbonic 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

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)			Shipping weight lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
				L	W	H			
MaxQ 2000 – small open air shakers									
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)	**47742-752**	**47742-872**
Digital, CO₂ 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)	**80089-840**	**80089-842**
MaxQ 3000 – large open air shakers									
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)	**47742-878**	**47742-880**

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.		13 x 11" (33 x 28 cm)	Platform without clamps	57018-990[1]
			13 x 11" (33 x 28 cm)	Dual stacked platform without clamps	97040-484
			18 x 18" (45.7 x 45.7 cm)	Platform without clamps	57018-913[1]
			18 x 18" (45.7 x 45.7 cm)	Dual stacked platform without clamps	97040-486
			24 x 18" (60.9 x 45.7 cm)	Platform without clamps	13306-568
	Dedicated platforms Clamps come installed to provide maximum capacity.		13 x 11" (33 x 28 cm)	Platform with clamps	See dedicated platforms on p. 10
			18 x 18" (45.7 x 45.7 cm)	Platform with clamps	See dedicated platforms on p. 10
Clamps	Mix and match clamps for your universal platform.				See universal clamp guide below
Misc. accessories	Adapter set for stacking two platforms (models 57018-990 and 57018-913 only)				72890-182
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	57019-020
			30 x 18" (76 x 45.7 cm)	Dual stacked platform without clamps	72890-048
			36 x 24" (91 x 60.9 cm)	Platform without clamps	57019-031
	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. 10
			36 x 24" (91 x 60.9 cm)	Platform with clamps	See dedicated platforms on p. 10
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	
		13 x 11" (33 x 28 cm)	18 x 18" (45.7 x 45.7 cm)	24 x 18" (60.9 x 45.7 cm)	30 x 18" (76 x 45.7 cm)	36 x 24" (91 x 60.9 cm)
Flask clamp starter kit, includes (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97040-488					
Microplate/deep-well plate	47742-478	5	10	15	18	29
10 ml Erlenmeyer flask	57019-670	60	113	157	112	160
25 ml Erlenmeyer flask	57019-672	60	64	80	112	160
50 ml Erlenmeyer flask	57019-674	30	32	40	112	160
125 ml Erlenmeyer flask	57019-676	13	32	40	44	80
250 ml Erlenmeyer flask	57019-678	9	16	24	24	40
300 ml Erlenmeyer flask	57019-680	7	16	20	20	40
500 ml Erlenmeyer flask	57019-682	6	16	20	18	40
1L Erlenmeyer flask	67019-684	4	9	10	12	21
2L Erlenmeyer flask	57019-686	1	6	5	6	11
4L Erlenmeyer flask	57019-688	1	4	4	6	11
6L Erlenmeyer flask	57019-690	1	2	3	3	6
2500 ml low form culture flask	57019-692	1	1	2	3	6
2800 ml Fernbach flask	57019-696	1	4	4	5	8
Adhesive flask mat, 9 x 9" (23 x 23 cm)	97007-248[3]	–	–	–	–	–
Test tube racks – full size						
10–13 mm, red, 6 x 12 array	80080-552	3	6	8	13	16
14–16 mm, orange, 6 x 12 array	80080-556[1]	2	4	6	7	10
17–20 mm, white, 4 x 10 array	80080-556	3	5	6	9	14
21–25 mm, blue, 4 x 10 array	80080-564	2	3	4	7	7
26–30 mm, green, 3 x 8 array	80080-568[2]	2	4	6	7	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	80080-572	2	5	6	8	10
Test tube racks – half size						
10–13 mm, red, 6 x 6 array	80080-554	6	12	15	21	25
14–16 mm, orange, 6 x 6 array	80080-558[1]	4	6	8	10	12
17–20 mm, white, 4 x 5 array	80080-562	4	8	13	18	20
21–25 mm, blue, 4 x 4 array	80080-566	4	6	9	10	15
26–30 mm, green, 3 x 3 array	80080-570[2]	6	9	12	15	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	80080-574	4	8	10	14	20

[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.

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	72890-180
	25 ml Erlenmeyer flask	30	57018-935
	50 ml Erlenmeyer flask	30	57018-936
	125 ml Erlenmeyer flask	15	57018-957
	250 ml Erlenmeyer flask	10	57018-980
	500 ml Erlenmeyer flask	6	57018-902
	1L Erlenmeyer flask	4	57018-982
	2L Erlenmeyer flask	4	72890-178
	Utility tray	–	57018-906
	11 x 13" adjustable vessel platform	–	72890-186
	5 Tier, holds platelet bags (10 x 10")	5 bags	97049-314
18 x 18" (45.7 x 45.7 cm)	10 ml Erlenmeyer flask	113	72890-138
	25 ml Erlenmeyer flask	64	57019-390
	50 ml Erlenmeyer flask	64	57019-391
	125 ml Erlenmeyer flask	32	57019-392
	250 ml Erlenmeyer flask	25	57019-439
	300 ml Erlenmeyer flask	16	57019-472
	500 ml Erlenmeyer flask	16	57019-440
	1L Erlenmeyer flask	9	57019-473
	2L Erlenmeyer flask	5	57019-474
	Separatory funnel (500 ml to 2L)	3	57019-506
	Utility tray	–	57019-505
	18 x 18" adjustable vessel platform without bottom for MaxQ 4000 and 6000 series shakers	–	97049-312
	18 x 18" adjustable vessel platform with bottom for MaxQ 2000 shaker	–	97049-310
	10 ml beaker	152	72890-118
	20 ml beaker	104	72890-116
	30 ml beaker	104	72890-114
	100 ml beaker	44	72890-112
	250 ml beaker	25	72890-110
	400 ml beaker	25	57019-500
	600 ml beaker	16	72890-108

