Thermo Scientific MaxQ Shakers

Reliability. Simplicity.
Flexibility.

Fisher HealthCare

Thermo
SCIENTIFIC

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 Large capacity applications		MaxQ 6000 Stackable, space-savings		MaxQ 8000 Maximum flexibility, stackable design		MaxQ 7000 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.

[1]Achievable maximum speeds may be dependent on load

Thermo Scientific
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

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

	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, 50/60Hz	Model No. 240V, 50/60Hz
				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)	**11675200**	**11-676-090**
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)	**11675212**	**11-676-091**
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)	**11675201**	**11-676-093**

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	142722H[1]
		13 x 11" (33 x 28 cm)	Dual stacked platform without clamps	11675402
		18 x 18" (45.7 x 45.7 cm)	Platform without clamps	142722J[1]
		18 x 18" (45.7 x 45.7 cm)	Dual stacked platform without clamps	11675474
		24 x 18" (60.9 x 45.7 cm)	Platform without clamps	11676001
	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 142722H and 142722J only)			11675403
MaxQ 3000				**Cat. 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	142728F
		30 x 18" (76 x 45.7 cm)	Dual stacked platform without clamps	11675473
		36 x 24" (91 x 60.9 cm)	Platform without clamps	22262747
	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	11675475					
Microplate/deep-well plate	14512314	5	10	15	18	29
10 ml Erlenmeyer flask	14512315	60	113	157	112	160
25 ml Erlenmeyer flask	22262769	60	64	80	112	160
50 ml Erlenmeyer flask	11675476	30	32	40	112	160
125 ml Erlenmeyer flask	142724AA	13	32	40	44	80
250 ml Erlenmeyer flask	142724B	9	16	24	24	40
300 ml Erlenmeyer flask	14512316	7	16	20	20	40
500 ml Erlenmeyer flask	22256959	6	16	20	18	40
1L Erlenmeyer flask	142724F	4	9	10	12	21
2L Erlenmeyer flask	22262773	1	6	5	6	11
4L Erlenmeyer flask	14512317	1	4	4	6	11
6L Erlenmeyer flask	14512318	1	2	3	3	6
2500 ml low form culture flask	14512319	1	1	2	3	6
2800 ml Fernbach flask	14512320	1	4	4	5	8
Adhesive flask mat, 9 x 9" (23 x 23 cm)	1368750[3]	–	–	–	–	–
Test tube racks – full size						
10–13 mm, red, 6 x 12 array	14512107	3	6	8	13	16
14–16 mm, orange, 6 x 12 array	14512109[1]	2	4	6	7	10
17–20 mm, white, 4 x 10 array	14512111	3	5	6	9	14
21–25 mm, blue, 4 x 10 array	14512113	2	3	4	7	7
26–30 mm, green, 3 x 8 array	14512115[2]	2	4	6	7	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14512117	2	5	6	8	10
Test tube racks – half size						
10–13 mm, red, 6 x 6 array	14512108	6	12	15	21	25
14–16 mm, orange, 6 x 6 array	14512110[1]	4	6	8	10	12
17–20 mm, white, 4 x 5 array	14512112	4	8	13	18	20
21–25 mm, blue, 4 x 4 array	14512114	4	6	9	10	15
26–30 mm, green, 3 x 3 array	14512116[2]	6	9	12	15	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14512118	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"	10 ml Erlenmeyer flask	60	11675404
(28 x 33 cm)	25 ml Erlenmeyer flask	30	11675405
	50 ml Erlenmeyer flask	30	11675406
	125 ml Erlenmeyer flask	15	11675407
	250 ml Erlenmeyer flask	10	11675409
	500 ml Erlenmeyer flask	6	11675411
	1L Erlenmeyer flask	4	11676045
	2L Erlenmeyer flask	4	11675412
	Utility tray	–	1427857A
	11 x 13" adjustable vessel platform	–	11675408
	5 Tier, holds platelet bags (10 x 10")	5 bags	22034760
18 x 18"	10 ml Erlenmeyer flask	113	11675413
(45.7 x 45.7 cm)	25 ml Erlenmeyer flask	64	11675414
	50 ml Erlenmeyer flask	64	11675415
	125 ml Erlenmeyer flask	32	142724A
	250 ml Erlenmeyer flask	25	11675425
	300 ml Erlenmeyer flask	16	11675426
	500 ml Erlenmeyer flask	16	11675428
	1L Erlenmeyer flask	9	11675429
	2L Erlenmeyer flask	5	11675430
	Separatory funnel (500 ml to 2L)	3	14512311
	Utility tray	–	11675424
	18 x 18" adjustable vessel platform without bottom for MaxQ 4000 and 6000 series shakers	–	11675427
	18 x 18" adjustable vessel platform with bottom for MaxQ 2000 shaker	–	11675410
	10 ml beaker	152	11675416
	20 ml beaker	104	11675417
	30 ml beaker	104	11675418
	100 ml beaker	44	11675419
	250 ml beaker	25	11675420
	400 ml beaker	25	11675422
	600 ml beaker	16	11675423

