



BR-330



BR-330W
(Two-tier Shaking)



BioShaker **BR-330/330W**

Redesigned long-selling large incubator shakers!

Power consumption (Wh) is about **1/7** of conventional models! **Two-tier type** available.

Long-selling large incubator shakers.

- ✓ Shaking is switchable reciprocal/orbital, and shaking width is adjustable.



BR-330 can hold up to 15 pcs of 500mL Erlenmeyer flasks, while the two-tier BR-330W can hold 30 pcs of the same. It can be widely used for experiments that require temperature control and shaking, including shaking cultures of microorganisms. It comes with a universal platform (clamps sold separately). A spring net shaking platforms is also available. One touch operation to change from reciprocal/orbital shaking. Shaking speed of BR-330 is up to 250 r/min, while BR-330W is up to 160 r/min.

Shaking width is continuously variable within the range of 10 to 50 mm.

- ✓ Contributes to energy conservation.

BR-330 series are equipped with our "Eco-Drive" function, which automatically controls and optimizes refrigerator and heater output depending on the usage ambient temperature and the set temperature. Compared to our previous model (BR-300LF), power consumption is about 1/7th (at 37°C), which results in substantial energy conservation.



- ✓ Large observation window. Redesigned control panel, digital settings and digital displays.

New BR-330 series have taken over the reliability of the previous models while improving user-friendly functions.

External dimensions, internal capacity, and available vessels are the same as those of the conventional BR-300LF series. However, the "observation window" is enlarged to facilitate viewing of the inside of the chamber. In addition, the new "LED chamber light" is repositioned to makes it easier to observe inside the chambers.

Further, the control panel was redesigned. Shaking speed set by dial in previous models is now set and displayed digitally by up/down buttons for both temperature and speed.



Conventional BR-300LF Series



BR-330 series



Window is big!! →

Set temperature	Cooling function	Power consumption
+37°C	ON	About 700/780Wh
+37°C	OFF (only heating with heater)	About 90/110Wh
+70°C	OFF (only heating with heater)	About 350Wh

Reference data: approximately 25°C and 50/60Hz in BR-330

- ✓ Program function added.

BR-330 series are equipped a program function.

You can program up to 9 steps of 'temperature, shaking speed, and time' settings. Each step consists of temperature/shaking speed/time. For example, you can culture at 37°C at setting time and then move to 4°C to keep storing a sample.

BR-330 Series-Developers Interview

I was entrusted with the heavy responsibility of creating a new chapter in BR-300LF, which has been a favorite of ours for almost 30 years. With the reliability built up by our seniors as it is, we began to take on the challenge of energy-saving performance demanded of the times.

Against that backdrop, we revised the control of the refrigerators and heaters and achieved various redesigns, for example, by reducing power consumption to 1/6th–1/7th of the previous models when using the respective products at 37°C in an environment where the temperature outside is largely different from that inside the chamber. In addition, we enlarged the observing window and improved the position of LED light so you can check inside the chamber with bright and easy-to-see. We took a step towards the future by adopting an easy-to-use, multi-functional digital control panel.

We wish this new model is loved by everyone to become a legendary model.

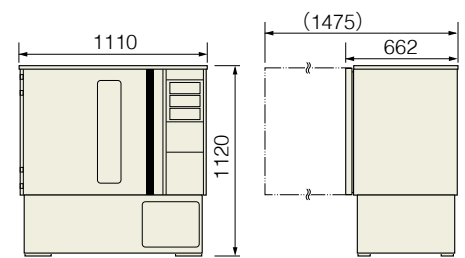


•Specifications

Model name	BR-330 (One-tier shaking)	BR-330W (two-tier shaking)
Usage temp. range Temp. adjustment accuracy (*1)	+4°C to +70°C , ±0.3°C to 1.0°C	
Operating environment temp. range (*1)	+5°C to +30°C	
Shaking method/Shaking speed	Reciprocal/orbital Switchable, 25 to 250r/min	Reciprocal/orbital Switchable, 25 to 160r/min
Shaking width	10 to 50mm (stepless adjustment)	
Door style	Front door (Open from right)	
Allowable load mass	Approx. 10kg (not including shaking platform)	Approx. 10kg for each platform (not including shaking platform)
Platform size and example capacity of vessels	600× 400mm (max. inside height: 575 mm) For Erlenmeyer flasks: 15 for 500mL, 3 for 5L	600× 400mm (Each platform can hold up to a 1L Erlenmeyer flask or a 500mL Sakaguchi flask) For Erlenmeyer flasks: 30 for 500mL and 18 for 1L
Temp. / speed display	Digital setting, digital display	
Heating/cooling system	Heater (700W), Refrigerator (125W)	
Program function	4 programs can be stored, one program, nine steps, and temperature/shaking speed/time can be set for each step (time setting range: 00h00min ~ 99h59min), with wait function (*4)	
Safety device / Safety function	Earth leakage/overcurrent breaker, High-temperature safety device, Refrigerator high-temperature cut circuit, Motor current limiter, Motor overload protection, Overvoltage protection, Fuse (built-in type), Filter check function, Shaking stop function at abnormal vibration detection, Temperature sensor error, Non-volatile memory error, Sample protection high-low-temperature protection (optional setting), Door open/close check function, Shaking stop function during motor runaway (abnormal pulse detection)	
Other functions	Eco-driving function, Automatic lighting inside the chamber, Communication hole in the chamber (2 holes)	
Dimensions/Weight/Power supply	1110 (*2) × 662× 1120Hmm, approx. 216kg (330W is approx. 226kg), AC100V · 11A	
Standard accessories	Universal shaking platform MT-6040E × 1 (330W is × 2) (*3), Vibration absorbing pad x4, Spacer plate x4, Drain receiving plastic bottle (with hose) × 1	



