

High-pressure steam sterilizer

We offer high-pressure steam sterilizers backed with high quality and dependable service. Our sterilizers deliver full-automated processes to suit specific requirements. Products are available for various apparatuses, culture media, soil, and other specific uses of sterilization. Different heat sources and a variety of options can be selected to suit your particular requirements.



Medium-sized high-pressure steam sterilizer

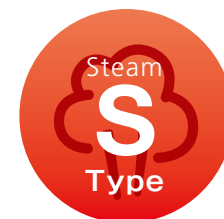
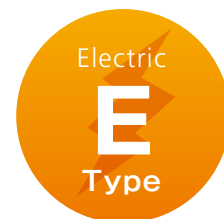


Large-sized high-pressure steam sterilizer



Loading trolley

Heat sources



Pressure vessels



We meet the strict standards of the Japanese Industrial Safety and Health Law.

Control system

All processes (heating - sterilizing - steam drainage - completion) are fully automated. Progress of the sterilization process is displayed with indicators. To deliver easy door opening, the pressure-reduction prevention system comes standard. An automatic water supply system and an empty-water-heating prevention device are also standard fitments for electric and gas types.

Options

A variety of options are available for each series according to your needs, such as customized control systems with PLC and a touch screen, loading trolleys, and customized trays.

Customization

We always welcome your special requests to suit particular requirements, such as data logging and special control design. In addition, carry-in routes, installation spaces, and other delivery-related requirements can also be designed flexibly to suit your needs.



Shaker, Incubator shaker High-pressure steam sterilizer

www.preci.co.jp

Contact for inquiries

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Shaker, Incubator shaker High-pressure steam sterilizer



Shaker and Incubator shaker

Since entering the industry, we have been rapidly become known as one of Japan's industry-leading companies. By taking advantage of utilizing our leading-edge technology, we have contracted and installed our shakers at majority of Japanese universities, research institutions, and private companies, as well as overseas organizations. In particular, our large-capacity and high-speed motion shakers are regarded as the best for their unsurpassed robustness and stability. Our lineup includes products for microbiological and cell culturing/aeration, solubility studies, and leachate analyses. Our technology of 70mm shaking diameter and high-speed shaking motion delivers the highest oxygen transfer available.



Shaking modes



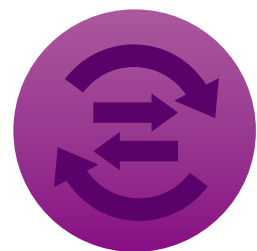
Reciprocal mode PRA Series



Orbital mode PRB Series



Test tube reciprocal mode PRC Series



Multi-way mode PRXY Series

The shaking mode can be switched between reciprocal and orbital motion, and the shaking diameter is also adjustable.

Standard specifications

PRA Series

Capacity 9-336 (max.) x 500ml flasks
Shaking speed 50-180rpm
Shaking diameter up to 70mm

PRB Series

Capacity 9-300 (max.) x 500ml flasks
Shaking speed 50-250rpm
Shaking diameter up to 70mm

PRC Series

Capacity 50-1500 (max.) x φ18mm test tubes
Shaking speed 50-350rpm
Shaking diameter up to 20mm
Test tube holder Basket type (CK type)
 Panel-fixed-type (H type)

PRXY Series

Capacity 9-162 (max.) x 500ml flasks
Shaking speed Reciprocal mode:50-180rpm
 Orbital mode:50-230rpm
 Test tube reciprocal mode:50-350rpm
Shaking diameter Reciprocal and Orbital mode:up to 70mm
 Test tube reciprocal mode:20mm

Special-use shakers

Leachate analysis shaker for industrial waste



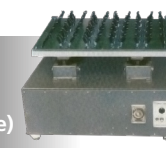
Capacity 9 x 3L flasks
Shaking speed 50-220rpm
Shaking diameter 45mm

Leachate analysis shaker for soil samples (Thermostatic type)



Capacity 200 x PE 100ml bottles (50 bottles x 4 levels)
Shaking speed 50-200rpm
Shaking diameter 45mm

Leachate analysis shaker for soil samples (Open type)



Capacity 16 x PE 1L conical flasks, or 9 x PE 2L conical flasks
Shaking speed 50-220rpm
Shaking diameter 45mm

Temperature control

20°C below ambient to 80°C

Thermostatic type

The operating temperature range is wide, from 20 °C below ambient to 80 °C (min. 4 °C). *Ambient temperature: 10-35°C

Open

Open type

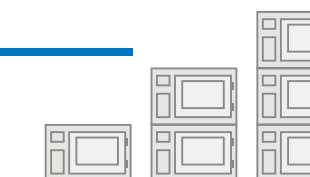
Shaking function only. For installations in temperature-controlled rooms.

Thermostatic type - Basic specifications

Temperature control: PID control SSR type thermo-controller, Pt-100 temperature sensor, Fin heater, Refrigerator, Circulation fan
 Safety control : Short circuit breaker, Open door/Lid cut-off switch, Overtemperature protection, Overheat protection in refrigerator
 Alarm : Control panel alarm display (overtemperature, fan abnormality, refrigerator abnormality, V-belt abnormality), alarm buzzer

Stacking

Our standard thermostatic models with capacity ranging from 9 to 30 flasks can be selected as stackable designs (maximum stacking of three stages). This system offers large capacity within a small footprint.

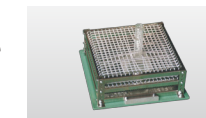


Accessories

A variety of options can be selected for installation on our universal platform.

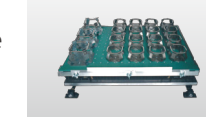
Spring band rack

Various types of flasks, tubes, beakers, and chips can be placed and stabilized with spring bands.



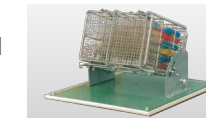
Tailored panel

Holders and clamps for special attachment requirements are available.



Test tube rack

The capacity of 50 to 100 tubes can be attached to the rack, and stabilized with spring bands. The angle of the rack is adjustable.



Customization

We always welcome your special requirements, such as a variety of monitoring systems, in-flask gassing, photosynthetic lighting, UV germicidal lighting, data logging, PC remote control, and special control design for more complex mixtures.