MaxQ 3000 Shaker

Clamps come installed to provide maximum capacity			
Platform size		Capacity	Model No.
30 x 18"	10 ml Erlenmeyer flask	112	11675431
(76 x 45.7 cm)	25 ml Erlenmeyer flask	112	11675436
	50 ml Erlenmeyer flask	112	11675437
	125 ml Erlenmeyer flask	56	11675438
	250 ml Erlenmeyer flask	40	11675441
	300 ml Erlenmeyer flask	24	11675449
	500 ml Erlenmeyer flask	24	11675454
	1L Erlenmeyer flask	12	11675455
	2L Erlenmeyer flask	12	11675456
	4L Erlenmeyer flask	6	11675432
	6L Erlenmeyer flask	4	11675433
	Separatory funnel (500 ml to 2L)	10	11675440
	Utility tray	–	11675439
	18 x 30" Adjustable vessel platform	–	11675453
	2500 ml Low form culture flask	5	11675434
	2800 ml Fernbach flask	6	11675435
36 x 24"	50 ml Erlenmeyer flask	160	11675442
(91 x 60.9 cm)	125 ml Erlenmeyer flask	80	11675443
	250 ml Erlenmeyer flask	70	11675444
	500 ml Erlenmeyer flask	40	11675445
	1L Erlenmeyer flask	18	11675446
	2L Erlenmeyer flask	15	11675447
	4L Erlenmeyer flask	8	11675448
	6L Erlenmeyer flask	6	11675450
	Separatory funnel (500 ml to 2L)	16	11675457
	2800 ml Fernbach flask	8	11675452

Utility tray
Model No. 1427857A

11 x 13" Adjustable vessel platform
Model No. 11675408

18 x 18", 50 ml Erlenmeyer flask platform
Model No. 11675415

Dedicated separatory funnel platform
Model No. 14512311

30 x 18" Dual tiered platforms
Model No. 11675473 (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, 50/60Hz	Model No. 240V, 50/60Hz
						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)	**11675202**	**11-676-097**
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)	**11675471**	**11-676-099**

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	**142722H**
	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	11675475	
Microplate/deep-well plate	14512314	5
10 ml Erlenmeyer flask	14512315	60
25 ml Erlenmeyer flask	22262769	60
50 ml Erlenmeyer flask	11675476	30
125 ml Erlenmeyer flask	142724AA	13
250 ml Erlenmeyer flask	142724B	9
300 ml Erlenmeyer flask	14512316	7
500 ml Erlenmeyer flask	22256959	6
1L Erlenmeyer flask	142724F	4
2500 ml Low form culture flask	14512319	1
Adhesive flask mat, 9 x 9" (23 x 23 cm)	1368750[3]	–
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	14512107	3
14–16 mm, orange, 6 x 12 array	14512109[1]	2
17–20 mm, white, 4 x 10 array	14512111	3
21–25 mm, blue, 4 x 10 array	14512113	2
26–30 mm, green, 3 x 8 array	14512115[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14512117	2
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	14512108	6
14–16 mm, orange, 6 x 6 array	14512110[1]	4
17–20 mm, white, 4 x 5 array	14512112	4
21–25 mm, blue, 4 x 4 array	14512114	4
26–30 mm, green, 3 x 3 array	14512116[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14512118	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	11675404
	25 ml Erlenmeyer flask	30	11675405
	50 ml Erlenmeyer flask	30	11675406
	125 ml Erlenmeyer flask	15	11675407
	250 ml Erlenmeyer flask	10	11675409
	500 ml Erlenmeyer flask	6	11675411
	1L Erlenmeyer flask	4	11676045

