

Lab equipment

Reliability. Simplicity. Flexibility.

Thermo Scientific™ Orbital Shakers

High-performance laboratory shakers

The Thermo Scientific™ Orbital Shakers portfolio of high-performance laboratory shakers includes open air, CO₂-resistant, incubated, refrigerated, and CO₂-controlled options. Each shaker supports a variety of application uses with features designed for flexibility in the lab. Their quiet operation, user-friendly design, and space efficiency are why our shakers are trusted by labs around the world.

Dependable performance with consistent results

Thermo Scientific Shakers are your laboratory workhorses designed with powerful and durable tri-eccentric balanced drive systems help provide confidence and repeatability in your work.

Innovative features that make your work easier

Designed with a clear purpose: to make your work easier. With intuitive features, easy-to-clean interior, and a low-maintenance design, our lab shakers allow you to focus on your research, not your equipment.

Visualize the right fit for your lab

Dive into the features of the Thermo Scientific Shaker portfolio with our immersive 3D product tours. Bring the experience to life with our augmented reality feature, allowing you to preview full-scale models.

Configured to meet your application needs

Unlock the full potential of our shakers with a wide range of accessories designed to meet your needs. Configure and visualize your platform using our interactive shaker configuration tool.



At-a-glance shaker comparison

	Thermo Scientific™ IntelliStack™ Incubator Shaker	IntelliStack CO ₂ Incubator Shaker	Thermo Scientific™ CO ₂ Resistant Shaker	Thermo Scientific™ MaxQ™ 6000 Temperature Control Shaker	Thermo Scientific™ Solaris Incubated and Refrigerated Benchtop Temperature Control Shaker	Solaris Open Air Shaker	MaxQ 8000 Temperature Control Shaker	MaxQ HP CO ₂ Resistant Shaker
Bench or floor installation	Floor	Floor	Bench	Bench or floor	Bench	Bench	Floor	Bench
Stackable	✓	✓		✓			✓	
Orbital diameter	1 in. / 25 mm 2 in. / 50 mm	1 in. / 25 mm 2 in. / 50 mm	0.75 in / 19 mm 0.12 in / 3 mm	0.75 in / 19 mm	1 in. / 25.4 mm	1 in. / 25.4 mm	1 in. / 25.4 mm	1 in. / 25.4 mm
Platform size	35 x 22 in. / 89 x 56 cm	35 x 22 in. / 89 x 56 cm	14.1 x 11.8 in. / 36 x 30 cm	18 x 18 in. / 46 x 46 cm	11 x 14 in. / 31 x 36 cm,	12 x 14 in. / 31 x 36 cm	30 x 18 in. / 75 x 46 cm	18 x 18 in. / 46 x 46 cm
			18 x 18 in. / 46 x 46 cm	18 x 18 in. / 46 x 46 cm	18 x 18 in. / 46 x 46 cm	18 x 30 in. / 46 x 76 cm		24 x 18 in. / 61 x 46 cm
						36 x 24 in. / 92 x 61 cm		
Unit Weight	684 lbs. / 310 kg	684 lbs. / 310 kg	29 lbs. / 13.2 kg	330 lbs / 150kg, incubated 430 lbs / 195 kg, refrigerated	99 lbs/ 45 kg to 216 lbs. / 98 kg, varies by model	46 lbs / 21 kg to 166 lbs / 75k g	550 lbs / 250 kg, incubated 600 lbs / 273 kg, refrigerated	138 lbs / 62.7 kg
Largest flask size (clamp)	5 L	5 L	5 L	6 L	2 L	6 L	2.8 L	6 L
Max capacity of largest flask*	8	8	3	4	4	8	6	4
Clamp fit**	A	A	A	B	B	B	C	C
Max load capacity	44.1 lbs. / 20 kg	44.1 lbs. / 20 kg	13 lbs. / 5.9 kg	35 lbs./ 16 kg	35 lbs. / 16 kg 70.5 lbs. / 32 kg	55 lbs. / 25 kg 95 lbs. / 43 kg	71 lbs. / 32. 2 kg	71 lbs. / 32. 2 kg
Speed range	30 – 350 ±1 rpm 30 – 300 ±1 rpm	30 – 350 ±1 rpm 30 – 300 ±1 rpm	30 – 300 ± 1 rpm 30 – 1,200 ± 1 rpm	15 – 500 ± 1 rpm	15 – 525 ± 1 rpm	15 – 525 ± 1 rpm	25 – 400 ± 1 rpm	25 – 525 ± 1 rpm
Temperature Control	✓	✓		✓	✓		✓	
Temperature range	4 – 60 °C	4 – 60 °C		Ambient +10 – 80 °C, incubated 4 – 80 °C, refrigerated	30 - 60 °C, incubated 5 - 60 °C, refrigerated		Ambient +10 – 60 °C, incubated Ambient -5 – 60 °C, refrigerated	
Humidity control	✓	✓						
CO ₂ control		✓						
CO ₂ resistant	✓	✓	✓					✓
Access port	✓	✓			✓			
Programmable	✓	✓			✓	✓	✓	✓

* Using adhesive mats; calculated fit based on largest available platform

**Clamp fit A fits Thermo Scientific brand and IntelliStack Shakers; Clamp Fit B fits Solaris brand shakers and the MaxQ 6000 Shaker; and Clamp Fit C fits all other MaxQ Shakers. Clamp details can be found on the accessories pages for the corresponding shaker brands: Thermo Scientific compatible clamps; Solaris compatible clamps; and MaxQ compatible clamps.

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Stackable Incubator and CO₂ Incubator Shakers

IntelliStack Incubator and CO₂ Incubator Shaker

Experience next-level shaking versatility and control. The IntelliStack Incubator and CO₂ Incubator Shaker offer a fully integrated shaking solution for bacteria, yeast and mammalian cell culture and other applications. The IntelliStack CO₂ Incubator Shaker combines orbital shaking with temperature, humidity, and CO₂ controls.

High performance, excellent user experience

- Energy efficient operation using hydrocarbon refrigerant, foamed insulation, and an inverter compressor
- Quiet operation: design to operate < 55 dB even at the highest speeds and temperatures
- Tri-eccentric balanced motor for gentle speed start up and slow down
- Modern design with intuitive full color 10 in. touchscreen interface
- Stack up to three IntelliStack Incubator shakers using supplied components
- Orbital shaking speeds up to 350 rpm with rigorously tested stability

Enhanced sample security

- Precise adjustable temperature (4 °C to 60 °C) and relative humidity (10 % to 90 %)
- CO₂ control range of 0 % to 20 % with a control accuracy of ±0.2 % (only for CO₂ incubator shaker models)
- Real time monitoring of key parameters
- Authorized user access control and data, alarm and event logging provide enhanced sample security
- Easy data access via USB or RS485 with > 2 years of data retained

Easy-to-use design

- Large capacity inner chamber (39.6 x 27.2 x 13.7 in.) capable of shaking up to 24 5L flasks* when 3 units are stacked.
- Interior LED lighting for easy view of samples without opening the door
- Bidirectional 254nm UV light to support sterilization
- Easy-to-clean with rounded corners, polished stainless steel interior, integrated drainage and slide-out platform
- Extensive selection of accessories to fit most applications
- Standard warranty coverage includes 2 years parts and labor

Accessories can be found on pages 9 - 11.