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	72890-082
	25 ml Erlenmeyer flask	112	72890-080
	50 ml Erlenmeyer flask	112	57019-095
	125 ml Erlenmeyer flask	56	57019-096
	250 ml Erlenmeyer flask	40	57019-097
	300 ml Erlenmeyer flask	24	57019-098
	500 ml Erlenmeyer flask	24	57019-111
	1L Erlenmeyer flask	12	57019-099
	2L Erlenmeyer flask	12	57018-100
	4L Erlenmeyer flask	6	57019-101
	6L Erlenmeyer flask	4	57019-102
	Separatory funnel (500 ml to 2L)	10	57019-115
	Utility tray	–	57019-112
	18 x 30" Adjustable vessel platform	–	80080-530
	2500 ml Low form culture flask	5	72890-078
	2800 ml Fernbach flask	6	57019-075
36 x 24" (91 x 60.9 cm)	50 ml Erlenmeyer flask	160	80080-526
	125 ml Erlenmeyer flask	80	57019-217
	250 ml Erlenmeyer flask	70	57019-218
	500 ml Erlenmeyer flask	40	57019-064
	1L Erlenmeyer flask	18	57019-220
	2L Erlenmeyer flask	15	57019-221
	4L Erlenmeyer flask	8	80080-530
	6L Erlenmeyer flask	6	80080-536
	Separatory funnel (500 ml to 2L)	16	57019-262
	2800 ml Fernbach flask	8	80080-532

Utility tray
Model No. 57018-906

11 x 13" Adjustable vessel platform
Model No. 72890-186

18 x 18", 50 ml Erlenmeyer flask platform
Model No. 57019-391

Dedicated separatory funnel platform
Model No. 57019-506

30 x 18" Dual tiered platforms
Model No. 72890-048 (See accessories table on page 10)

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

- Space saving shaker designed for 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

- Insect cell culture
- Extraction procedures
- General mixing
- Staining and destaining
- Hybridizations
- Solubility studies
- Bacterial suspensions
- Washing procedures
- Protein expression

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)			Shipping weight lb. (kg)	Model. No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 4450 – Incubated shaker											
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)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	**47751-958**	**47751-960**
MaxQ 4450 – Incubated shaker with cooling coil (requires chiller)											
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)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	**80079-888**	**80079-890**

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.	13 x 11" (33 x 28 cm)	Platform without clamps	**57018-990**
	Dedicated platforms Clamps come installed to provide maximum capacity.	13 x 11" (33 x 28 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
		13 x 11" (33 x 28 cm)
Flask clamp starter kit, includes (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97040-488	
Microplate/deep-well plate	47742-478	5
10 ml Erlenmeyer flask	57019-670	60
25 ml Erlenmeyer flask	57019-672	60
50 ml Erlenmeyer flask	57019-674	30
125 ml Erlenmeyer flask	57019-676	13
250 ml Erlenmeyer flask	57019-678	9
300 ml Erlenmeyer flask	57019-680	7
500 ml Erlenmeyer flask	57019-682	6
1L Erlenmeyer flask	67019-684	4
2500 ml Low form culture flask	57019-692	1
Adhesive flask mat, 9 x 9" (23 x 23 cm)	97007-248[3]	–
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	80080-552	3
14–16 mm, orange, 6 x 12 array	80080-556[1]	2
17–20 mm, white, 4 x 10 array	80080-556	3
21–25 mm, blue, 4 x 10 array	80080-564	2
26–30 mm, green, 3 x 8 array	80080-568[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	80080-572	2
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	80080-554	6
14–16 mm, orange, 6 x 6 array	80080-558[1]	4
17–20 mm, white, 4 x 5 array	80080-562	4
21–25 mm, blue, 4 x 4 array	80080-566	4
26–30 mm, green, 3 x 3 array	80080-570[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	80080-574	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.
13 x 11" (33 x 28 cm)	10 ml Erlenmeyer flask	60	72890-180
	25 ml Erlenmeyer flask	30	57018-935
	50 ml Erlenmeyer flask	30	57018-936
	125 ml Erlenmeyer flask	15	57018-957
	250 ml Erlenmeyer flask	10	57018-980
	500 ml Erlenmeyer flask	6	57018-902
	1L Erlenmeyer flask	4	57018-982

Unwire test tube rack clamps

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

- Insect cell culture
- Extraction procedures
- General mixing
- Staining and destaining
- Hybridizations
- Solubility studies
- Plasmid production
- Bacterial suspensions
- Washing procedures
- Protein expression