Miscellaneous accessories

MaxQ 4450	Model No.
Upright chiller, 6L reservoir, required to achieve temperatures from 20°C to 30°C, 120V	13-874-885
Upright chiller, 6L reservoir, required to achieve temperatures from 20°C to 30°C, 240V	1525101

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, 50/60Hz	Model No. 240V, 50/60Hz
						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)	**11675204 (60Hz)**	**11-676-100**
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)	**11675205**	**11-676-102**
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)	**11675206 (60Hz)**	**11-676-105 (50Hz)**

[1]Achievable maximum speeds may be dependent on load

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	**142722J**
	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	**11675475**	
Microplate/deep-well plate	**14512314**	10
10 ml Erlenmeyer flask	**14512315**	113
25 ml Erlenmeyer flask	**22262769**	64
50 ml Erlenmeyer flask	**11675476**	32
125 ml Erlenmeyer flask	**142724AA**	32
250 ml Erlenmeyer flask	**142724B**	16
300 ml Erlenmeyer flask	**14512316**	16
500 ml Erlenmeyer flask	**22256959**	16
1L Erlenmeyer flask	**142724F**	9
2L Erlenmeyer flask	**22262773**	6
2500 ml low form culture flask	**14512319**	1
2800 ml Fernbach flask	**14512320**	4
Adhesive flask mat, 9 x 9" (23 x 23cm)	**1368750**[3]	–
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	**14512107**	6
14–16 mm, orange, 6 x 12 array	**14512109**[1]	4
17–20 mm, white, 4 x 10 array	**14512111**	5
21–25 mm, blue, 4 x 10 array	**14512113**	3
26–30 mm, green, 3 x 8 array	**14512115**[2]	4
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**14512117**	5
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	**14512108**	12
14–16 mm, orange, 6 x 6 array	**14512110**[1]	6
17–20 mm, white, 4 x 5 array	**14512112**	8
21–25 mm, blue, 4 x 4 array	**14512114**	6
26–30 mm, green, 3 x 3 array	**14512116**[2]	9
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**14512118**	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.

Platform size	Description	Capacity	Model No.
	Clamps come installed to provide maximum capacity		
18 x 18" (45.7 x 45.7 cm)	10 ml Erlenmeyer flask	113	**11675413**
	25 ml Erlenmeyer flask	64	**11675414**
	50 ml Erlenmeyer flask	64	**11675415**
	125 ml Erlenmeyer flask	32	**142724A**
	250 ml Erlenmeyer flask	25	**11675425**
	300 ml Erlenmeyer flask	16	**11675426**
	500 ml Erlenmeyer flask	16	**11675428**
	1L Erlenmeyer flask	9	**11675429**
	2L Erlenmeyer flask	6	**11675430**
	10 ml beaker	152	**11675416**
	20 ml beaker	104	**11675417**
	30 ml beaker	104	**11675418**
	100 ml beaker	44	**11675419**
	250 ml beaker	25	**11675420**
	400 ml beaker	25	**11675422**
	600 ml beaker	16	**11675423**
	Utility tray	–	**11675424**
	18" x 18" adjustable vessel platform without bottom	–	**11675427**

Miscellaneous accessories

MaxQ 4000	Model No.
Gassing manifold with 8 outlets (customer installed)	**11675458**

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

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, 50/60Hz	Model No. 240V, 50/60Hz
						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)	**11675207**	**11-676-107**
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)	**11675208**	**11-676-108**