* When using adhesive mats



IntelliStack Incubator Shaker specifications

Model	Speed range*	Door swing	Orbit diameter in. (mm)	Max load* lb. (kg)	Temperature range (°C)	Humidity range	Overall dimensions in. (cm) without platform			Regulatory certificates
							L	W	H	
IntelliStack Incubator Shaker	30 – 350 ±1 rpm	Down Swing	1 (25)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient +10% to 90% RH	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL
	30 – 350 ±1 rpm	Up Swing	1 (25)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient +10% to 90% RH	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL
	30 – 300 ±1 rpm	Down Swing	2 (50)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient +10% to 90% RH	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL
	30 – 300 ±1 rpm	Up Swing	2 (50)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient +10% to 90% RH	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL

*Maximum speed is dependent on load and platform. Please see the manual for maximum speed by weight information, and for additional information on speed and load limitation for dual stack platforms.

Ordering information - shakers

Model	Description	Cat. No.
IntelliStack Incubator Shaker 25 mm	IntelliStack Incubator Shaker 25 mm 120 V, 50/60 Hz with Down Swing	8882610D
IntelliStack Incubator Shaker 25 mm	IntelliStack Incubator Shaker 25 mm 220 V, 50/60 Hz with Down Swing	8882620D
IntelliStack Incubator Shaker 50 mm	IntelliStack Incubator Shaker 50 mm 120 V, 50/60 Hz with Down Swing	8885010D
IntelliStack Incubator Shaker 50 mm	IntelliStack Incubator Shaker 50 mm 220 V, 50/60 Hz with Down Swing	8885020D
IntelliStack Incubator Shaker 25 mm	IntelliStack Incubator Shaker 25 mm 120 V, 50/60 Hz with Up Swing	8882610U
IntelliStack Incubator Shaker 25 mm	IntelliStack Incubator Shaker 25 mm 220 V, 50/60 Hz with Up Swing	8882620U
IntelliStack Incubator Shaker 50 mm	IntelliStack Incubator Shaker 50 mm 120 V, 50/60 Hz with Up Swing	8885010U
IntelliStack Incubator Shaker 50 mm	IntelliStack Incubator Shaker 50 mm 220 V, 50/60 Hz with Up Swing	8885020U

Miscellaneous Accessories

Compatible Model	Description	Cat. No.
IntelliStack Incubator Shaker	Thermo Scientific IntelliStack Stand for use with Single or Double IntelliStack shakers, open shelf	88900000
IntelliStack Incubator Shaker	Thermo Scientific IntelliStack Humidity and Drain Carboy Kit	88900001
IntelliStack Incubator Shaker	Thermo Scientific IntelliStack window cover for light sensitive applications	88900002
IntelliStack Incubator Shaker	Thermo Scientific IntelliStack Stand for use with Single or Double IntelliStack shakers, closed drawers	88900003

IntelliStack CO₂ Incubator Shaker specifications

Model	Speed range*	Door swing	Orbit diameter in. (mm)	Max load* lb. (kg)	Temperature range (°C)	Humidity range	CO ₂ Control Range	Overall dimensions in. (cm) without platform			Regulatory certificates
								L	W	H	
IntelliStack CO ₂ Incubator Shaker	30 – 350 ±1 rpm	Down Swing	1 (25)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient +10% to 90% RH	0% - 20% ± 0.2%	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL
	30 – 350 ±1 rpm	Up Swing	1 (25)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient to 90 % RH	0% - 20% ± 0.2%	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL
	30 – 300 ±1 rpm	Down Swing	2 (50)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient to 90 % RH	0% - 20% ± 0.2%	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL
	30 – 300 ±1 rpm	Up Swing	2 (50)	44.1 (20)	Ambient -18 to 60 (4 lowest)	Ambient to 90 % RH	0% - 20% ± 0.2%	55.1 (140)	34.9 (88.6)	26.8 (68)	CE, UL

*Maximum speed is dependent on load and platform. Please see the manual for maximum speed by weight information, and for additional information on speed and load limitation for dual stack platforms.

Ordering information - shakers

Model	Description	Cat. No.
IntelliStack CO ₂ Incubator Shaker 25 mm	IntelliStack CO ₂ Incubator Shaker 25 mm 120 V, 50/60 Hz with Down Swing	8892610D
IntelliStack CO ₂ Incubator Shaker 25 mm	IntelliStack CO ₂ Incubator Shaker 25 mm 220 V, 50/60 Hz with Down Swing	8892620D
IntelliStack CO ₂ Incubator Shaker 50 mm	IntelliStack CO ₂ Incubator Shaker 50 mm 120 V, 50/60 Hz with Down Swing	8895010D
IntelliStack CO ₂ Incubator Shaker 50 mm	IntelliStack CO ₂ Incubator Shaker 50 mm 220 V, 50/60 Hz with Down Swing	8895020D
IntelliStack CO ₂ Incubator Shaker 25 mm	IntelliStack CO ₂ Incubator Shaker 25 mm 120 V, 50/60 Hz with Up Swing	8892610U
IntelliStack CO ₂ Incubator Shaker 25 mm	IntelliStack CO ₂ Incubator Shaker 25 mm 220 V, 50/60 Hz with Up Swing	8892620U
IntelliStack CO ₂ Incubator Shaker 50 mm	IntelliStack CO ₂ Incubator Shaker 50 mm 120 V, 50/60 Hz with Up Swing	8895010U
IntelliStack CO ₂ Incubator Shaker 50 mm	IntelliStack CO ₂ Incubator Shaker 50 mm 220 V, 50/60 Hz with Up Swing	8895020U

Miscellaneous Accessories

Compatible Model	Description	Cat. No.
IntelliStack CO ₂ Incubator Shaker	Thermo Scientific IntelliStack Stand for use with Single or Double IntelliStack shakers, open shelf	88900000
	Thermo Scientific IntelliStack Humidity and Drain Carboy Kit	88900001
	Thermo Scientific IntelliStack window cover for light sensitive applications	88900002
	Thermo Scientific IntelliStack Stand for use with Single or Double IntelliStack shakers, closed drawers	88900003

CO₂ Resistant Shakers

Small footprint and durable construction for use inside CO₂ incubators

Thermo Scientific CO₂ Resistant Shakers offers around-the-clock operation ideally suited to keep your cells alive and flourishing within your working environment.

- An extensive selection of accessories fits most applications
- Standard warranty coverage includes 2 years parts and labor

Accessories can be found on pages 9 - 11.

Durable performance

- Orbital shaking through magnetic power eliminates the need to replace belts
- Specially treated mechanical components protect up to 20 % CO₂ and 95 % humidity conditions
- Minimal heat dissipation assures conditions within the CO₂ chamber are not affected
- Stainless steel construction for protection from corrosive CO₂ gassing conditions

Convenient external control box

- Control box with LED display allows for easy adjustments without opening the chamber door
- Control box standard with 4-20 mA data output port to provide added security and remote monitoring capability

Flexible operation

- Small footprint ideal for use in a CO₂ incubator or on the bench
- Choose the best orbit size for your application with 19 mm (3/4") orbit for flasks and cell culture dishes or 3 mm (1/8") orbit for microplates and other small vessels
- Large capacity 18 in. x 18 in. universal platform option available for high-throughput projects and to maximize incubator space



Thermo Scientific™ CO₂ Resistant Shakers specifications

Model	Speed range*	Orbit diameter in. (mm)	Max load* lb. (kg)	Overall dimensions in. (cm) without platform			Regulatory certificates
				L	W	H	
19 mm CO ₂ Resistant Shaker	30 – 300 ±1 rpm	0.75 (19)	13 (5.9)	14.2 (36.1)	11.8 (30)	3.8 (9.7)	CE, RoHS, cCSAus
3 mm CO ₂ Resistant Shaker	30 – 1200 ±1 rpm	0.12 (3)	13 (5.9)	14.2 (36.1)	11.8 (30)	3.8 (9.7)	CE, RoHS, cCSAus

