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Use the step-down transformer except for some models.
Step-down transformers can be sold as a set at the time of estimation.

NEW

Constant temperature incubator shaker OD Monitor

For cell culture related products

Shaker

Mixer Rotator Stirrer

Bead beater Ultrasonic homogenizer

Aluminum block Bath Mini-size Bath

Water bath Staking Water bath Immersion cooler

Hybridization Incubator Consistent temperature Chambers

Centrifugal Concentrators Cold Trap

Freeze dryers

Substrate Electrophoresis apparatus Blotting device for hybridization

Constant-temperature water circulating system [Chiller]

Appendix



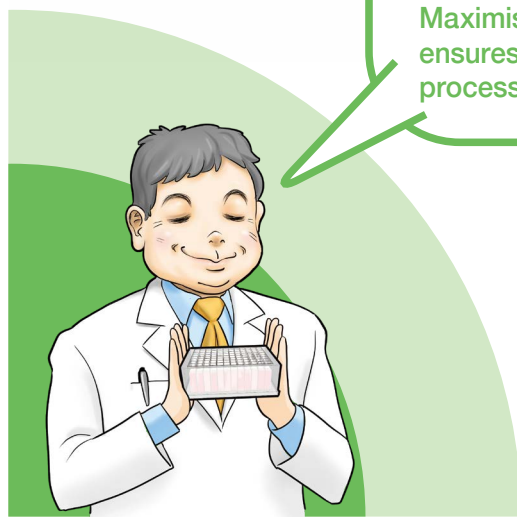
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*Optimum for Well plate, Microtube rack, and Vial.
For Type R, it is possible to control Temp below R.T.
For Multi-specimen processing that requires high-speed micro vibrations.*



Constant temperature incubator shaker for Well plate (Compact size)
Maximizer MBR-022R/022K

Actually, it is very difficult to stir the liquid in the Deep well plates evenly, but with this Maximiser, the new technology "S-Max drive" ensures that up to 2 plates can be processed simultaneously!



For more information

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*Stirs 96-well plates and Microtubes securely.
Simple and Easy-to-use for each operation.*



TAITEC's New Brand
[NEXT]



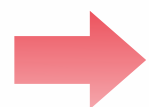
Shakers for Well plates and Microtubes
Micro Mixer E-022

Horizontal eccentric shaking of E-022 is a method designed where multiple parallel microtubes are evenly hung for a stirring effect similar to Test tube mixers in which the tubes are stirred one by one.



For more information

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NEW

Constant temperature incubator/shaker OD Monitor

For cell culture related products

Shaker

Mixer Rotator Stirrer

Bead beater homogenizer Ultrasonic homogenizer

Aluminum block Bath Mini-size Bath

Water bath Shaking Water bath Immersion cooler

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Constant temperature incubator/shaker
OD Monitor

For cell culture related products

Shaker

Mixer
Rotator
Stirrer

Bead beater
homogenizer
ultrasonic
homogenizer

Aluminum block Bath
Mini-size Bath

Water bath
Shaking Water bath
Immersion cooler

Hybridization
Incubator
Consistent temperature
Chambers

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Electrophoresis apparatus
blotting device for
hybridization

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water circulating
system [Chiller]

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Simple operation that anyone can use.
Non-direct drive ensures stable rotation speed from low to high speed.



TAITEC's New Brand [NEXT]



Rotating Incubator (Small size)
Rotator RT-025R/050R

"Non-direct drive structure" is provided with a gear between the rotating shaft and the motor shaft to reduce the direct load on the motor. This structure ensures stable rotation from low to high speeds, and also improves quietness and durability.



For more information

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Simple operation that anyone can use.
CTU-R is electronically cooled with Peltier elements.
Its memory function can recall frequently used temperatures.