[1]Achievable maximum speeds may be dependent on load

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	**142728F**
	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	11675475	
Microplate/deep-well plate	14512314	18
10 ml Erlenmeyer flask	14512315	112
25 ml Erlenmeyer flask	22262769	112
50 ml Erlenmeyer flask	11675476	112
125 ml Erlenmeyer flask	142724AA	44
250 ml Erlenmeyer flask	142724B	24
300 ml Erlenmeyer flask	14512316	20
500 ml Erlenmeyer flask	22256959	18
1L Erlenmeyer flask	142724F	12
2L Erlenmeyer flask	22262773	6
4L Erlenmeyer flask	14512317	6
6L Erlenmeyer flask	14512318	3
2500 ml low form culture flask	14512319	3
2800 ml Fernbach flask	14512320	5
Adhesive flask mat, 9 x 9" (23 x 23 cm)	1368750[3]	–
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	14512107	13
14–16 mm, orange, 6 x 12 array	14512109[1]	7
17–20 mm, white, 4 x 10 array	14512111	9
21–25 mm, blue, 4 x 10 array	14512113	7
26–30 mm, green, 3 x 8 array	14512115[2]	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14512117	8
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	14512108	21
14–16 mm, orange, 6 x 6 array	14512110[1]	10
17–20 mm, white, 4 x 5 array	14512112	18
21–25 mm, blue, 4 x 4 array	14512114	10
26–30 mm, green, 3 x 3 array	14512116[2]	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14512118	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	11675431
	25 ml Erlenmeyer flask	112	11675436
	50 ml Erlenmeyer flask	112	11675437
	125 ml Erlenmeyer flask	56	11675438
	250 ml Erlenmeyer flask	40	11675441
	300 ml Erlenmeyer flask	24	11675449
	500 ml Erlenmeyer flask	24	11675454
	1L Erlenmeyer flask	12	11675455
	2L Erlenmeyer flask	12	11675456
	4L Erlenmeyer flask	6	11675432
	6L Erlenmeyer flask	4	11675433
	2500 ml low form culture flask	5	11675434
	2800 ml Fernbach flask	6	11675435
	Utility tray	–	11675439
	Adjustable vessel platform	–	11675453

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.

14

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)	**11675209 (50/60Hz)**	**11-676-110 (50/60Hz)**
	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)	**11675210 (60Hz)**	**11-676-111 (50Hz)**
	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	**142722J**
		18 x 18" (45.7 x 45.7 cm)	Dual stacked platform without clamps	**11675474**
	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	**11675475**	
Microplate/deep-well plate	**14512314**	10
10 ml Erlenmeyer flask	**14512315**	113
25 ml Erlenmeyer flask	**22262769**	64
50 ml Erlenmeyer flask	**11675476**	32
125 ml Erlenmeyer flask	**142724AA**	32
250 ml Erlenmeyer flask	**142724B**	16
300 ml Erlenmeyer flask	**14512316**	16
500 ml Erlenmeyer flask	**22256959**	16
1L Erlenmeyer flask	**142724F**	9
2L Erlenmeyer flask	**22262773**	6
4L Erlenmeyer flask	**14512317**	4
6L Erlenmeyer flask	**14512318**	2
2500 ml low form culture flask	**14512319**	1
2800 ml Fernbach flask	**14512320**	4
Adhesive flask mat, 9 x 9" (23 x 23 cm)	**1368750**[3]	–
Test tube rack – full size		
10–13 mm, red, 6 x 12 array	**14512107**	6
14–16 mm, orange, 6 x 12 array	**14512109**[1]	4
17–20 mm, white, 4 x 10 array	**14512111**	5
21–25 mm, blue, 4 x 10 array	**14512113**	3
26–30 mm, green, 3 x 8 array	**14512115**[2]	4
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**14512117**	5
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	**14512108**	12
14–16 mm, orange, 6 x 6 array	**14512110**[1]	6
17–20 mm, white, 4 x 5 array	**14512112**	8
21–25 mm, blue, 4 x 4 array	**14512114**	6
26–30 mm, green, 3 x 3 array	**14512116**[2]	9
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**14512118**	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	**11675413**
	25 ml Erlenmeyer flask	64	**11675414**
	50 ml Erlenmeyer flask	64	**11675415**
	125 ml Erlenmeyer flask	32	**142724A**
	250 ml Erlenmeyer flask	25	**11675425**
	300 ml Erlenmeyer flask	16	**11675426**
	500 ml Erlenmeyer flask	16	**11675428**
	1L Erlenmeyer flask	9	**11675429**
	2L Erlenmeyer flask	6	**11675430**
	10 ml beaker	152	**11675416**
	20 ml beaker	104	**11675417**
	30 ml beaker	104	**11675418**
	100 ml beaker	44	**11675419**
	250 ml beaker	25	**11675420**
	400 ml beaker	25	**11675422**
	600 ml beaker	16	**11675423**
	Utility tray	–	**11675424**
	Adjustable vessel platform without bottom	–	**11675427**