Ordering information - shakers

Model	Description	Cat. No.
19 mm CO ₂ Resistant Shaker	CO ₂ resistant shaker with 19 mm orbit, control box, US style plug, 100-120 V, 50/60 Hz	88881101
	CO ₂ resistant shaker with 19 mm orbit, control box, CN, UK, EU style plugs 220-240 V, 50/60 Hz	88881102
3 mm CO ₂ Resistant Shaker	CO ₂ resistant shaker with 3 mm orbit, control box, US style plug, 100-120 V, 50/60 Hz	88881101B
	CO ₂ resistant shaker with 3 mm orbit, control box, CN, UK, EU style plugs 220-240 V, 50/60 Hz	88881102B

Shaker and accessory bundles

Model	Description	Cat. No.
19 mm CO ₂ Resistant Shaker	CO ₂ resistant shaker 19 mm orbit, control box with 4-20 mA data output, 14 x 12 in. platform, and flask clamp starter kit, 100-120 V	88881103
	CO ₂ resistant shaker 19 mm orbit, control box with 4-20 mA data output, 14 x 12 in. platform, and flask clamp starter kit, 220-240 V	88881104
3 mm CO ₂ Resistant Shaker	CO ₂ resistant shaker 3 mm orbit, control box with 4-20 mA data output, 14 x 12 in. platform, and flask clamp starter kit, 100-120 V	88881103B
	CO ₂ resistant shaker 3 mm orbit, control box with 4-20 mA data output, 14 x 12 in. platform, and flask clamp starter kit, 220-240 V	88881104B

Flask Clamp Starter Kit is Cat No. 88881133 that includes 2 - 100ml flask clamps, 4 - 250ml flask clamps, 4 - 500ml flask clamps, 2 - 1L flask clamps, and 2 - 2L flask clamps

Optional Platforms

Compatible Model	Description	Cat. No.
19 and 3 mm CO ₂ Resistant Shakers	Universal Platform - 14 x 12 in. (360 x 300 mm)	88881122
	Universal Platform - 18 x 18 in. (457 x 457 mm)	88881122B

Miscellaneous Accessories

Compatible Model	Description	Cat. No.
19 mm CO ₂ Resistant Shaker	Control box with 4-20 mA data output for 19 mm orbit shaker	88881127B
3 mm CO ₂ Resistant Shaker	Control box with 4-20 mA data output for 3 mm orbit shaker	88883101B
19 and 3 mm CO ₂ Resistant Shakers	General power adapter	88881128
	Replacement US plug	88881129
	Replacement CN plug	88881130
	Replacement EU plug	88881131
	Replacement UK plug	88881132

Accessories for IntelliStack Incubator, CO₂ Incubator Shakers, and CO₂ Resistant Shakers

Tube Racks and Microplate Holders by platform fit

Description	14.1 x 11.8 88881122	18 x 18 88881122B	IntelliStack 35.4 x 22 in.	Cat No.
Fixed tube rack 40 x 14 mm diameter	2	4	9	88881118
Fixed tube rack 40 x 16 mm diameter	2	4	9	88881119
Adjustable tube rack 40 x 14 mm diameter	2	4	9	88881120
Adjustable tube rack 40 x 16 mm diameter	2	4	9	88881121
Microplate holder	6	10	30	88881124

Accessories - spring platform

Description	Max qty	Cat No.
Spring platform 900 x 540 x 80 mm	1	88881142
Spring platform 720 x 440 x 80 mm	1	88881143
Spring platform 350 x 240 x 80 mm	4	88881144
Spring platform 450 x 400 x 80 mm	1	88881145
Spring platform 428 x 295 x 80 mm	2	88881146

Accessories - shaker flask clamps

Description	14.1 x 11.8 88881122	18 x 18 88881122B	IntelliStack 35.4 x 22 in.	Cat No.
500 ml Square infusion bottle	6	12	40	88881115
1 L Square infusion bottle	6	9	28	88881116
Funnel clamp	2	6	4	88881117

Accessories for IntelliStack Incubator, CO₂ Incubator Shakers, and CO₂ Resistant Shakers continued

Accessories - adhesive mat use recommendations

Flask size	14.1 x 11.8 88881122 Max flask capacity	18 x 18 88881122B Max flask capacity	35.4 x 22 in. IntelliStack Max flask capacity
25 ml	30	49	187
50 ml	30	49	187
100 ml	20	36	112
150 ml	15	33	104
200 ml	15	25	84
250 ml	12	25	76
500 ml	9	16	40
1000 ml	5	8	28
2000 ml	3	5	15
3000 ml*	2	4	13
5000 ml	1	2	8

* 3000 ml flask clamp also fits 2.8 L and 4 L Erlenmeyer flasks
Check the manual for RPM recommendations.

Shaker Flask Clamps by CO₂ resistant shaker platform fit

Description	14.1 x 11.8 88881122	18 x 18 88881122B	35.3 x 22 in. IntelliStack	Cat No.
25 ml Erlenmeyer	30	49	134	88881135C
50 ml Erlenmeyer	30	49	134	88881105
100 / 125 mL Erlenmeyer	15	25	60	88881106
150 ml Erlenmeyer	15	25	60	88881107
200 ml Erlenmeyer	15	18	60	88881108
250 ml Erlenmeyer	15	18	60	88881109
500 ml Erlenmeyer	9	10	32	88881110
1 L Erlenmeyer	6	7	22	88881111
2 L Erlenmeyer	4	4	15	88881112
3 L Erlenmeyer	2	4	12	88881113
5 L Erlenmeyer	1	2	6	88881114
Flask Clamp starter kit†				88881133

† Flask clamp starter kit includes: (2) 100 mL flask clamps, (4) 250 mL flask clamps, (4) 500 mL flask clamps, (2) 1 L flask clamps, (2) 2 L flask clamps.

Adhesive mats for Intellistack and CO₂ resistant shakers

Description	Maximum RPM*	Cat. No.
High Adhesion Sticky Mat 200 x 200 mm	400 RPM	75004126
High Adhesion Sticky Mat 280 x 170 mm	400 RPM	75004127
Low Adhesion Sticky Mat 200 x 200 mm	200 RPM	75004111
Low Adhesion Sticky Mat 280 x 170 mm	200 RPM	75004117
Sticky Mat 140 x 140 mm	225 RPM	88881126
Sticky Mat 230 x 230 mm	250 RPM	300349

* See Manual for suitability of your labware material at maximum shaking speed.



Accessories for IntelliStack Incubator, CO₂ Incubator Shakers, and CO₂ Resistant Shakers continued

Accessories - test tube racks

Description	Cat No.
Fixed Test Tube Rack 40 x 14 mm	88881118
Fixed Test Tube Rack 40 x 16 mm	88881119
Fixed Test Tube Rack 40 x 18 mm	88882118
Fixed Test Tube Rack 27 x 22 mm	88881136C
Fixed Test Tube Rack 21 x 30 mm	88882119
Adjustable Test Tube Rack 40 x 14 mm	88881120
Adjustable Test Tube Rack 40 x 16 mm	88881137C
Adjustable Test Tube Rack 40 x 18 mm	88881138C
Adjustable Test Tube Rack 27 x 22 mm	88881139
Adjustable Test Tube Rack 21 x 30 mm	88881140
Adjustable Test Tube Rack 24 x 30 mm	88881141
Fixed Test Tube Rack - Stainless Steel 50 ml conical	88881147
Adjustable Test Tube Rack - Stainless Steel 50 ml conical	88881148
Adjustable Test Tube Rack - Stainless Steel 15 ml conical	88881149

Accessories - flask clamps and plate holders

Description	Cat No.
Flask Clamp 25 ml	88881135
Flask Clamp 50 ml	88881105
Flask Clamp 100 ml	88881106
Flask Clamp 150 ml	88881107
Flask Clamp 200 ml	88881108
Flask Clamp 250 ml	88881109
Flask Clamp 500 ml	88881110
Flask Clamp 1000 ml	88881111
Flask Clamp 200 ml	88881112
Flask Clamp 3000 ml	88881113
Flask Clamp 5000 ml	88881114
Infusion Media Bottle Clamp 500 ml	88881115
Infusion Media Bottle Clamp 1000 ml	88881116
Sep Funnel Clamp	88881117
96 well Microplate holder	88881124

Stackable Temperature Control Shakers

MaxQ 6000 Incubated and Refrigerated Stackable Shakers



Space saving general purpose shakers that combine orbital shaking with general purpose incubation for added versatility.