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)			Shipping weight Lb. (kg)	Model. No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 4000 – Large incubated benchtop shaker											
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)	**47742-756** (60 Hz)	47742-884
MaxQ 4000 – Large incubated high temperature benchtop shaker											
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)	**47742-760**	47742-888
MaxQ 4000 – Large incubated and refrigerated benchtop shaker											
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)	**47742-764** (60 Hz)	47742-890 (50 Hz)

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	**57018-913**
	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 (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97040-488	
Microplate/deep-well plate	47742-478	10
10 ml Erlenmeyer flask	57019-670	113
25 ml Erlenmeyer flask	57019-672	64
50 ml Erlenmeyer flask	57019-674	32
125 ml Erlenmeyer flask	57019-676	32
250 ml Erlenmeyer flask	57019-678	16
300 ml Erlenmeyer flask	57019-680	16
500 ml Erlenmeyer flask	57019-682	16
1L Erlenmeyer flask	67019-684	9
2L Erlenmeyer flask	57019-686	6
2500 ml low form culture flask	57019-692	1
2800 ml Fernbach flask	57019-696	4
Adhesive flask mat, 9 x 9" (23 x 23cm)	97007-248[3]	–
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	80080-552	6
14–16 mm, orange, 6 x 12 array	80080-556[1]	4
17–20 mm, white, 4 x 10 array	80080-556	5
21–25 mm, blue, 4 x 10 array	80080-564	3
26–30 mm, green, 3 x 8 array	80080-568[2]	4
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	80080-572	5
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	80080-554	12
14–16 mm, orange, 6 x 6 array	80080-558[1]	6
17–20 mm, white, 4 x 5 array	80080-562	8
21–25 mm, blue, 4 x 4 array	80080-566	6
26–30 mm, green, 3 x 3 array	80080-570[2]	9
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	80080-574	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	72890-138
	25 ml Erlenmeyer flask	64	57019-390
	50 ml Erlenmeyer flask	64	57019-391
	125 ml Erlenmeyer flask	32	57019-392
	250 ml Erlenmeyer flask	25	57019-439
	300 ml Erlenmeyer flask	16	57019-472
	500 ml Erlenmeyer flask	16	57019-440
	1L Erlenmeyer flask	9	57019-473
	2L Erlenmeyer flask	6	57019-474
	10 ml beaker	152	72890-118
	20 ml beaker	104	72890-116
	30 ml beaker	104	72890-114
	100 ml beaker	44	72890-112
	250 ml beaker	25	72890-110
	400 ml beaker	25	57019-500
	600 ml beaker	16	72890-108
	Utility tray	–	57019-505
	18" x 18" adjustable vessel platform without bottom	–	97049-312

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

- General cell culture
- Solubility studies
- Extraction procedures
- General mixing
- Protein production
- Bacteria, yeast culture
- Plasmid production

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)			Shipping weight lb. (kg)	Model. No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 5000 – large incubated floor shaker											
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)	**47742-898**	47742-900
MaxQ 5000 – large incubated and refrigerated floor shaker											
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)	**47742-906**	47742-908

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	**57019-020**
	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 (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97040-488	
Microplate/deep-well plate	47742-478	18
10 ml Erlenmeyer flask	57019-670	112
25 ml Erlenmeyer flask	57019-672	112
50 ml Erlenmeyer flask	57019-674	112
125 ml Erlenmeyer flask	57019-676	44
250 ml Erlenmeyer flask	57019-678	24
300 ml Erlenmeyer flask	57019-680	20
500 ml Erlenmeyer flask	57019-682	18
1L Erlenmeyer flask	67019-684	12
2L Erlenmeyer flask	57019-686	6
4L Erlenmeyer flask	57019-688	6
6L Erlenmeyer flask	57019-690	3
2500 ml low form culture flask	57019-692	3
2800 ml Fernbach flask	57019-696	5
Adhesive flask mat, 9 x 9" (23 x 23 cm)	97007-248[3]	–
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	80080-552	13
14–16 mm, orange, 6 x 12 array	80080-556[1]	7
17–20 mm, white, 4 x 10 array	80080-556	9
21–25 mm, blue, 4 x 10 array	80080-564	7
26–30 mm, green, 3 x 8 array	80080-568[2]	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	80080-572	8
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	80080-554	21
14–16 mm, orange, 6 x 6 array	80080-558[1]	10
17–20 mm, white, 4 x 5 array	80080-562	18
21–25 mm, blue, 4 x 4 array	80080-566	10
26–30 mm, green, 3 x 3 array	80080-570[2]	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	80080-574	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	72890-082
	25 ml Erlenmeyer flask	112	72890-080
	50 ml Erlenmeyer flask	112	57019-095
	125 ml Erlenmeyer flask	56	57019-096
	250 ml Erlenmeyer flask	40	57019-097
	300 ml Erlenmeyer flask	24	57019-098
	500 ml Erlenmeyer flask	24	57019-111
	1L Erlenmeyer flask	12	57019-099
	2L Erlenmeyer flask	12	57018-100
	4L Erlenmeyer flask	6	57019-101
	6L Erlenmeyer flask	4	57019-102
	2500 ml low form culture flask	5	72890-078
	2800 ml Fernbach flask	6	57019-075
	Utility tray	–	57019-112
	Adjustable vessel platform	–	80080-530

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)	80080-534
Gassing manifold with 8 outlets (customer installed)	97049-320
Gassing manifold with 16 outlets (customer installed)	97049-322

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.