Optional accessories

MaxQ 6000	Model No.
Adapter set for stacking two platforms	**11675403**

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, 50/60Hz	Model No. 240V, 50/60Hz
						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)	**11676061 (60Hz)**	**11-676-112 (50Hz)**
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)	**11676062 (60Hz)**	**11-676-113 (50Hz)**

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

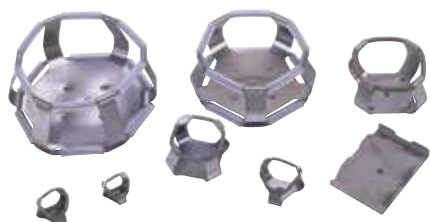| MaxQ 8000				Model. No.
Platforms Choose the platform that best fits your needs.	Universal platforms Maximum flexibility for using a mix of different size labware on a single platform. See universal clamp guide for clamp capacities. Purchase clamps separately.	29.5 x 18" (74.9 x 45.7 cm)	Platform without clamps	**11676021**
	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	**11676020**	–
Microplate	**11676019**	18
25 ml Erlenmeyer flask	**11676011**	91
50 ml Erlenmeyer flask	**11676012**	91
125 ml Erlenmeyer flask	**11676013**	39
250/300 ml Erlenmeyer flask	**11676014**	30
500 ml Erlenmeyer flask	**11676015**	24
1L Erlenmeyer flask	**11676016**	12
2L Erlenmeyer flask	**11676017**	11
2800 ml Fernbach flask	**11676018**	6
Adhesive flask mat, 9 x 9" (23 x 23 cm)	**1368750**[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	**11-676-004**	
Universal test tube rack with holder (must purchase desired test tube rack in addition to holder)		
Universal adjustable angle test tube rack holder	**11676039**	–
Test tube rack, 72 places, 10–13 mm (3–7 ml) tubes	**11676043**[2]	5 angled
Test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	**11676044**[2]	4 angled
Test tube rack, 40 places, 21–25 mm (30 ml) tubes	**11676033**[2]	4 angled
Test tube rack, 24 places, 26–30 mm (50 ml) tubes	**11676034**[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	**11676035**[4]	5 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	**11676036**[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 21–25 mm (30 ml) tubes	**11676037**[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 24 places, 26–30 mm (50 ml) tubes	**11676038**[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 11676016)	**11676002**	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)	**11676041**	7 racks, 63 plates
Microplate rack insert for deep-well plates, 2 shelves (Requires universal adjustable angle test tube rack holder)	**11676040**[1]	5 racks, 30 plates
Replacement screws		
Replacement screws (50) #10-24 x 5/16" countersink Phillips headscrews for mounting tube holders to platform	**11-676-003**	–

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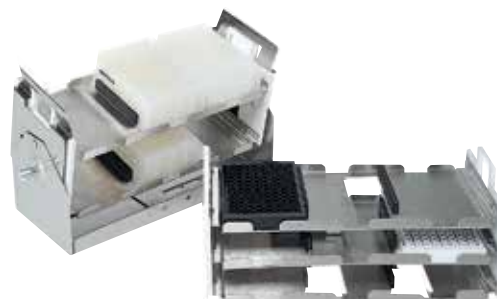
The universal test tube rack holder can be adjusted to fit any of the four available test tube rack sizes. Universal design requires the separate purchase of a test tube rack.