TAITEC's New Brand
 [NEXT]



Aluminum block Bath

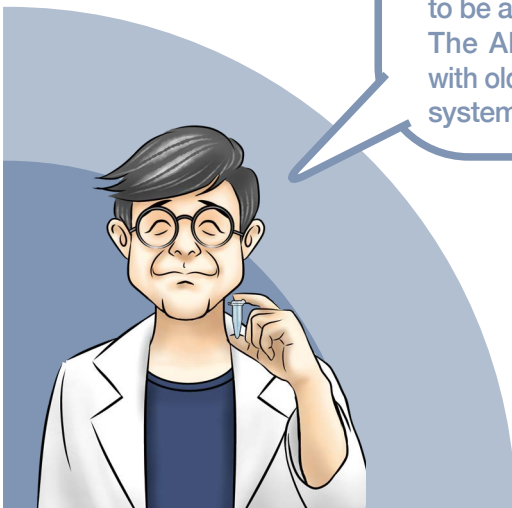
Dry/Cool Thermo Unit DTU-R/CTU-R

You can choose from a wide variety of Aluminum block types, so it has an advantage to be able to support a lot of different vessels. The Aluminum Blocks are also compatible with older models, so any existing experimental system can continue as before.



For more information

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Constant temperature Incubator/shaker OD Monitor

For cell culture related products

Shaker

Mixer Rotator Stirrer

Bead beater homogenizer Ultrasonic

Aluminum block Bath Mini-size Bath

Water bath Staking Water bath Immersion cooler

Hybridization Incubator Constant temperature Chambers

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Freeze dryers

Submarine Electrophoresis apparatus Blotting device for hybridization

Constant-temperature water circulating system [Chiller]

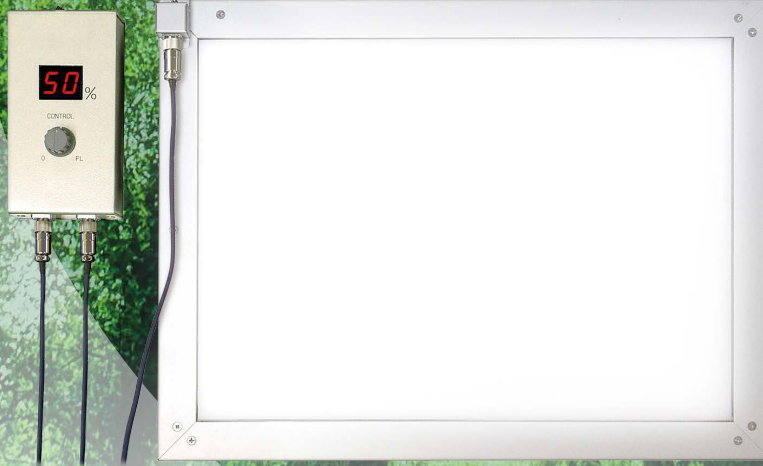
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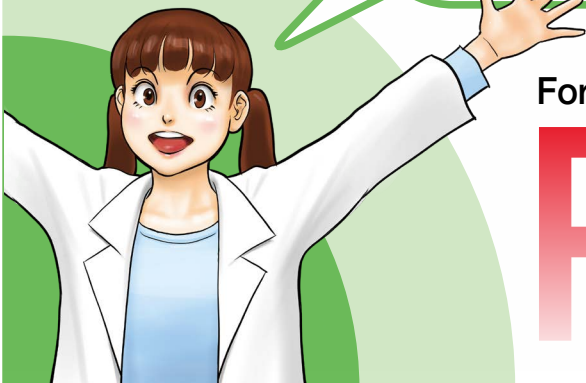
This is an option to update TAITEC's incubator shakers, etc. to irradiation incubators.

Can be installed on medium to large Bioshakers and shakers, as well as constant temperature chambers.



LED irradiation unit LC-450EXP

It contains 450 nm which is the main absorption wavelength of chlorophyll as the primary peak and also contains the required intensity around 660 to 740 nm. Optimum as a substitute for white fluorescent light as an upgrade.