Excellent for a variety of applications

- Units can be stacked two high on the floor to save valuable bench space with stacking kit SHK6000-10 and seismic restraints SHK6000-20
- 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

Durable construction, reliable performance

- Durable powder-coated, cold-rolled steel exterior construction
- Precisely monitor and control chamber temperature over complete range with $\pm 0.1^{\circ}\text{C}$ accuracy at 37°C with PID temperature controller
- Overtemperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails
- Solid-state DC brushless motor, variable speed control from 15 to 500 rpm
- Continuous and timed operation from 0.1 hour up to 999 hours or 0.1 minute to 999 minutes
- Spacious corrosion-resistant stainless steel chamber permits stacking an 18 x 18" platform to double the shaking capacity

- Includes 2 years labor, 5 years parts, and 10 years drive mechanism

Platforms and accessories must be ordered separately. Accessories can be found on pages 18 - 22.



MaxQ 6000 Incubated and Refrigerated Stackable Shakers specifications

Model	Speed range*	Orbit diameter in. (mm)	Max load* lb. (kg)	Temperature range (°C)	Overall dimensions in. (cm) without platform			Regulatory certificates
					L	W	H	
MaxQ 6000 Incubated	15 – 500 ±1 rpm	0.75 (19)	35 (16)	Ambient +10 to 80	33 (83.8)	27 (68.6)	40.5 (102.9)	UL, cUL, CE
MaxQ 6000 Refrigerated	15 – 500 ±1rpm	0.75 (19)	35 (16)	Ambient - 15 to 80 (4 lowest)	33 (83.8)	27 (68.6)	40.5 (102.9)	UL, cUL, CE

Ordering information - shakers

Model	Description	Cat. No.
MaxQ 6000 Incubated	MaxQ 6000 Stackable Incubated Shaker without platform, 120 V, 60 Hz	SHKE6000
	MaxQ 6000 Stackable Incubated Shaker without platform, 240 V, 50/60 Hz	SHKE6000-1CE
MaxQ 6000 Refrigerated	MaxQ 6000 Stackable Incubated and Refrigerated Shaker without platform, 120 V, 60 Hz	SHKE6000-7
	MaxQ 6000 Stackable Incubated and Refrigerated Shaker without platform, 240 V, 50/60 Hz	SHKE6000-8CE

Shaker and accessory bundles

Model	Description	Cat. No.
MaxQ 6000 Incubated	MaxQ 6000 Incubated Stackable Shaker, 120 V, and clamp starter package	SHKE6000PROMO
	MaxQ 6000 Incubated Stackable Shaker, 240 V, 18 x 18 in. platform, and flask clamp starter kit	SHKE6000-1CEPR
MaxQ 6000 Refrigerated	MaxQ 6000 Incubated and Refrigerated Stackable Shaker, 120 V, 18 x 18 in. platform, and flask clamp starter kit	SHKE6000-7PROMO
	MaxQ 6000 Incubated and Refrigerated Stackable Shaker, 240 V, 18 x 18 in. platform, and flask clamp starter kit	SHKE6000-8CEPR

Optional platforms

Model	Description	Cat. No.
MaxQ 6000	MaxQ 18 x 18 Universal Platform	30110
	MaxQ 18 x 18 Dual Stack Universal Platform	30128
	Max Q Seismic restraint platform	SHK6000-20
	Max Q Stacking platform	SHK6000-10

Miscellaneous accessories

Model	Description	Cat. No.
MaxQ 6000	Adapter rod set for stacking two platforms (4)	3522-3
	Adjustable vessel platform without bottom	3524-60

Benchtop Temperature Control Shakers

Solaris Incubated and Refrigerated Benchtop Shakers



Enhanced usability for quiet shaking across a wide range of temperatures with an intuitive easy-to-use touch screen, standard programmability, and a reliable drive system.

Reliable and efficient operation

- Choice of heated or heated/cooled models and versatile interchangeable clamps and platforms to meet a wide variety of customer application needs
- Compressor free environmentally friendly Peltier cooling on select models to reduce costly energy consumption
- Heavy-duty tri-eccentric drive mechanism handles heavy loads, protected by overload sensor which turns unit off if weight capacity exceeded

Intuitive touch screen display

- Easy to read full color touch screen with multi language system
- Standard programmability allows storage of routines and setpoints for efficient use

Compatible with GLP/GMP environments

- Data monitoring alerts, alarms, and end of runs
- On board graphing capabilities and historical monitoring to enable run history
- Ergonomic design, sealed to protect from damaging spills simplifies cleaning and contamination control

Improved user experience

- Standard warranty coverage includes 2 years labor, 5 years parts, and years drive mechanism

Accessories can be found on pages 18 - 22.



Solaris Incubated and Refrigerated Benchtop Shakers specifications

Model	Speed range*	Orbit diameter in. (mm)	Max load* lb. (kg)	Temperature range (°C)	Overall dimensions in. (cm) without platform			Height with Lid open in. (cm)	Regulatory certificates
					L	W	H		
Solaris 2000 I	15 – 525 ±1 rpm	1 (25.4)	35 (16)	Ambient +5 to 60 (30 lowest)	27.6 (70)	14.2 (36)	18.1 (46)	30.8 (79)	CE Cert, UL (Canada/US), File E311968, UK Mark
Solaris 2000 R	15 – 525 ±1 rpm	1 (25.4)	35 (16)	Ambient -15 to 60 (5 lowest)	27.6 (70)	14.2 (36)	18.1 (46)	30.8 (79)	CE Cert, UL (Canada/US), File E311968, UK Mark
Solaris 4000 I	15 – 525 ±1 rpm	1 (25.4)	70.5 (32)	Ambient +5 to 60 (30 lowest)	30.3 (77)	22.4 (57)	21.7 (55)	36.7 (94)	CE Cert, UL (Canada/US), File E311968, UK Mark
Solaris 4000 R	15 – 525 ±1 rpm	1 (25.4)	70.5 (32)	Ambient -15 to 60 (4 lowest)	30.3 (77)	22.4 (57)	21.7 (55)	36.7 (94)	CE Cert, UL (Canada/US), File E311968, UK Mark

*Maximum speed is dependent on load and platform. Please see the manual for maximum speed by weight information, and for additional information on speed and load limitation for dual stack platforms.