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

- Bacteria and yeast culture
- Solubility studies
- Extraction procedures
- General mixing
- Staining and destaining
- Hybridizations
- Diagnostic tests
- Washing procedures
- Protein production
- Plasmid production

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)			Shipping weight Lb. (kg)	Model. No. 120V	Model No. 240V
						L	W	H			
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)	**89032-314 (50/60 Hz)**	**89032-316 (50/60 Hz)**
	15–300 ±1 (stacked)					33 (83.8)	27 (69.9)	81 (205.8)			
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)	**89032-318 (60 Hz)**	**89032-320 (50 Hz)**
	15–300 ±1 (stacked)					33 (83.8)	27 (69.9)	81 (205.8)			

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	57018-913
		18 x 18" (45.7 x 45.7 cm)	Dual stacked platform without clamps	97040-486
	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 (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97040-488	
Microplate/deep-well plate	47742-478	10
10 ml Erlenmeyer flask	57019-670	113
25 ml Erlenmeyer flask	57019-672	64
50 ml Erlenmeyer flask	57019-674	32
125 ml Erlenmeyer flask	57019-676	32
250 ml Erlenmeyer flask	57019-678	16
300 ml Erlenmeyer flask	57019-680	16
500 ml Erlenmeyer flask	57019-682	16
1L Erlenmeyer flask	67019-684	9
2L Erlenmeyer flask	57019-686	6
4L Erlenmeyer flask	57019-688	4
6L Erlenmeyer flask	57019-690	2
2500 ml low form culture flask	57019-692	1
2800 ml Fernbach flask	57019-696	4
Adhesive flask mat, 9 x 9" (23 x 23 cm)	97007-248[3]	–
Test tube rack – full size		
10–13 mm, red, 6 x 12 array	80080-552	6
14–16 mm, orange, 6 x 12 array	80080-556[1]	4
17–20 mm, white, 4 x 10 array	80080-556	5
21–25 mm, blue, 4 x 10 array	80080-564	3
26–30 mm, green, 3 x 8 array	80080-568[2]	4
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	80080-572	5
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	80080-554	12
14–16 mm, orange, 6 x 6 array	80080-558[1]	6
17–20 mm, white, 4 x 5 array	80080-562	8
21–25 mm, blue, 4 x 4 array	80080-566	6
26–30 mm, green, 3 x 3 array	80080-570[2]	9
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	80080-574	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	72890-138
	25 ml Erlenmeyer flask	64	57019-390
	50 ml Erlenmeyer flask	64	57019-391
	125 ml Erlenmeyer flask	32	57019-392
	250 ml Erlenmeyer flask	25	57019-439
	300 ml Erlenmeyer flask	16	57019-472
	500 ml Erlenmeyer flask	16	57019-440
	1L Erlenmeyer flask	9	57019-473
	2L Erlenmeyer flask	6	57019-474
	10 ml beaker	152	72890-118
	20 ml beaker	104	72890-116
	30 ml beaker	104	72890-114
	100 ml beaker	44	72890-112
	250 ml beaker	25	72890-110
	400 ml beaker	25	57019-500
	600 ml beaker	16	72890-108
	Utility tray	–	57019-505
	Adjustable vessel platform without bottom	–	97049-312

Optional accessories

MaxQ 6000	Model No.
Adapter set for stacking two platforms	72890-182

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
- Extractions
- Protein production
- Growth of insect cells
- Hybridizations
- DNA production

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)			Shipping weight Lb. (kg)	Model. No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 8000 – stackable incubated shaker											
Digital	25–400 ±1	1.0 (2.54)	71 (32)	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)/ 23.8 (60.5)	46.5 (118.1)/ 33.4 (84.8)	25 (63.5)/ 11.8 (30)	658 (298.5)	**97011-462 (60 Hz)**	**97011-464 (50 Hz)**
MaxQ 8000 – stackable incubated and refrigerated shaker											
Digital	25–400 ±1	1.0 (2.54)	71 (32)	Ambient -5° or 20° to 60°C ±0.15°C at 37°C in flask	±0.3°C at 37°C in flask	33.3 (84.6)/ 23.8 (60.5)	56.5 (143.5)/ 33.4 (84.8)	25 (63.5)/ 11.8 (30)	723 (328)	**97011-466 (60 Hz)**	**97011-468 (50 Hz)**