For more information

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Aluminum block Bath Mini-size Bath

Water bath Shaking Water bath Immersion cooler

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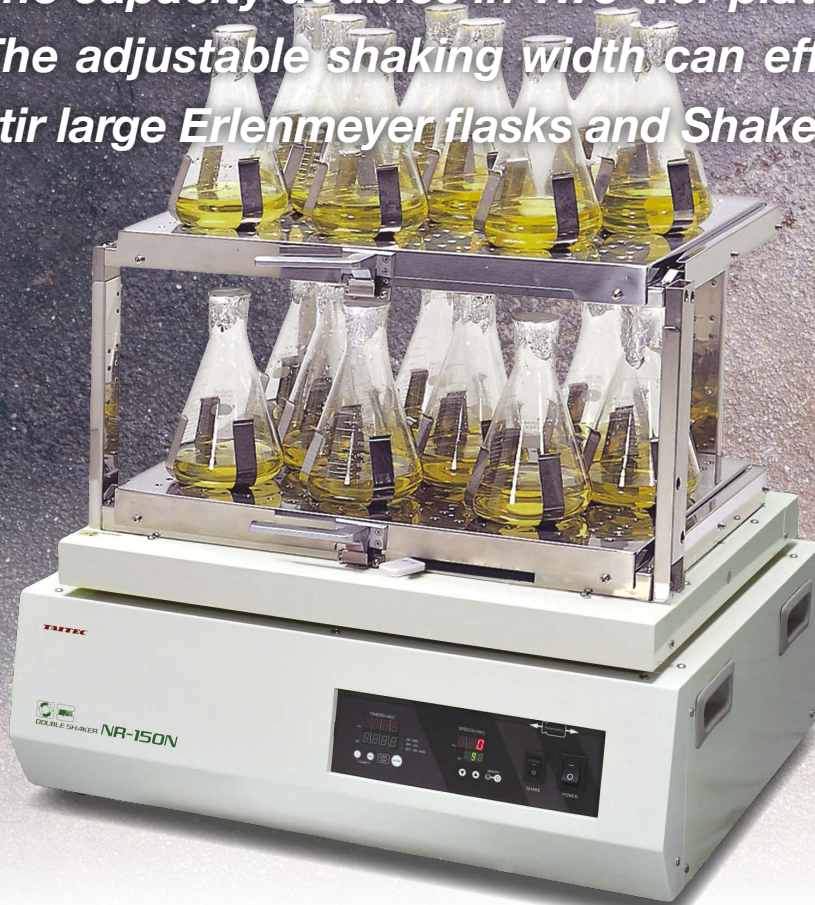
Substrate Electrophoresis apparatus Blotting device for hybridization

Constant temperature water circulating system [Chiller]

Appendix

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*Being placed on the floor for use.
Switchable Reciprocal/Orbital shaking.
The capacity doubles in Two-tier platform.
The adjustable shaking width can effectively
stir large Erlenmeyer flasks and Shake flasks.*



Large Shakers

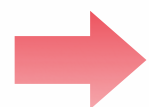
Double shaker NR-150N/Two-tier platform NR-150N

Up to the 4 optional LED irradiation units (LC-450EXP) can be installed, so it can be used for culturing algae and plant cells that require photosynthesis.



For more information

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The swing incubator is free from CFC, has high accuracy and saves energy. It is a multi-purpose constant-temperature incubator with the temperature range from +15°C to +60°C.



TAITEC's New Brand [NEXT]



Constant-temperature incubator
Swing incubator SW-060

It is CFC-free due to its electronic heating and cooling with Peltier elements. Low vibration because no refrigerator is used. Can be used for constant temperature thawing of delicate solvents.



For more information

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9 Enables the use of four kinds of stirring methods for various vessels by the easy replaceable shaking platform. Two models with different temp. Stackable and saves Space.



Hybridization Oven

Hybridization Incubator HB-80N/100N

By changing the optional Kits, you can choose between Bottle rotation, Seesaw shaking, and Reciprocal shaking, which is a benefit not found in other companies. The space-saving design allows up to three units to be stacked.