Shaker and accessory bundles

Model	Description	Cat. No.
Solaris 2000 I	Solaris SK2001 Incubated Benchtop Shaker with 11 x 14 in. platform and Flask Clamp Starter Kit**	SK2001CPKG
	Solaris SK2001 Incubated Benchtop Shaker with 11 x 14 in. platform and adhesive sticky mats*	SK2001MPKG
Solaris 2000 R	Solaris SK2002 Incubated and Refrigerated Benchtop Shaker with 11 x 14 in. platform with Flask Clamp Starter Kit**	SK2002CPKG
	Solaris SK2002 Incubated and Refrigerated Benchtop Shaker with 11 x 14 in. platform and adhesive sticky mats*	SK2002MPKG
Solaris 4000 I	Solaris SK4001 Incubated Benchtop Shaker with 18 x 18 in. platform and Flask Clamp Starter Kit**	SK4001CPKG
	Solaris SK4001 Incubated Benchtop Shaker with 18 x 18 in. platform and adhesive sticky mats*	SK4001MPKG
Solaris 4000 R	Solaris SK4002 Incubated and Refrigerated Benchtop Shaker with 18 x 18 in. platform and Flask Clamp Starter Kit**	SK4002CPKG
	Solaris SK4002 Incubated and Refrigerated Benchtop Shaker with 18 x 18 in. platform and adhesive sticky mats*	SK4002MPKG

*Bundles with Adhesive Mats include 1 pack each of 75002127 and 75004111

**Flask Clamp Starter Kit includes 2 x Cat. No. 30153, 4 x Cat. No. 30154bi, 4 x Cat. No. 30156bi, 2 x Cat. No. 30157bi, 2 x Cat. No. 30158, 1 x Cat. No. 30175

Ordering information - shakers

Model	Description	Cat. No.
Solaris 2000 I	Solaris SK2001 Incubated Benchtop Shaker with 11 x 14 in. platform, 100-240 V, 50/60 Hz	SK2001
Solaris 2000 R	Solaris SK2002 Incubated and Refrigerated Benchtop Shaker with 11 x 14 in. platform, 100-240 V, 50/60 Hz	SK2002
Solaris 4000 I	Solaris SK4001 Incubated Benchtop Shaker with 18 x 18 in. platform, 100-240 V, 50/60 Hz	SK4001
Solaris 4000 R	Solaris SK4002 Incubated and Refrigerated Benchtop Shaker with 18 x 18 in. platform, 100-240 V, 50/60 Hz	SK4002

Optional platforms

Model	Description	Cat. No.
Solaris 2000 I Solaris 2000 R	Thermo Scientific Solaris 11 x 14 in. Universal Platform	SK1114
Solaris 4000 I Solaris 4000 R	Thermo Scientific Solaris 18 x 18 in. Universal Platform	SK1818

Platforms come with shakers

Open Air Shakers

Solaris Open Air Orbital Shakers



These orbital shakers set the standard for reliability and technical innovation with an easy-to-use touchscreen display, compact footprint, and a reliable, heavy duty drive mechanism.

Reliable and efficient operation

- Unbalanced load sensor stops platform motion when excess vibration is detected and visual/audible alarms signal until condition is corrected
- Soft start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of closures
- Interface allows for timed or continuous 24 hour operation to allow for smooth and uniform shaking of large or uneven loads

Intuitive touch screen display

- Full-color touchscreen display allows you to clearly view speed and runtimes simultaneously to prevent risk of error, even from a distance
- Programmable to allow up to 99 unique saved programs for easy set up and reproducibility
- Historical monitoring of alerts, alarms, and interaction logs to provide greater security and reproducibility
- User Interface available in 10 languages

Compatible with GLP/GMP environments

- Sealed electronics system to minimize particle generation and reduce contamination
- USB and Ethernet connections for monitoring and data output
- Validated compatibility with ISO Class 5 (Grade A/B) cleanroom, tested in accordance with ISO 14644-1 and ISO 14644-14
- Can be used in a variety of environments, including in warm rooms, incubators, environmental chambers, and refrigerators that operate in temperature ranges of 5° C (40° F), 20 to 80% non-condensing humidity

Improved user experience

- Rounded corners, easy-to-remove platforms, and an enclosed mechanism makes cleaning fast and easy
- Standard warranty coverage includes 2 years labor, 5 years parts, and 10 years drive mechanism

Accessories can be found on pages 18 - 22.



Solaris Open Air Shakers specifications

Model	Speed range*	Orbit diameter in. (mm)	Max load* lb. (kg)	Overall dimensions in. (cm) without platform			Regulatory certificates
				L	W	H	
Solaris 2000	15 – 525 $\pm$ 1 rpm	1 (25.4)	55 (25)	18.5 (46.9)	14.3 (36.4)	5.5 (14.1)	CE Cert, UL (Canada/US) File E311968, UK Mark
Solaris 4000	15 – 525 $\pm$ 1 rpm	1 (25.4)	95 (43)	25.5 (64.8)	22.6 (57.3)	7 (17.7)	CE Cert, UL (Canada/US) File E311968, UK Mark

*Maximum speed is dependent on load and platform.

Ordering information - shakers

Model	Description	Cat. No.
Solaris 2000	Solaris SK2000 Small Open Air Shaker with 12 x 14 in. platform, 100-240 V, 50/60 Hz	SK2000
Solaris 4000	Solaris SK4000 Large Open Air Shaker with 18 x 30 in. platform, 100-240 V, 50/60 Hz	SK4000

Shaker and accessory bundles

Model	Description	Cat. No.
Solaris 2000	Solaris SK2000 Open Air Shaker with 12 x 14 in. platform and Flask Clamp Starter Kit	SK2000PR
Solaris 4000	Solaris SK4000 Open Air Shaker with 18 x 30 in. platform and Flask Clamp Starter Kit	SK4000PR

Optional platforms

Compatible model	Description	Cat. No.
Solaris 2000	Thermo Scientific Solaris 12 x 14 Universal Platform	SK1214
	Thermo Scientific Solaris 12 x 14 Dual Stack Universal Platform	SK1214D
	Thermo Scientific Solaris 12 x 14 Dual Stack Universal Platform – upgrade kit (one 12 x 14 Platform, screws, supporting rods)	SK1214DK
	Thermo Scientific Solaris 18 x 18 Universal Platform	SK1818
	Thermo Scientific Solaris 18 x 18 Dual Stack Universal Platform	SK1818D
	Thermo Scientific Solaris 18 x 18 Dual Stack Universal Platform – upgrade kit (one 18 x 18 Platform, screws, supporting rods)	SK1818DK
	Thermo Scientific Solaris 18 x 24 Universal Platform	SK1824
Solaris 4000	Thermo Scientific Solaris 18 x 30 Universal Platform	SK1830
	Thermo Scientific Solaris 18 x 30 Dual Stack Universal Platform	SK1830D
	Thermo Scientific Solaris 18 x 30 Dual Stack Universal Platform – upgrade kit (one 18 x 30 Platform, screws, supporting rods)	SK1830DK
	Thermo Scientific Solaris 36 x 24 Universal Platform	SK3624

Accessories for MaxQ 6000 and Solaris Shakers

Accessories - adhesive mats

Description	Maximum rpm*	Cat. No.
High Adhesion Sticky Mat, 200 x 200 mm	400 rpm	75004126
High Adhesion Sticky Mat, 280 x 170 mm	400 rpm	75004127
Low Adhesion Sticky Mat, 200 x 200 mm	200 rpm	75004111
Low Adhesion Sticky Mat, 280 x 170 mm	200 rpm	75004117
Sticky Mat, 140 x 140 mm	225 rpm	88881126
Sticky Mat, 230 x 230 mm	250 rpm	300349

* See Manual for suitability of your labware material at maximum shaking speed.



Accessories - shaker flask clamps

Description	12 x 14 UP SK1214	18 x 18 UP SK1818	18 x 24 UP SK1824	18 x 30 UP SK1830	36 x 24 UP SK3624	12 x 14 DS SK1214D	18 x 18 DS SK1818D	Cat No.
10 ml Erlenmeyer	72	113	157	203	187	140	226	30150BI
25 ml Erlenmeyer	42	64	80	112	187	80	124	30151
50 ml Erlenmeyer	42	64	80	112	187	80	124	30152BI
125 ml Erlenmeyer	15	32	40	46	83	30	52	30153
250 ml Erlenmeyer	9	16	24	28	40	16	32	30154BI
300 ml Erlenmeyer	9	16	20	28	40	16	32	30155
500 ml Erlenmeyer	9	16	20	28	40	16	32	30156BI
1 L Erlenmeyer	4	9	10	14	20	8	16	30157BI
2 L Erlenmeyer	3	6	6	6	11	NA	NA	30158
4 L Erlenmeyer	1	4	4	6	8	NA	NA	30159
5 L Erlenmeyer	1	2	4	5	8	NA	NA	30159B
6 L Erlenmeyer	1	2	2	3	6	NA	NA	30160
2800 ml Fernbach flask	1	4	4	6	8	NA	NA	30162
Low Form Culture Flask 2.5 L	1	1	2	3	6	NA	NA	30161
Flask clamp starter kit*								30129

* Flask Clamp Starter Kit includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (2) 1 L flask clamps, and (2) 2 L flask clamps.