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	97006-440
	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. 24
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 (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97006-456	–
Microplate	97006-460	18
25 ml Erlenmeyer flask	97006-442	91
50 ml Erlenmeyer flask	97006-444	91
125 ml Erlenmeyer flask	97006-446	39
250/300 ml Erlenmeyer flask	97006-448	30
500 ml Erlenmeyer flask	97006-450	24
1L Erlenmeyer flask	97006-452	12
2L Erlenmeyer flask	97006-454	11
2800 ml Fernbach flask	97006-458	6
Adhesive flask mat, 9 x 9" (23 x 23 cm)	97007-248[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	97006-484	
Universal test tube rack with holder (must purchase desired test tube rack in addition to holder)		
Universal adjustable angle test tube rack holder	89214-514	–
Test tube rack, 72 places, 10–13 mm (3–7 ml) tubes	89214-520[2]	5 angled
Test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	89214-522[2]	4 angled
Test tube rack, 40 places, 21–25 mm (30 ml) tubes	89214-502[2]	4 angled
Test tube rack, 24 places, 26–30 mm (50 ml) tubes	89214-504[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	89214-506[4]	5 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	89214-508[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 21–25 mm (30 ml) tubes	89214-510[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 24 places, 26–30 mm (50 ml) tubes	89214-512[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 97006-452)	97014-862	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)	89214-518	7 racks, 63 plates
Microplate rack insert for deep-well plates, 2 shelves (Requires universal adjustable angle test tube rack holder)	89214-516[1]	5 racks, 30 plates
Replacement screws		
Replacement screws (50) #10-24 x 5/16" countersink Phillips headscrews for mounting tube holders to platform	97014-846	–

[1]Shaken at a 15 degree angle   [2]Requires 89214-514 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.

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	97006-464
	50 ml Erlenmeyer flask	91	97006-466
	125 ml Erlenmeyer flask	61	97006-468
	250/300 ml Erlenmeyer flask	30	97006-470
	250/300 ml Erlenmeyer flask	40	97006-472
	500 ml Erlenmeyer flask	24	97006-474
	1L Erlenmeyer flask	15	97006-476
	2L Erlenmeyer flask	12	97006-478
	2800 ml Fernbach flask	6	97006-480

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		97006-436
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		97006-438
Door glass cover prevents light from entering through window		97006-482
7 day recorder 0–100°C, 6"	115V, 50/60 Hz	97006-462
	220V, 50/60 Hz	97014-868
Sensaphone™ telephone dialing system alarm system that will notify user via the telephone	Four channel, 120V/60 Hz	89200-298
	Eight channel, 120V/60 Hz	89200-300

Microplate rack inserts

Our microplate rack inserts are available for the dedicated adjustable angle test tube rack holder (50 ml)-No. 89214-512 and the universal adjustable angle test tube rack holder-No. 89214-514. 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.

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.

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
- Growth of bacteria or yeast
- Staining and destaining
- Washing procedures
- Hybridization
- Protein production
- DNA production
- Insect cell culture

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)

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)			Chamber capacity gallons (L)	Shipping weight lb. (kg)	Model. No. 120V, 50/60 Hz
						L	W	H			
MaxQ 7000 – water bath shaker											
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)	47742-918

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.	13 x 11" (33 x 28 cm)	Platform without clamps	57019-306
	Dedicated platforms Clamps come installed to provide maximum capacity.	13 x 11" (33 x 28 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
		13 x 11" (33 x 28 cm)
Flask clamp starter kit, includes (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97040-488	
Microplate/deep-well plate	47742-478	5
10 ml Erlenmeyer flask	57019-670	60
25 ml Erlenmeyer flask	57019-672	60
50 ml Erlenmeyer flask	57019-674	30
125 ml Erlenmeyer flask	57019-676	13
250 ml Erlenmeyer flask	57019-678	9
300 ml Erlenmeyer flask	57019-680	7
500 ml Erlenmeyer flask	57019-682	6
1L Erlenmeyer flask	67019-684	4
2L Erlenmeyer flask	57019-686	1
4L Erlenmeyer flask	57019-688	1
6L Erlenmeyer flask	57019-690	1
2500 ml low form culture flask	57019-692	1
2800 ml Fernbach flask	57019-696	1
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	80080-552	3
14–16 mm, orange, 6 x 12 array	80080-556[1]	2
17–20 mm, white, 4 x 10 array	80080-556	3
21–25 mm, blue, 4 x 10 array	80080-564	2
26–30 mm, green, 3 x 8 array	80080-568[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	80080-572	2
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	80080-554	6
14–16 mm, orange, 6 x 6 array	80080-558[1]	4
17–20 mm, white, 4 x 5 array	80080-562	4
21–25 mm, blue, 4 x 4 array	80080-566	4
26–30 mm, green, 3 x 3 array	80080-570[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	80080-574	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.
13 x 11" (33 x 28 cm)	10 ml Erlenmeyer flask	63	72890-038
	25 ml Erlenmeyer flask	32	57019-280
	50 ml Erlenmeyer flask	32	57019-176
	125 ml Erlenmeyer flask	16	57019-177
	250 ml Erlenmeyer flask	9	57019-199
	300 ml Erlenmeyer flask	8	72890-036
	500 ml Erlenmeyer flask	6	57019-279
	1L Erlenmeyer flask	4	57019-179
	2L Erlenmeyer flask	2	57019-180
	10 ml beaker	76	72890-016
	20 ml beaker	52	72890-014
	30 ml beaker	52	72890-012
	100 ml beaker	22	72890-010
	Utility tray	–	57019-197

Optional accessories

MaxQ 7000	Model No.
Cooling coil, customer installed Needed for near-ambient temperature and below	82003-336[3]
Gable cover, stainless-steel For temperatures up to 90°C	82003-338
Gable cover, Plexiglas® For temperatures up to 65°C	82003-340
Auxiliary platform suspension arms Used for rapid platform changes	82003-344
Movable dolly For under lab bench operation	82003-346
Mobile cart	82003-348

[3] This accessory requires a circulating chiller

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.

