

thermo scientific



Solaris 2000 and 4000 Series Orbital Shakers

The evolution of shaking. A revolution in productivity.

ThermoFisher
SCIENTIFIC

Raising the bar in shaker performance

Solaris Orbital Shakers set a new standard for reliability and technical innovation. Ruggedly built for demanding use, they combine a new ergonomic design with key feature enhancements that help save you time, protect your process and drive your science forward.

Our triple eccentric drive mechanism is built upon proven technology to easily support heavy loads. The belt is maintenance-free and engineered to last the life of the shaker, and the shaker mechanism itself comes with a 10-year warranty.

Available in two convenient sizes for your benchtop, Solaris Orbital Shakers offer a variety of platforms plus associated flask clamps and tube racks to support virtually any capacity you require. These shakers can operate in microbiological incubators, environmental chambers, or refrigerators to meet a wide range of application requirements.



Choose from a variety of platforms to meet any application challenge.



Solaris 2000 18x18



Solaris 2000 18x24



Solaris 4000 18x30



Solaris 4000 24x36

Efficient operation

Advanced user interface with powerful user programming

Users can quickly and securely program Solaris Orbital Shakers, storing unique routines and setpoints for future reuse. This built-in efficiency helps save time while optimizing shaker resources.

The only touch screen user interface in its class is easy to read and simple to operate. The full-color touchscreen display allows you to clearly view speed and runtimes concurrently, even from a distance. It also offers historical monitoring of alerts, alarms and interaction logs to provide greater security and reproducibility for your work. With Solaris Orbital Shakers, you can set, run and monitor vital statistics each with a touch on the screen. Graphing capabilities allow you to monitor the history of your run.



Users can conveniently program speed and time on the Solaris Orbital Shakers, optimizing shaker resources and enabling consistency across runtime operations.



The large, bright user interface lets you easily monitor setpoints and status conditions from across the lab.

Connect effortlessly in the Cloud

Keeping close watch on your valuable solutions 24/7 from anywhere is about to get easier. Soon, your Solaris Orbital Shakers will be able to Cloud-connect to other key Thermo Scientific equipment including incubators and environmental chambers. With Solaris Orbital Shakers, you'll be ready to grow with us as we revolutionize integrated laboratory equipment.

Using mobile tools, you will be able to connect to your cloud-enabled Solaris Orbital Shakers from the Thermo Fisher Scientific Cloud to monitor setpoints and performance. Contact Thermo Fisher Scientific for availability.

Designed for easy maintenance

Easy shaker maintenance simplifies your day

Solaris Orbital Shakers offer easy-to-remove platforms that make cleaning fast and easy. Featuring rounded corners, you can clean the unit quickly and completely with confidence. The sleek design that enables low maintenance also protects the motor and drive mechanism for longer service life.

Building on more than 40 years of experience in shaker technology, Solaris Orbital Shakers are designed in Germany and manufactured in the United States, to deliver worry-free performance you can rely on. A full 10-year warranty is offered for the drive mechanism, plus a 5-year warranty on parts, and a two-year warranty on labor.

Solaris Orbital Shakers are designed with rounded corners, and platforms are removable for easy cleaning.



Your compact, versatile, *quiet* benchtop companion

Solaris Orbital Shakers feature a small footprint that help save valuable benchtop space. Engineered to perform with a reduced noise level in a wide range of environments, units operate in a temperature range of 5°C to +40°C and humidity conditions from 20 to 80% non-condensing.

- Solaris 2000 Series shakers ship with a 12 x 14 inch (30.5 x 35.6 cm) universal platform
- Solaris 4000 Series shakers ship with a 18 x 30 inch (76.2 x 45.7 cm) universal platform
- Additional platform sizes and dual stacks are also available.

See the Accessories section on page 8 for additional platforms and clamp sizes.



Ordering and specification tables

Model	Model No.	Speed Range	Orbit diameter In. (cm)	Max. load ¹ lb. (kg)	Overall dimensions in. (cm) without platform			Electrical Requirements
					L	W	H	
Thermo Scientific Solaris 2000	SK2000	15 to 525 +/- 1 rpm	1 (2.54)	55 (25)	18.5 (46.9)	14.3 (36.4)	5.5 (14.1)	100–240 V, 50 / 60 Hz
Thermo Scientific Solaris 4000	SK4000	15–525 rpm +/- 1 rpm	1 (2.54)	95 (43)	25.5 (64.8)	22.6 (57.3)	7.0 (17.7)	100–240 V, 50 / 60 Hz

Platform	Model No.	Supported by:
Thermo Scientific Solaris 12x14 Universal platform	SK1214	Solaris 2000
Thermo Scientific Solaris 12x14 Dual Stack Universal platform	SK1214D ²	Solaris 2000
Thermo Scientific Solaris 12x14 Dual Stack Universal platform – upgrade kit (one 12x14 platform, screws, supporting rods)	SK1214DK ²	Solaris 2000
Thermo Scientific Solaris 18x18 Universal platform	SK1818	Solaris 2000
Thermo Scientific Solaris 18x18 Dual Stack Universal platform	SK1818D ²	Solaris 2000
Thermo Scientific Solaris 18x18 Dual Stack Universal platform – upgrade kit (one 18x18 platform, screws, supporting rods)	SK1818DK ²	Solaris 2000
Thermo Scientific Solaris 18x24 Universal platform	SK1824	Solaris 2000
Thermo Scientific Solaris 18x30 Universal platform	SK1830 ²	Solaris 4000
Thermo Scientific Solaris 18x30 Dual Stack Universal platform	SK1830D	Solaris 4000
Thermo Scientific Solaris 18x30 Dual Stack Universal platform – upgrade kit (one 18x30 platform, screws, supporting rods)	SK1830DK ²	Solaris 4000
Thermo Scientific Solaris 36x24 Universal platform	SK3624	Solaris 4000
Clamp spare kit (screws)	SK0010	
Platform spare part kit for SK2000 (platform screws, tool, threadlocker)	SK0100	
Platform spare part kit for SK4000 (platform screws, tool, threadlocker)	SK0101	

¹Maximum **speed** is dependent on **Load** and platform. Please see the manual for maximum **speed by weight** information.

²Please see the manual for additional information on speed and load limitation for dual stack platforms.