Accessories for MaxQ and Solaris Shakers continued

Accessories - shaker flask clamps

Description	18 x 30 DS SK1830D	11 x 14 SK1114	18 x 18 SK1818*	18 x 18 30110	Cat No.
10 ml Erlenmeyer	402	59	113	113	30150BI
25 ml Erlenmeyer	220	35	64	64	30151
50 ml Erlenmeyer	220	35	64	32	30152BI
125 ml Erlenmeyer	92	15	32	32	30153
250 ml Erlenmeyer	56	7	16	16	30154BI
300 ml Erlenmeyer	56	7	16	16	30155
500 ml Erlenmeyer	56	7	16	16	30156BI
1 L Erlenmeyer	28	4	9	9	30157BI
2 L Erlenmeyer	12	2	5	5	30158
4 L Erlenmeyer	NA	NA	NA	4	30159
5 L Erlenmeyer	NA	NA	NA		30159B
6 L Erlenmeyer	NA	NA	NA	2	30160
2800 ml Fernbach flask	12	1	4	4	30162
Low Form Culture Flask 2.5 L	6	1	1	1	30161
Flask clamp starter kit†					30129

* Solaris Temperature Controlled units.

† Flask Clamp Starter Kit includes: (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (2) 1 L flask clamps, and (2) 2 L flask clamps.

Accessories - square media bottle clamps

Description	12 x 14 SK1214	18 x 18 SK1818	18 x 24 SK1824	18 x 30 SK1830	36 x 24 SK3624	12 x 14 DS SK1214D	18 x 18 DS SK1818D	Cat No.
125 ml square media bottle	12	16	24	28	54	21	32	75004106
250 ml square media bottle	9	16	22	28	52	18	32	75004107
500 ml square media bottle	6	9	12	15	24	11	18	75004108
1000 ml square media bottle	4	9	11	15	24	8	18	75004109

Description	18 x 30 DS SK1830D	11 x 14 SK1114	18 x 18 SK1818	18 x 18 30110	Cat No.
125 ml square media bottle	12	16	24	54	75004106
250 ml square media bottle	9	16	22	52	75004107
500 ml square media bottle	6	9	12	24	75004108
1000 ml square media bottle	4	9	11	24	75004109

Accessories for MaxQ and Solaris Shakers continued

Accessories - test tube racks*

Description	12 x 14 SK1214	18 x 18 SK1818	18 x 24 SK1824	18 x 30 SK1830	36 x 24 SK3624	12 x 14 DS SK1214D	18 x 18 DS SK1818D	Cat No.
10-13 mm 6 x 12 array test tube racks (full)	3	7	10	14	20	6	13	30180BI
14-16 mm 6 x 12 array test tube racks (full)	3	4	6	9	12	6	8	30182
17-20 mm 4 x 10 array test tube racks (full)	3	5	7	9	15	6	8	30184
21-25 mm 4 x 10 array test tube racks (full)	2	3	5	7	9	4	6	30186
26-30 mm 3 x 8 array test tube racks (full)	3	4	6	7	10	5	8	30188
1.5 ml MCT 8 x 12 array tube racks (full)	3	5	7	9	12	6	9	30190
10-13 mm 6 x 6 array test tube racks (half)	8	12	15	21	32	14	24	30181
14-16 mm 6 x 6 array test tube racks (half)	5	9	11	14	20	9	17	30183
17-20 mm 4 x 5 array test tube racks (half)	7	11	14	18	20	13	21	30185
21-25 mm 4 x 4 array test tube racks (half)	6	9	11	14	22	10	17	30187
26-30 mm 3 x 3 array test tube racks (half)	6	9	12	15	24	11	18	30189
1.5 ml MCT 4 x 6 array tube racks (half)	6	10	13	18	24	11	19	30191
10-13 mm 72 place adjustable tube rack	3	4	6	7	14	6	8	236090
16-20 mm 40 place adjustable tube rack	3	4	6	7	14	5	8	236091
21-25 mm 40 place adjustable tube rack	3	3	4	5	9	5	6	236092
26-30 mm 24 place adjustable tube rack	3	3	4	6	9	5	6	236093

* 17-20 mm and 16-20 mm test tube racks will fit a 15 mL conical tube. 26-30 mm test tube racks will fit a 50 mL conical tube.

Accessories - test tube racks**

Description	18 x 30 DS SK1830D	11 x 14 SK1114	18 x 18 PN 30110	Cat No.
10-13 mm 6 x 12 array test tube racks (full)	26	3	6	30180BI
14-16 mm 6 x 12 array test tube racks (full)	16	2	4	30182
17-20 mm 4 x 10 array test tube racks (full)	18	2	5	30184
21-25 mm 4 x 10 array test tube racks (full)	13	1	3	30186
26-30 mm 3 x 8 array test tube racks (full)	13	2	4	30188
1.5 ml MCT 8 x 12 array tube racks (full)	17	2	5	30190
10-13 mm 6 x 6 array test tube racks (half)	40	6	12	30181
14-16 mm 6 x 6 array test tube racks (half)	26	2	6	30183
17-20 mm 4 x 5 array test tube racks (half)	34	4	8	30185
21-25 mm 4 x 4 array test tube racks (half)	25	2	6	30187
26-30 mm 3 x 3 array test tube racks (half)	30	4	9	30189
1.5 ml MCT 4 x 6 array tube racks (half)	34	3	8	30191
10-13 mm 72 place adjustable tube rack	14	2		236090
16-20 mm 40 place adjustable tube rack	14	2		236091
21-25 mm 40 place adjustable tube rack	10	1		236092
26-30 mm 24 place adjustable tube rack	12	1		236093

**17-20 mm and 16-20 mm test tube racks will fit a 15 mL conical tube. 26-30 mm test tube racks will fit a 50 mL conical tube.

Accessories for MaxQ and Solaris Shakers continued

Accessories - beaker racks

Description	12 x 14 SK1214	18 x 18 SK1818	18 x 24 SK1824	18 x 30 SK1830	36 x 24 SK3624	12 x 14 DS SK1214D	Cat No.
30 ml - 36 position - 11 x 14 in.	1	NA	NA	NA	NA	2	75004116
50 ml - 28 position - 11 x 14 in.	1	NA	NA	NA	NA	2	75004129
100 ml - 16 position - 11 x 14 in.	1	NA	NA	NA	NA	2	75004118
250 ml - 9 position - 11 x 14 in.	1	NA	NA	NA	NA	2	75004119
400 ml - 8 position - 11 x 14 in.	1	NA	NA	NA	NA	2	75004120
600 ml - 5 position - 11 x 14 in.	1	NA	NA	NA	NA	2	75004121
30 ml - 32 position - 9 x 18 in.	NA	2	2	3	4	NA	75004110
50 ml - 24 position - 9 x 18 in.	NA	2	2	3	4	NA	75004128
100 ml - 15 position - 9 x 18 in.	NA	2	2	3	4	NA	75004112
250 ml - 8 position - 9 x 18 in.	NA	2	2	3	4	NA	75004113
400 ml - 6 position - 9 x 18 in.	NA	2	2	3	4	NA	75004114
600 ml - 4 position - 9 x 18 in.	NA	2	2	3	4	NA	75004115

