

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 30 in. / 46 x 76 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 | 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 operated < 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

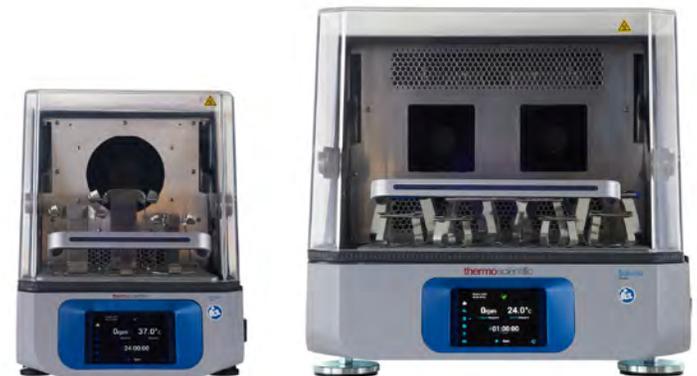
Compatible with GLP/GMP environments

- 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° to 40° C (104° 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 ±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 ±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

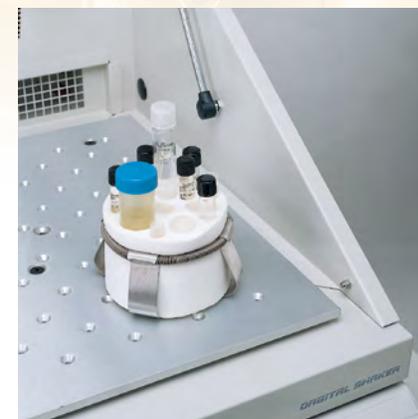
| Model | Description | Cat. No. |
|-------------|--|----------|
| MaxQ 416 HP | Small Utility Tray, 9 x 18 in. (22.9 cm x 45.7 cm) with 0.5" (13 mm) thick rubber pad | 236026 |
| | Large Utility Tray, 18 x 18 in. (45.7 cm x 45.7 cm) with 0.5" (13 mm) thick rubber pad | 236027 |
| | Quick change platform 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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