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

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"	25 ml Erlenmeyer flask	91	**11676022**
(74.9 x 45.7 cm)	50 ml Erlenmeyer flask	91	**11676023**
	125 ml Erlenmeyer flask	61	**11676024**
	250/300 ml Erlenmeyer flask	30	**11-676-025**
	250/300 ml Erlenmeyer flask	40	**11676026**
	500 ml Erlenmeyer flask	24	**11676027**
	1L Erlenmeyer flask	15	**11676028**
	2L Erlenmeyer flask	12	**11676029**
	2800 ml Fernbach flask	6	**11676030**

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		**11676005**
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		**11676006**
Door glass cover prevents light from entering through window		**11676007**
7 day recorder 0–100°C, 6"	115V, 50/60Hz	**11676009**
	220V, 50/60Hz	**11676010**
Sensaphone™ telephone dialing system alarm system that will notify user via the telephone	Four channel, 120V/60Hz	**400047**
	Eight channel, 120V/60Hz	**400134**

Microplate rack inserts
Our microplate rack inserts are available for the dedicated adjustable angle test tube rack holder (50 ml)-No. 11676038 and the universal adjustable angle test tube rack holder-No. 11676039. 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, 50/60Hz
						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)	11675211

[1]Achievable maximum speeds may be dependent on load

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	11675401
	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	11675475	
Microplate/deep-well plate	14512314	5
10 ml Erlenmeyer flask	14512315	60
25 ml Erlenmeyer flask	22262769	60
50 ml Erlenmeyer flask	11675476	30
125 ml Erlenmeyer flask	142724AA	13
250 ml Erlenmeyer flask	142724B	9
300 ml Erlenmeyer flask	14512316	7
500 ml Erlenmeyer flask	22256959	6
1L Erlenmeyer flask	142724F	4
2L Erlenmeyer flask	22262773	1
4L Erlenmeyer flask	14512317	1
6L Erlenmeyer flask	14512318	1
2500 ml low form culture flask	14512319	1
2800 ml Fernbach flask	14512320	1
Test tube racks – full size		
10–13 mm, red, 6 x 12 array	14512107	3
14–16 mm, orange, 6 x 12 array	14512109[1]	2
17–20 mm, white, 4 x 10 array	14512111	3
21–25 mm, blue, 4 x 10 array	14512113	2
26–30 mm, green, 3 x 8 array	14512115[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14512117	2
Test tube racks – half size		
10–13 mm, red, 6 x 6 array	14512108	6
14–16 mm, orange, 6 x 6 array	14512110[1]	4
17–20 mm, white, 4 x 5 array	14512112	4
21–25 mm, blue, 4 x 4 array	14512114	4
26–30 mm, green, 3 x 3 array	14512116[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14512118	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	11-676-046
	25 ml Erlenmeyer flask	32	11676047
	50 ml Erlenmeyer flask	32	11676048
	125 ml Erlenmeyer flask	16	11676049
	250 ml Erlenmeyer flask	9	11676050
	300 ml Erlenmeyer flask	8	11676051
	500 ml Erlenmeyer flask	6	11676052
	1L Erlenmeyer flask	4	11676053
	2L Erlenmeyer flask	2	11676054
	10 ml beaker	76	11676055
	20 ml beaker	52	11676056
	30 ml beaker	52	11676057
	100 ml beaker	22	11676058
	Utility tray	–	11676059

Optional accessories

MaxQ 7000	Model No.
Cooling coil, customer installed Needed for near-ambient temperature and below	11675464[3]
Gable cover, stainless-steel For temperatures up to 90°C	11675479
Gable cover, Plexiglas® For temperatures up to 65°C	11675462
Auxiliary platform suspension arms Used for rapid platform changes	11675465
Movable dolly For under lab bench operation	11675466
Mobile cart	11675467

[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, 50/60Hz (dual voltage)	Model No. 230V, 50Hz
				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)	**11676231**	SHKE416HP-1CE
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)	**11676233**	SHKE430HP-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	**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**
Counter-balanced Assembly	When using a 36" x 24" 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)		**11-676-300**