Accessories - beaker racks

Description	18 x 18 DS SK1818D	18 x 30 DS SK1830D	11 x 14 SK1114	18 x 18 PN 30110	Cat No.
30 ml - 36 position - 11 x 14 in.	NA	NA	1	NA	75004116
50 ml - 28 position - 11 x 14 in.	NA	NA	1	NA	75004129
100 ml - 16 position - 11 x 14 in.	NA	NA	1	NA	75004118
250 ml - 9 position - 11 x 14 in.	NA	NA	1	NA	75004119
400 ml - 8 position - 11 x 14 in.	NA	NA	1	NA	75004120
600 ml - 5 position - 11 x 14 in.	NA	NA	1	NA	75004121
30 ml - 32 position - 9 x 18 in.	4	6	NA	2	75004110
50 ml - 24 position - 9 x 18 in.	4	6	NA	2	75004128
100 ml - 15 position - 9 x 18 in.	4	6	NA	2	75004112
250 ml - 8 position - 9 x 18 in.	4	6	NA	2	75004113
400 ml - 6 position - 9 x 18 in.	4	6	NA	2	75004114
600 ml - 4 position - 9 x 18 in.	4	6	NA	2	75004115



Accessories for MaxQ and Solaris Shakers continued

Accessories - vessel clamps

Description	12 x 14 UP SK1214	18 x 24 UP SK1824	18 x 30 UP SK1830	36 x 24 UP SK3624	12 x 14 DS SK1214D	18 x 18 DS SK1818D	Cat No.
Single height adj clamp 11 x 14 in.	NA	NA	NA	NA	NA	NA	75004104
Dual height adj clamp 12 x 14 in.	1	1	2	2	NA	2	75004102
Dual height adj clamp 18 x 18 in.	NA	1	1	2	NA	NA	75004103
Single vessel adjustable clamp	4	6	8	12	6	8	75004101
Separatory funnel - horizontal	2	4	5	7	2	5	75004125
Separatory funnel - vertical mount	4	6	8	12	NA	NA	75004125

Accessories - vessel clamps

Description	18 x 30 DS SK1830D	11 x 14 UP SK1114	18 x 18 UP SK1818	18 x 18 PN 30110	Cat No.
Single height adj clamp 11 x 14 in.	NA	1	NA	NA	75004104
Dual height adj clamp 12 x 14 in.	4	NA	1	1	75004102
Dual height adj clamp 18 x 18 in.	2	NA	1	1	75004103
Single vessel adjustable clamp	16	2	4	4	75004101
Separatory funnel - horizontal	9	NA	3	3	75004125
Separatory funnel - vertical mount	NA	NA	4	4	75004125

Accessories - vessel clamps

Description	12 x 14 UP SK1214	18 x 18 UP SK1818	18 x 24 UP SK1824	18 x 30 UP SK1830	36 x 24 UP SK3624	12 x 14 DS SK1214D	18 x 18 DS SK1818D	Cat No.
Microplate/deep-well plate	7	12	16	22	36	14	24	30175

Accessories - vessel clamps

Description	18 x 30 DS SK1830D	11 x 14 UP SK1114	18 x 18 UP SK1818	13 x 11 UP 30105	18 x18 PN 30110	13 x11 PN 30100	Cat No.
Single height adj clamp 11 x 14 in.	42	6	10	5	10	5	30175

Accessories - miscellaneous

Description	Cat No.
Platform spare part kit for SK2000	SK0100
Platform spare part kit for SK4000	SK0101
Clamp spare kit (screws)	SK0010
Screwdriver for accessories	75004131
Set of O-rings	75004132

High Capacity Stackable Temperature Control Shakers

MaxQ 8000 Incubated and Refrigerated Stackable Shakers



Maximize your lab space and production with high-performance incubators that offer flexible capacity in a convenient stackable design.

Easy-to-maintain design

- Stainless-steel interior with rounded 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

Convenient operation

- Units can be stacked two to three high for space savings with a speed range of 25 to 400 rpm $\pm$ 1 rpm
- Chamber is tall enough to accommodate 2 L Erlenmeyer flasks
- Ergonomically designed fold down door and a platform that slides out 100% with a maximum platform height of 61 in. (154.9 cm) when stacked three units high improves sample handling

Enhanced performance

- Optional 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
- Standard remote alarm contacts allow convenient monitoring of alarm conditions from another location
- User interface displays both set and actual run conditions to simplify programming and prevent entry error
- Standard warranty coverage includes 2 years labor, 5 years parts, and 10 years drive mechanism

Stacking kit and platform are included with every unit. Accessories can be found on pages 27 - 28.

MaxQ 8000 Incubated and Refrigerated Stackable Shakers specifications

Model	Speed range*	Orbit diameter in. (mm)	Max load* lb. (kg)	Temperature range (°C)	Overall dimensions in. (cm) without platform			Regulatory certificates
					L	W	H	
MaxQ 8000 Incubated	25 – 400 $\pm$ 1 rpm	1 (25.4)	71 lb (32.2)	Ambient+10 to 60	33.3 (84.6)	46.5 (118.1)	25 (63.5)	UL, cUL, CE
MaxQ 8000 Refrigerated	25 – 400 $\pm$ 1 rpm	1 (25.4)	71 lb (32.2)	Ambient-5 to 60	33.3 (84.6)	56.5 (143.5)	25 (63.5)	UL, cUL, CE

MaxQ 8000 Incubated and Refrigerated Stackable Shakers ordering information

Model	Description	Cat. No.
MaxQ 8000 Incubated	MaxQ 8000 Stackable Incubated Shaker, 120 V, 60 Hz	SHKE8000
	MaxQ 8000 Stackable Incubated Shaker, 230 V, 50 Hz	SHKE8000-1CE
	MaxQ 8000 Stackable Incubated Shaker, 100 V, 50 Hz	SHKE8000JPN
MaxQ 8000 Refrigerated	MaxQ 8000 Stackable Incubated and Refrigerated Shaker, 120 V, 60 Hz	SHKE8000-7
	MaxQ 8000 Stackable Incubated and Refrigerated Shaker, 230 V, 50 Hz	SHKE8000-8CE
	MaxQ 8000 Stackable Incubated and Refrigerated Shaker, 100 V, 50 Hz	SHKE8000-7JPN

Shaker and accessory bundles

Model	Description	Cat. No.
MaxQ 8000 Incubated	MaxQ 8000 Incubated Stackable Shaker, 120 V, with 29.5 x 18 in. platform and clamp starter package	SHKE8000PROMO
	MaxQ 8000 Incubated Stackable Shaker, 230 V, with 29.5 x 18 in. platform and flask clamp starter kit	SHKE8000-1CEPR
MaxQ 8000 Refrigerated	MaxQ 8000 Incubated and Refrigerated Stackable Shaker, 120 V, with 29.5 x 18 in. platform and clamp starter package	SHKE8000-7PROMO
	MaxQ 8000 Incubated and Refrigerated Stackable Shaker, 230 V, with 29.5 x 18 in. platform and flask clamp starter kit	SHKE8000-8CEPR

Optional platforms

Model	Description	Cat. No.
SHKE8000	MaxQ 29.5 x 18 in. Universal Platform for SHKE8000	238061

Miscellaneous Accessories

Model	Description	Cat. No.
SHKE8000	Replacement screws: (50) #10-24 x 5/16 in. 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 in. hex socket set screws	194046
SHKE8000	Replacement screws (50) #10-24 x 5/16 in. countersink Phillips head screws for mounting tube holders to platform	194024
SHKE8000	Stand for one shaker: 45.5 x 29.6 x 35.3 in. with 30.6 in. max height with leveling feet extended	194222
SHKE8000	Stand for two shakers: 45.5 x 11.8 x 30.5 in. with 12.8 in. max height with leveling feet extended	194223
SHKE8000	Door glass cover to prevent light from entering through window	194224
SHKE8000	7 Day recorder 0 to 100° C, 6 in., 115 V, 50/60 Hz	201126
SHKE8000	7 Day recorder 0 to 100° C, 6 in., 220 V, 50/60 Hz	201127
SHKE8000	Four channel Sensaphone telephone dialing system 120 V, 60 Hz	400047
SHKE8000	Eight channel Sensaphone telephone dialing system 120 V, 60 Hz	400134

High Capacity CO₂ Resistant Shakers

MaxQ High Performance (HP) CO₂ Resistant Shakers

Designed for use in a variety of settings, from the bench, to reach-in incubators, to environmental rooms, these shakers feature a wide-range speed, low heat output motor and spill-resistant design.