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Constant temperature chamber having the double glass door with both heat insulation and visibility that makes it easy to use. Enables the operation of small devices inside the chamber.



Constant temperature Chamber (Middle size)

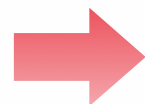
Incubation Box M-210FD

By installing the optional LED irradiation unit (LC-450EXP), it can be transformed into a light-irradiated constant temperature chamber. It can also be used for culturing algae and plant cells that require photosynthesis.



For more information

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The notations and specifications in this catalog

Notation of specifications

©The external dimensions are that the operation panel is assumed as the front; W (width) × D (depth) × H (height) [mm]. Protuberances are not included in the Dimensions.

©The water bath capacity of constant temperature water baths and constant temperature water circulators for closed circuit are described for the numerical value [L] of approx. 80% to the capacity.

The measuring unit of numerical values

Although they conform to International System of Units, some may also have older units listed (some examples on the right table).

Items	International System of Units	Old Units
Cooling capacity	150 [W]	130 [kcal/h]
Ultimate vacuum	0.067 [Pa]	5.1×10^{-4} [mmHg]

Specifications and Appearances, Pictures of Products

The specifications and appearances of products are subject to change without notice for improvement. In addition, the shape and color in detail of such products may slightly change to those of actual products depending on the time.

Temperature range, Temperature control accuracy, and Cooling capacity

The values of Temperature range, Temperature control accuracy, and Cooling capacity in the specification table are the values verified under the fixed environmental conditions (Ambient temperature range is 5°C to 35°C unless otherwise species description. The values of Cooling capacity in Chillers/Circulators is under the circulating fluid temperature 10°C and 50 Hz. These values may vary depending on the environment and operating conditions. Thus, please confirm the remarks on each specification table. Please contact us if you have any questions.

Power supply

AC 100 V Single phase or AC 200 V Three phase.

Customization/Modification of Products (specification change)

When you want to change the specifications of a standard product, you must present to us the details of the part you want to change. Also, the Chillers/Circulators Large CH series in this catalog are oriented to customization/modification. Those that are listed are base models.

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Appendix

NEW

Company Profile



The most important are people and healthy employees

TAITEC's most important policy is that people are priority.

The idea that skills and efforts can only bear fruit on the basis of healthy people has continued to support our growth. Based on this idea, TAITEC has created a wide range of products to enrich people's lives.



■ Scientific Instruments (Experiments/Tests)

Our basic technologies are "temperature control" and "shaking" which were learned in the process of development of scientific instruments. The various instruments resulting from the combination of these technologies are used daily in experimental and research scenes.



■ Incubator Shaker (Experiments/Tests)

In addition to the constant temperature incubator shakers, which have the commanding market share in Japan's domestic market, we have also been focused on the development of CO₂/Multi-gas incubators in recent years by utilizing our expertise in gas control.



Fermented food development (General purpose/Cultivation)

We also contribute to the production of familiar food and drink products, such as cheese and beer.



Wastewater purification (General purpose/Cultivation)

TAITEC contributes to research on wastewater purification technology using microbes. Our products are also related to water, which is indispensable for people's lives.

TAITEC manufactures with "aspiration"

■ Design and development

This department plans and brings new products to fruition. When following existing products, differentiation in terms of performance and price is important, but our goal is to create something that does not yet exist in the world. In this case, it is essential to simultaneously create market awareness (to make people aware of the usefulness of the product).

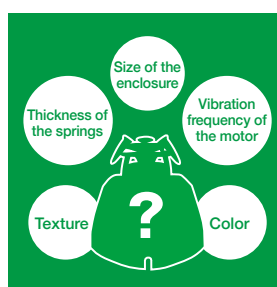


Planning started based on customer feedback

Various projects, such as the mixer project, were started based on customer feedback gathered through visits by our staff and warranty issue application forms. We will continue to formulate and implement various plans to provide better products that reflect customer feedback.