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	11676020				
Microplate / deepwell plate	11676019	10	16	18	31
25 ml Erlenmeyer flask	11676011	49	80	91	150
50 ml Erlenmeyer flask	11676012	49	80	91	150
125 ml Erlenmeyer flask	11676013	25	40	39	75
250/300 ml Erlenmeyer flask	11676014	18	25	30	55
500 ml Erlenmeyer flask	11676015	16	20	24	30
1L Erlenmeyer flask	11676016	8	12	12	24
2L Erlenmeyer flask	11676017	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	11676018	4	5	6	11
Adhesive flask mat	1368750	–	–	–	–
Adjustable test tube racks with holder (includes one test tube rack)					
10–13 mm - 3–7 ml tube rack - 72 place	11676035	4	6	8	16
16–20 mm - 10–20 ml tube rack - 40 place	11676036	4	6	7	16
21–25 mm - 30 ml tube rack - 40 place	11676037	3	5	6	9
26–30 mm - 50 ml tube rack -24 place	11676038	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	11676039	–	–	–	–
10–13 mm - 3–7 ml tube rack - 72 place	11676043	3	4	5	9
16–20 mm - 10–20 ml tube rack - 40 place	11676044	3	4	5	9
21–25 mm - 30 ml tube rack - 40 place	11676033	2	3	4	7
26–30 mm - 50 ml tube rack -24 place	11676034	2	3	4	7
Microplate racks and vial/tube inserts					
Microplate rack for standard plates	11676041[1]	4 racks, 36 plates	5 racks, 45 plates	7 racks, 63 plates	8 racks, 72 plates
Microplate rack for deepwell plates	11676040[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	11676002*	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.
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	**11-676-003**
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	**11-676-004**

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 Erlenmeyer flask	25	238012
	125 ml Erlenmeyer 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 Erlenmeyer 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 Erlenmeyer 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 Erlenmeyer flask	96	238027
	250/300 ml Erlenmeyer flask*	70	238028
	500 ml Erlenmeyer flask	30	238029
	1L Erlenmeyer flask	24	238030
	2L Erlenmeyer flask	15	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.

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, 50/60Hz (dual voltage)	Model No. 230V, 50Hz
						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)	**11676232**	SHKE420HP-1CE

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) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11676020	
Microplate / deepwell plate	11676019	10
25 ml Erlenmeyer flask	11676011	49
50 ml Erlenmeyer flask	11676012	49
125 ml Erlenmeyer flask	11676013	25
250/300 ml Erlenmeyer flask	11676014	18
500 ml Erlenmeyer flask	11676015	16
1L Erlenmeyer flask	11676016	8
2L Erlenmeyer flask	11676017	6
2800 ml Fernbach flask	11676018	4
Adhesive flask mat	1368750	–
Adjustable test tube racks with holder (includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	11676035	4
16–20 mm - 10–20 ml tube rack - 40 place	11676036	4
21–25 mm - 30 ml tube rack - 40 place	11676037	3
26–30 mm - 50 ml tube rack -24 place	11676038	3
Universal test tube racks with holder (must purchase desired test tube rack in addition to holder)		
Universal adjustable tube rack holder	11676039	–
10–13 mm - 3–7 ml tube rack - 72 place	11676043	3
16–20 mm - 10–20 ml tube rack - 40 place	11676044	3
21–25 mm - 30 ml tube rack - 40 place	11676033	2
26–30 mm - 50 ml tube rack -24 place	11676034	2
Microplate racks and vial/tube inserts		
Microplate rack for standard plates (3 shelves)	11676041	4 racks, 36 plates
Microplate rack for deepwell plates (2 shelves)	11676040	3 racks, 18 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	11676002*	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.