Even when the shaker is fully loaded with samples, outstanding temperature uniformity is provided due to laminar airflow and a HEPA filtration system. 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.

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

- General cell culture
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing

- Staining
- Destaining
- Washing procedures
- Hybridizations

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)			Shipping weight lb. (kg)	Model No. 115V/230V, 50/60 Hz (dual voltage)	Model No. 230V, 50/60 Hz
				L	W	H			
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)	**89214-528**	**SHKE416HP-1CE**

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	89214-392
		24" x 18" (60.9 x 45.7 cm)	Platform without clamps	89214-398
	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	89214-394
		36" x 24" (91.4 x 60.9 cm)	Platform without clamps	89214-396
	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

*When using a 24" X 36" platform, a 194012 counterweight kit must be installed on Orbital Shaker model 430. This must be done as a FACTORY INSTALLATION or by a QUALIFIED INSTALLER in the field.

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		**MaxQ 430 HP**	
		18" x 18" (45.7 x 45.7 cm)	24" x 18" (60.9 x 45.7 cm)	29.5" x 18" (74.9 x 45.7 cm)	36" x 24" (91.4 x 60.9 cm)
Flask clamp starter kit, includes (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97006-456				
Microplate / deepwell plate	97006-460	10	16	18	31
25 ml Erlenmeyer flask	97006-442	49	80	91	150
50 ml Erlenmeyer flask	97006-444	49	80	91	150
125 ml Erlenmeyer flask	97006-446	25	40	39	75
250/300 ml Erlenmeyer flask	97006-448	18	25	30	55
500 ml Erlenmeyer flask	97006-450	16	20	24	30
1L Erlenmeyer flask	97006-452	8	12	12	24
2L Erlenmeyer flask	97006-454	6	8	11	15
4L Erlenmeyer flask	89214-386	4	5	6	11
5L Erlenmeyer flask	89214-390	4	4	6	8
6L Erlenmeyer flask	89214-388	2	4	4	8
2800 ml Fernbach flask	97006-458	4	5	6	11
Adhesive flask mat	97007-248	–	–	–	–
Adjustable test tube racks with holder (includes one test tube rack)					
10–13 mm - 3–7 ml tube rack - 72 place	89214-506	4	6	8	16
16–20 mm - 10–20 ml tube rack - 40 place	89214-508	4	6	7	16
21–25 mm - 30 ml tube rack - 40 place	89214-510	3	5	6	9
26–30 mm - 50 ml tube rack -24 place	89214-512	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	89214-514	–	–	–	–
10–13 mm - 3–7 ml tube rack - 72 place	89214-520	3	4	5	9
16–20 mm - 10–20 ml tube rack - 40 place	89214-522	3	4	5	9
21–25 mm - 30 ml tube rack - 40 place	89214-502	2	3	4	7
26–30 mm - 50 ml tube rack -24 place	89214-504	2	3	4	7
Microplate racks and vial/tube inserts					
Microplate rack for standard plates	89214-518[1]	4 racks, 36 plates	5 racks, 45 plates	7 racks, 63 plates	8 racks, 72 plates
Microplate rack for deepwell plates	89214-516[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	97014-862*	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	97014-864	1	2	3	3
18" x 18" (45.7 x 45.7 cm) utility tray with 0.5" (1.3 cm) rubber pad	97014-866	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.
Quick change platform adapter	89231-974
MagNote wipe-off magnet and pen kit (benchtop models only)	89231-976
Four channel Sensaphone telephone dialing system	89200-298
Eight channel Sensaphone telephone dialing system	89200-300
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	97014-846
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	97006-484

Dedicated platforms with clamps
Maximize capacity by choosing your platform with pre-installed clamps