■ From design and development to production quality

We consolidate and share the latest information such as the introduction of new technologies and the establishment of new production methods to realize manufacturing that makes the impossible possible through the fusion of expertise, starting with the production of low-cost/high-quality parts. In terms of perfection, we are pursuing innovative production technologies under the motto "We guarantee products and quality that cannot be achieved elsewhere." The high degree of product perfection and after-sales service is only possible because the products are made in Japan.



Making use of customer feedback to create better products

We make use of customer feedback through repeated verification, prototyping, and solving problems one by one.



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Blotting device for
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water circulating
system (Chillief)

Appendix

We continue to contribute to the development of research and industry.

TAITEC's mission is to "contribute to the development of research and industry."

We have continued to support the research and development of universities, research institutions, and companies, which are the roots of a technological powerhouse, with our instruments and services.

We also have a long history of success in production lines for industries such as semiconductors and chemicals.



■Chiller (Industrial instruments/Temperature control)

Chiller is a generic term for a constant-hot water circulator. As a manufacturer of Chillers for industrial equipment, we have sold a cumulative total of 15,000 Chillers, mainly for semi-conductor manufacturing equipment.



■CO₂ Incubator

An important key to biopharmaceuticals, such as vaccines and antibodies, is the efficiency of cell cultivation. Biopharmaceuticals are attracting the attention of pharmaceutical companies both domestically and internationally as a frontier in drug discovery, and TAITEC's products are working actively in this field.



Cooling of manufacturing equipment (Chiller)

In the manufacturing lines of semiconductor and food processing facilities, Chillers are used to prevent machine breakdowns by cooling the equipment. TAITEC Chillers used on the manufacturing line enable the delivery of products to customers without compromising product quality.



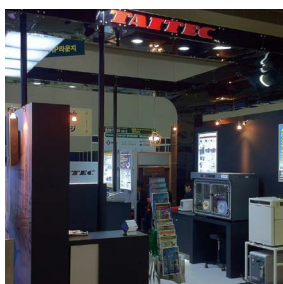
New drug development (General purpose/Cultivation/Biotechnology)

Microbes and cells are grown and multiplied to contribute to the development of new drugs. Penicillin, a well-known antibiotic, is also purified from microbes (blue mold).

Our service system is based on the philosophy of direct connections with customers.

■Advertising planning

The task of advertising planning is to think of ways to connect TAITEC's products with customers and provide them with tools. The advertising planning division is responsible not only for planning projects such as the "PresentMixer" donation, etc. (in Japan only), but also for producing various advertising media and exhibitions as a before-sales service. With the motto "Kind, courteous, and unique", we aim to provide information that is both useful and memorable.



■Before-sales service

We provide customers with the information they need, such as a variety of media (Print media/WEB/Exhibitions etc.), in order to make a purchase decision.

■User-direct services

"If we can convey our gratitude to our customers, they will surely choose TAITEC's products. We believe in this and strive to acquire service skills on a daily basis. We have established an in-house qualification system for the skills required for repairs and validation work, and will continue to develop and evolve our service staff. The motto of our service staff is to ensure that our products are reliable and can be used for a long time. The user-direct service, in which the service staff goes out to the customer even if they are not called, is a feature of TAITEC."

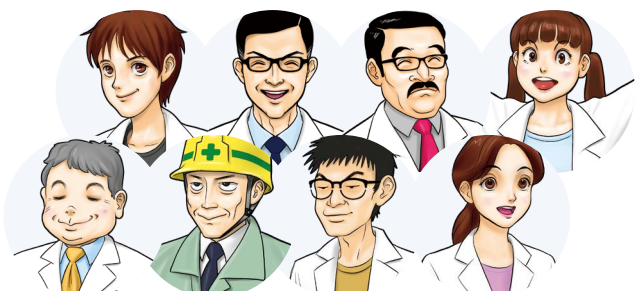


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