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	238010
	50 ml Erlenmeyer flask	49	238011
	125 ml Erlenmeyer flask	25	238012
	125 ml Erlenmeyer 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" (7.6 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)	191591
Gassing manifold (one gas)	194045
Free-standing 0–100°C, 6", seven day chart recorder, 115V, 60Hz	11676009
Free-standing 0–100°C, 6", seven day chart recorder, 220V, 50Hz	11676010
Replacement chart paper, 50 per box	11676008
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	11-676-003
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	11-676-004

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, 60Hz | Model No. 230V, 50Hz |
						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)	**11676237**	**11-676-234**
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)	**11676235**	**11676236**

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	**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 / 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	11676020	
Microplate / deepwell plate	11676019	18
25 ml Erlenmeyer flask	11676011	91
50 ml Erlenmeyer flask	11676012	91
125 ml Erlenmeyer flask	11676013	39
250/300 ml Erlenmeyer flask	11676014	30
500 ml Erlenmeyer flask	11676015	24
1L Erlenmeyer flask	11676016	12
2L Erlenmeyer flask	11676017	11
4L Erlenmeyer flask	236017	6
5L Erlenmeyer flask	236028	5
6L Erlenmeyer flask	236018	4
2800 ml Fernbach flask	11676018	6
Adhesive flask mat	1368750	–
Adjustable test tube racks with holder (includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	11676035	4
16–20 mm - 10–20 ml tube rack - 40 place	11676036	4
21–25 mm - 30 ml tube rack - 40 place	11676037	3
26–30 mm - 50 ml tube rack -24 place	11676038	3
Universal test tube racks with holder (must purchase desired test tube rack in addition to holder)		
Universal adjustable tube rack holder	11676039	–
10–13 mm - 3–7 ml tube rack - 72 place	11676043	3
16–20 mm - 10–20 ml tube rack - 40 place	11676044	3
21–25 mm - 30 ml tube rack - 40 place	11676033	2
26–30 mm - 50 ml tube rack -24 place	11676034	2
Microplate racks and vial/tube inserts		
Microplate rack for standard plates (3 shelves)	11676041	7 racks, 63 plates
Microplate rack for deepwell plates (2 shelves)	11676040	5 racks, 30 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	11676002*	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.

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	238017
	50 ml Erlenmeyer flask	91	238018
	125 ml Erlenmeyer 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	5	238083
	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, 50/60Hz	201113
Replacement chart paper, 50 per box	180006
HEPA filter replacement	760164
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	11-676-003
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	11-676-004

Learn more about our shakers!

Visit our new Shaker Resources Center at **www.thermoscientific.com/shakervideos** to see our product videos and read our application notes, Smart Notes, white papers and other valuable resources!

Enhance your shakers with Thermo Scientific Labware

In your lab, quality means reproducibility, so trust your cultures only to the most dependable materials.

Complement your Thermo Scientific MaxQ shakers with Thermo Scientific Nalgene Sterile Single-Use Erlenmeyer Flasks

Thermo Scientific™ Nalgene™ PETG flasks are ideal for suspension cell culture, media preparation, mixing and storage.

Our sterile, single-use flasks are made of light, break resistant, crystal clear PETG and come with either a solid cap or vented cap for sterile gas exchange. All sizes are available with plain bottom or with baffled bottom for use on the bench top or shaker table.

- Sterile and single use: reduce contamination risk
- Robust and break resistant: increase personal safety
- Collapses when autoclaved: reduce biohazardous waste
- Graduated for quick volume assessment
- Excellent validation support: validation binder available upon request[†]

www.thermoscientific.com/shakerflasks

† Validation binders are available to customers as support documentation during your product validation process. This confidential information can be requested at: rocregsupport@thermofisher.com. Following your request submission, a Confidentiality Agreement will be forwarded to you for completion.

Trust our shakers for a range of applications:

Bacterial suspensions	Growth of insect cells
Cell culture	Hybridization
Diagnostic test	Mixing blood samples
Dissolution studies	Plasmid production
DNA fingerprinting	Protein production
Extraction procedures	Solubility studies
General mixing	Staining and destaining
Growth of bacteria or yeast	Washing procedures

www.thermoscientific.com/shakers

Fisher HealthCare

In the United States:
For customer service, call 1-800-640-0640
To fax an order, use 1-800-290-0290
To order online: www.fisherhealthcare.com

BRSHKCAPABHMD 0816
BN0812162

Thermo SCIENTIFIC
A Thermo Fisher Scientific Brand