Platform size	Description	Capacity	Model No.
MaxQ 416 HP			
18" x 18" (45.7 x 45.7 cm)	25 ml Erlenmeyer flask	49	89214-400
	50 ml Erlenmeyer flask	49	89214-402
	125 ml Erlenmeyer flask	25	89214-404
	125 ml Erlenmeyer flask*	36	89214-476
	250/300 ml Erlenmeyer flask	18	89214-406
	250/300 ml Erlenmeyer flask*	25	89214-478
	500ml Erlenmeyer flask	16	89214-408
	1L Erlenmeyer flask	8	89214-410
	2L Erlenmeyer flask	6	89214-412
	4L Erlenmeyer flask	4	89214-470
	5L Erlenmeyer flask	4	89214-484
	6L Erlenmeyer flask	2	89214-472
	2800ml Fernbach flask	4	89214-474
24" x 18" (60.9 x 45.7 cm)	25 ml Erlenmeyer flask	80	89214-450
	50 ml Erlenmeyer flask	80	89214-452
	125 ml Erlenmeyer flask	40	89214-454
	250/300 ml Erlenmeyer flask	25	89214-482
	250/300 ml Erlenmeyer flask*	35	89214-456
	500 ml Erlenmeyer flask	20	89214-458
	1L Erlenmeyer flask	12	89214-460
	2L Erlenmeyer flask	8	89214-462
	4L Erlenmeyer flask	5	89214-464
	5L Erlenmeyer flask	4	89214-488
	6L Erlenmeyer flask	4	89214-466
	2800 ml Fernbach flask	5	89214-468
MaxQ 430 HP			
29.5" x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer flask	91	89214-414
	50 ml Erlenmeyer flask	91	89214-416
	125 ml Erlenmeyer flask	61	89214-418
	250/300 ml Erlenmeyer flask	30	89214-480
	250/300 ml Erlenmeyer flask*	40	89214-420
	500 ml Erlenmeyer flask	24	89214-422
	1L Erlenmeyer flask	15	89214-424
	2L Erlenmeyer flask	12	89214-426
	4L Erlenmeyer flask	6	89214-428
	5L Erlenmeyer flask	6	89214-486
	6L Erlenmeyer flask	4	89214-430
	2800 ml Fernbach flask	6	89214-432
36" x 24" (91.4 x 60.9 cm)	25 ml Erlenmeyer flask	150	89214-492
	50 ml Erlenmeyer flask	150	89214-494
	125 ml Erlenmeyer flask	96	89214-434
	250/300 ml Erlenmeyer flask*	70	89214-436
	500 ml Erlenmeyer flask	30	89214-438
	1L Erlenmeyer flask	24	89214-440
	2L Erlenmeyer flask	15	89214-442
	4L Erlenmeyer flask	11	89214-444
	5L Erlenmeyer flask	8	89214-490
	6L Erlenmeyer flask	8	89214-446
	2800 ml Fernbach flask	11	89214-448

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

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

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)			Shipping weight Lb. (kg)	Model No. 115V/230V, 50/60 Hz (dual voltage)
						L	W	H		
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)	89214-530

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	89214-392
	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) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97006-456	
Microplate / deepwell plate	97006-460	10
25 ml Erlenmeyer flask	97006-442	49
50 ml Erlenmeyer flask	97006-444	49
125 ml Erlenmeyer flask	97006-446	25
250/300 ml Erlenmeyer flask	97006-448	18
500 ml Erlenmeyer flask	97006-450	16
1L Erlenmeyer flask	97006-452	8
2L Erlenmeyer flask	97006-454	6
2800 ml Fernbach flask	97006-458	4
Adhesive flask mat	97007-248	–
Adjustable test tube racks with holder (includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	89214-506	4
16–20 mm - 10–20 ml tube rack - 40 place	89214-508	4
21–25 mm - 30 ml tube rack - 40 place	89214-510	3
26–30 mm - 50 ml tube rack -24 place	89214-512	3
Universal test tube racks with holder (must purchase desired test tube rack in addition to holder)		
Universal adjustable tube rack holder	89214-514	–
10–13 mm - 3–7 ml tube rack - 72 place	89214-520	3
16–20 mm - 10–20 ml tube rack - 40 place	89214-522	3
21–25 mm - 30 ml tube rack - 40 place	89214-502	2
26–30 mm - 50 ml tube rack -24 place	89214-504	2
Microplate racks and vial/tube inserts		
Microplate rack for standard plates (3 shelves)	89214-518	4 racks, 36 plates
Microplate rack for deepwell plates (2 shelves)	89214-516	3 racks, 18 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	97014-862*	8
Universal utility trays		
9" x 18" (22.9 x 45.7 cm) utility tray with 0.5" (1.3 cm) rubber pad	97014-864	1
18" x 18" (45.7 x 45.7 cm) utility tray with 0.5" (1.3 cm) rubber pad	97014-866	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.

Platform size	Description	Capacity	Model No.
Clamps come installed to provide maximum capacity			
18" x 18" (45.7 x 45.7 cm)	25 ml Erlenmeyer flask	49	89214-400
	50 ml Erlenmeyer flask	49	89214-402
	125 ml Erlenmeyer flask	25	89214-404
	125 ml Erlenmeyer flask	36	89214-476
	250/300 ml Erlenmeyer flask	18	89214-406
	250/300 ml Erlenmeyer flask	25	89214-478
	500 ml Erlenmeyer flask	16	89214-408
	1L Erlenmeyer flask	8	89214-410
	2L Erlenmeyer flask	6	89214-412
	2800 ml Fernbach flask	4	89214-474