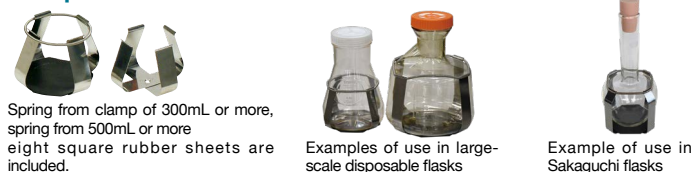
•Dimensions



(*1) Temperature change immediately after the defrosting function is activated is not included. Also, the specifications may not be satisfied outside the operating environment temperature range. (*2) 1260mm is approx. when a cart for carrying in (not an accessory) is installed. At the time of installation, a 200mm working space is required on each side. (*3) An optional clamp is required. (*4) The wait function is a function that can start shaking after the inside of the chamber reaches the set temperature. This product does not have the temperature gradient (tilt) function.
 •Continuous operation at low temperatures may cause frost to form in the oven, making it impossible to satisfy the above operating temperature range and temperature adjustment accuracy. Perform defrosting periodically. •Since this product is large and heavy, the cost for transportation and installation is separately requested.

•Option

Clamp Attach to the Universal shaking platform to fix the vessel.



Spring from clamp of 300mL or more, spring from 500mL or more eight square rubber sheets are included.

Examples of use in large-scale disposable flasks

Example of use in Sakaguchi flasks

Angle Rack for Test Tube / Disposable Centrifuge Tube

Used by attaching to the Universal shaking platform



Model name	Capacity	Mounting Qty on MT-6040E	External Dimensions (mm)	Mass
AT-1250	φ12mm× 50 pcs.	4	250×100×95H	Approx. 0.8kg
AT-1620	φ16.5mm× 20 pcs.	6	285×70×80H	Approx. 0.6kg
AT-1650	φ16.5mm× 50 pcs.	4	286×110×100H	Approx. 0.9kg
AT-1820	φ18mm× 20 pcs.	5	320×70×80H	Approx. 0.7kg
AT-3518	50mL disposable Centrifuge tube × 18 pcs.	4	285×110×102H	Approx. 0.8kg

(*1) The number of mounting angle racks is the number of test tubes in the length 160mm or disposable 50mL centrifuge tubes with the angle rack tilted by 45°. Use the AT-3518 at temperatures below +50°C.

Strong sticky sheet Adhesive sheet can fix any vessels with a flat bottom by simply placing it on the sticky sheet.

Model name	Description
ST-4030S	390×300mm, operating temp. range 4 to 40°C, up to 200r/min.

(*1) This product is a simplified holding sheet. Above speed is for reference.

LED irradiation unit



Model name	LC-450EXP
LED light source color	White
Peak wavelength	450nm
Dimensions of LED light source	340×240mm

(*1) An optional controller unit is required. One unit for LC-LED-CON1, 1 to 4units for LC-LED-CON4 are required. In addition, a fixing bracket to the Universal shaking platform is required for mounting on BR-330 Series. Check our Web for more information.

•Related Products: Large Incubator shaker BR-3300 Series

It has TAITEC's largest capacity. Models with One-tier and Two-tier shaking and their top boards are also available. The "Eco-drive" function saves power consumption (Wh) about 1/6 of conventional models!!

Incubator Shaker BR-3300 series



- 32 pcs of 500mL Erlenmeyer flasks and 64 pcs for two-tier.
- 6 models are available in a combination of One-tier/Two-tier shaking and optional functions (Top boards are usable same as a laboratory bench, some equipped safety door lock).
- Programmed operation of temperature/speed/time, storing at +4°C after culture, etc.



•All product photos vessels are not included.