Flexible operation

- 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
- Microprocessor controller displays run and setpoints simultaneously on a 20-character backlit display
- Easy programming with icon-based keys and alphanumeric messages
- Optional platforms are constructed of 0.31 in., heavy-duty, brushed anodized aluminum for durability and easy cleaning

Durable performance

- Low heat 24V DC motor with moisture resistant electronics provides continuous maintenance-free operation on the benchtop or in a chamber
- The proprietary, heavy-duty, triple counter-balanced eccentric drive allows extended speed ranges while preventing vibration, allowing the unit to run smoothly with heavy, out-of-balance loads
- Oversized, adjustable suction cup feet minimize vibration
- Standard warranty coverage includes 2 years labor, 5 years parts, and 10 years drive mechanism

Accessories can be found on pages 27 - 28.



MaxQ HP CO₂ Resistant Shakers specifications

Model	Speed range*	Orbit diameter in. (cm)	Total weight lb. (kg)	Max load* lb. (kg)	Overall dimensions in. (cm) without platform			Regulatory certificates
					L	W	H	
MaxQ 416 HP	25 – 525 ±1 rpm	1 (2.54)	138 lb (62.7)	71 lb (32.2)	30.5 (77.5)	25.5 (64.8)	7.8 (19.8)	UL, cUL, CE

Ordering Information - Shakers

Model	Description	Cat. No.
MaxQ 416 HP	MaxQ HP High Performance CO ₂ Resistant shaker without platform, 115 V, 50/60 Hz	SHKE416HP
	MaxQ HP High Performance CO ₂ Resistant shaker without platform, 230 V, 50/60 Hz	SHKE416-1CE

Optional Platforms

Model	Description	Cat. No.
MaxQ 416 HP6	MaxQ 18 x 18 Universal Platform	238000
	MaxQ 24 x 18 Universal Platform	238008

Miscellaneous Accessories

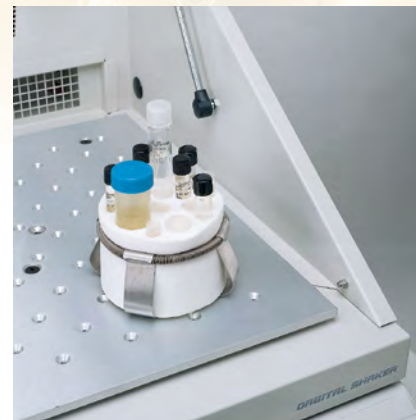
Model	Description	Cat. No.
MaxQ 416 HP	Small Utility Tray, 9 x 18 in. (22.9 cm x 45.7 cm) with 0.5" (13 mm) thick rubber pad	236026
	Large Utility Tray, 18 x 18 in. (45.7 cm x 45.7 cm) with 0.5" (13 mm) thick rubber pad	236027
	Quick change platform adapter	194040
	Four channel Sensaphone telephone dialing system 120 V, 60 Hz	400047
	Eight channel Sensaphone telephone dialing system 120 V, 60 Hz	400134
	Replacement screws for mounting test tube holders, (50) #10-24 x 3/8 in. pan head phillips screws	194024
	Replacement screws for clamps and platforms, (50) #10-24 x 5/16 in. countersink phillips head screws and (12) 1/4-20 x 3/4 in. countersink flat head socket screws	194046

Accessories for MaxQ 8000 and MaxQ 416 HP CO₂ Resistant Shakers

Accessories - adhesive mats

Description	Maximum rpm*	Cat. No.
High Adhesion Sticky Mat 200 x 200 mm	400 rpm	75004126
High Adhesion Sticky Mat 280 x 170 mm	400 rpm	75004127
Low Adhesion Sticky Mat 200 x 200 mm	200 rpm	75004111
Low Adhesion Sticky Mat 280 x 170 mm	200 rpm	75004117
Sticky Mat 140 x 140 mm	225 rpm	88881126
Sticky Mat 230 x 230 mm	250 rpm	300349

* See Manual for suitability of your labware material at maximum shaking speed.



Accessories - shaker flask clamps

Description	29.5 x 18 238001	18 x 18 238000	24 x 18 238008	29.5 x 18 238061	Cat No.
25 ml Erlenmeyer	91	49	80	91	236010
50 ml Erlenmeyer	91	49	80	91	236011
100 / 125 ml Erlenmeyer	39	25	40	39	236012
250 / 300 ml Erlenmeyer	30	18	25	30	236013
500 ml Erlenmeyer	24	16	20	24	236014
1 L Erlenmeyer	12	8	12	12	236015
2 L Erlenmeyer	11	6	8	11	236016
4 L Erlenmeyer	6		5		236017
5 L Erlenmeyer	6		4		236028
6 L Erlenmeyer	4		4		236018
2800 ml Fernbach flask	6	4	5	6	236019
Flask clamp starter kit†					236099

† Flask Clamp Starter Kit includes: (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1 L flask clamps, (2) 2 L flask clamps.

Accessories for MaxQ 8000 and MaxQ 416 HP CO₂ Resistant Shakers

continued

Accessories - test tube racks

Description	29.5 x 18 238001	18 x 18 238000	24 x 18 238008	29.5 x 18 238061	Cat No.
10-13 mm 3-7 ml adjustable test tube racks with holder (72 position)	4	4	6	5	600076
16-20 mm 10-20 ml adjustable test tube racks with holder (40 position)	4	4	6	4	600077
21-25 mm 30 ml adjustable test tube racks with holder (40 position)	3	3	5	4	600078
26-30 mm 50 ml adjustable test tube racks with holder (24 position)	3	3	5	4	600079
Universal adjustable tube rack holder					600088
10-13 mm 3-7 ml universal test tube racks no holder included (72 position)	3	3	4	5	950040
16-20 mm 10-20 ml universal test tube racks no holder included (40 position)	3	3	4	4	950060
21-25 mm 30 ml universal test tube racks no holder included (40 position)	2	2	3	4	600074
26-30 mm 50 ml universal test tube racks no holder included (24 position)	2	2	3	4	600075
Pack of 5 vial/tube inserts for use in 1 L Flask Clamps	12	8	12		161033

† Solaris Temperature Controlled units.

Accessories - plate rack

Description	29.5 x 18 238001	18 x 18 238000	24 x 18 238008	29.5 x 18 238061	Cat No.
Microplate/Deep-well Plate	18	10	16	18	236025
Microplate rack for standard plates (3 shelves)	7 racks, 63 plates	4 racks, 36 plates	5 racks, 45 plates	7 racks/63 plates	600090
Microplate rack for deepwell plates (2 shelves)	5 racks, 30 plates	3 racks, 18 plates	4 racks, 24 plates	5 racks/30 plates	600089

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