Miscellaneous accessories

MaxQ HP 420	Model No.
Dual-stack benchtop shaker kit, includes kneewell side mount and orbital shaker stand	89214-496
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)	89214-500
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)	89214-498
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)	89231-970
Roller base for drawer assembly, adds 3" (7.6 cm) to height: 9.4" W x 3.6" H x 21.9" D (23.9 cm x 9.1 cm x 55.6 cm)	89231-972
Gassing manifold (one gas)	89214-384
Free-standing 0–100°C, 6", seven day chart recorder, 115V, 60 Hz	97006-462
Free-standing 0–100°C, 6", seven day chart recorder, 220V, 50 Hz	97014-868
Replacement chart paper, 50 per box	97014-870
Quick change platform adapter	89231-974
MagNote wipe-off magnet and pen kit (benchtop models only)	89231-976
Four channel Sensaphone telephone dialing system	89200-298
Eight channel Sensaphone telephone dialing system	89200-300
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	97014-846
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	97006-484

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

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

- Insect, bacteria, yeast culture
- Extractions
- Plasmid production
- Solubility studies
- Hybridizations
- Staining and destaining
- Protein production

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 480 (481) 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)			Shipping weight Lb. (kg)	Model No. 120V, 60 Hz	Model No. 230V, 500 Hz
						L	W	H			
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)	**89214-534**	**89214-536**
MaxQ 480 / 481 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)	**89214-538**	**89214-540**

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

MaxQ 435 / 436 / 480 / 481 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	89214-394
	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**
Counter-balanced Assembly	When using a 24" x 36" platform, a 194012 counterweight kit must be installed on Orbital Shaker model 430. This must be done as a FACTORY INSTALLATION or by a QUALIFIED INSTALLER in the field.	36" x 24" (91.4 x 60.9 cm)		194012

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 / 480 / 481 HP 29.5" x 18" (74.9 x 45.7 cm)
Flask clamp starter kit, includes (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	97006-456	
Microplate / deepwell plate	97006-460	18
25 ml Erlenmeyer flask	97006-442	91
50 ml Erlenmeyer flask	97006-444	91
125 ml Erlenmeyer flask	97006-446	39
250/300 ml Erlenmeyer flask	97006-448	30
500 ml Erlenmeyer flask	97006-450	24
1L Erlenmeyer flask	97006-452	12
2L Erlenmeyer flask	97006-454	11
4L Erlenmeyer flask	89214-386	6
5L Erlenmeyer flask	89214-390	5
6L Erlenmeyer flask	89214-388	4
2800 ml Fernbach flask	97006-458	6
Adhesive flask mat	97007-248	–
Adjustable test tube racks with holder (includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	89214-506	4
16–20 mm - 10–20 ml tube rack - 40 place	89214-508	4
21–25 mm - 30 ml tube rack - 40 place	89214-510	3
26–30 mm - 50 ml tube rack -24 place	89214-512	3
Universal test tube racks with holder (must purchase desired test tube rack in addition to holder)		
Universal adjustable tube rack holder	89214-514	–
10–13 mm - 3–7 ml tube rack - 72 place	89214-520	3
16–20 mm - 10–20 ml tube rack - 40 place	89214-522	3
21–25 mm - 30 ml tube rack - 40 place	89214-502	2
26–30 mm - 50 ml tube rack -24 place	89214-504	2
Microplate racks and vial/tube inserts		
Microplate rack for standard plates (3 shelves)	89214-518	7 racks, 63 plates
Microplate rack for deepwell plates (2 shelves)	89214-516	5 racks, 30 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	97014-862*	12
Universal utility trays		
9" x 18" (22.9 x 45.7 cm) utility tray with 0.5" (1.3 cm) rubber pad	97014-864	1
18" x 18" (45.7 x 45.7 cm) utility tray with 0.5" (1.3 cm) rubber pad	97014-866	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.

Platform Size	Description	Capacity	Model No.
Clamps come installed to provide maximum capacity			
29.5" x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer flask	91	89214-414
	50 ml Erlenmeyer flask	91	89214-416
	125 ml Erlenmeyer flask	61	89214-418
	250/300 ml Erlenmeyer flask	30	89214-480
	250/300 ml Erlenmeyer flask	40	89214-420
	500 ml Erlenmeyer flask	24	89214-422
	1L Erlenmeyer flask	15	89214-424
	2L Erlenmeyer flask	12	89214-426
	4L Erlenmeyer flask	6	89214-428
	5L Erlenmeyer flask	5	89214-486
	6L Erlenmeyer flask	4	89214-430
	2800 ml Fernbach flask	6	89214-432

Miscellaneous accessories

MaxQ HP 435, 436, 480, 481	Model No.
Removable shelf	89214-382
Gassing manifold (one gas)	89214-384
0°C to 60°C, seven day chart recorder, 115V, 50/60 Hz	89231-978
Replacement chart paper, 50 per box	89231-980
HEPA filter replacement	89214-526
Quick change platform adapter	89231-974
MagNote wipe-off magnet and pen kit (floor models only)	89231-984
Four channel Sensaphone telephone dialing system	89200-298
Eight channel Sensaphone telephone dialing system	89200-300
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	97014-846
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	97006-484

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Hybridization

Mixing blood samples

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Protein production

Solubility studies

Staining and destaining

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