Bioshaker GBR-200/GBR-300

Enables to use widely for Cultivation of microbes such as Yeast, E.Coli. etc. that require temp. control. High-end model that features for stackable, wide range of temp. range and speed. Cut power consumption by 75% with the conventional one!

Dimensions --> P.038 OD-Monitor Turbidimeter while shaking --> P.034 LED Light irradiation unit --> P.037
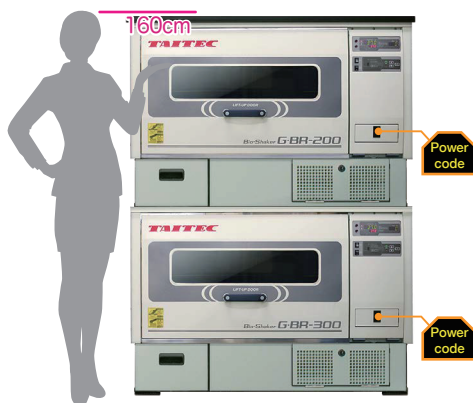

Stackable up to Two levels

Features

- •Max. speed 200r/min (GBR-200) and 300r/min (GBR-300)
- •Capacity : Erlenmeyer flask 500mL x 24 pcs, 5L x 4 pcs
- •For as a laboratory bench. Stackable up to Two stage.

Applications

- •Cultivation of microbes such as E.Coli. etc.
- •Cultivation of Yeast, Psychrophile and Insect cell
- •Cultivation of Thermophile and Hybridization (FH).

160cm

Power code

Power code

Swing lift-up door and Stackable up to Two levels.

Swing lift-up door and Stackable up to Two levels contribute space-saving while keeping large capacity. It can be shaked up to 300r/min (200r/min at the upper of stacked units) that is optimum for shaking culture.

The top board can be practically used for Lab bench.

Adopted the same material of Lab bench top board. The top board height is almost the same that of Lab bench.

Contributes save energy.

When set above 10°C, the compressor not run, while the heater runs for temp. control that is energy saving. It cuts power consumption by 75% with the conventional one!

Model	GBR-200	GBR-300
Shaking motion	Switchable Reciprocal/Orbital shaking	
Temperature range	4°C to 80°C	
Temp. control accuracy (*1)	±0.3°C to ±1.0°C	
Speed range (*2)	25 to 200r/min	25 to 300r/min (200r/min at the upper of stacked units)
Shaking width	Switchable 25/50mm (Default: 25mm)	
Platform size/Capacity	700 x 500mm (Max. inside height: 385mm), Erlenmeyer flask 500mLx24, 5Lx4	
Door type	Swing lift-up door	
Maximum load	approx. 10kg (Platform not included)	
Ambient temp. range (*1)	5°C to 30°C	
Heateing/Cooling method	Heater 700W/Compressor 125W	
Other functions	1 pattern, 9 segments (4 combinations can be saved): Temp., Shaking speed and Time/per segment (Setting range: 00h00min to 99h59min), Wait function (*3)	
Safety devices/functions	Leakage/Overcurrent breaker, Compressor overheating cut-off circuit, Alarm of abnormal sample temp. (Set as desired), Overload/Overvoltage protection, Fuse, Current limiter, Detecting the door opening and closing, Self-diagnosis function for temperature sensor error, Nonvolatile memory error, Breaking device when motor runaway, Self-check/lamp of filter	
Dimensions (W x D x H)/Weight	1200 x 800 x 810mm (Including Top board: 1200 x 750 x 25mm), Approx.235kg	
Power supply	AC100V/12A	
Standard accessories	1 x Universal shaking platform MT-7050 (*4), 2 x 2 types Spacer, 2 x Fixing bracket for stackable (*4)	

(*1)The temp. of defrost function just run is not included.
(*2)There is the limitation depending the volume of vessels and the shaking width. See the figure "Note" on the right page.
(*3)Shaking will start when reaching the preset temp. (*4)It comes with by the request at order.
(*4)Clamps not included.
•Temp. range and Temp. stability may not be meet the specs when frost by continuous operation. Required to defrost it regularly.

We contribute to the development of research and industry.

Optional accessories and Capacity/Qty of Vessels

Shaking platform and Capacity/Qty of Flasks

Model	MT-7050			
	It is used together Clamps, Angle racks and "OD-Monitor" series (Clamps of Erlenmeyer flask and Sakaguchi flask are available). It can hold flasks tightly than Spring shaking platform.			
External dimension／Weight	700x500x22Hmm, Apporx.6kg			
Capacity of Flask	Erlenmeyer flask 50mL	96	Erlenmeyer flask 2L	8
	Erlenmeyer flask 100mL	48	Erlenmeyer flask 3L	6
	Erlenmeyer flask 200mL	35	Erlenmeyer flask 5L／Disposable3&5L	4／5
	Erlenmeyer flask 250mL	28	Sakaguchi flask 500mL	18
	Erlenmeyer flask 300mL	28	Sakaguchi flask 1L	12
	Erlenmeyer flask 500mL	24	Sakaguchi flask 2L	6
	Erlenmeyer flask 1L	13	Sakaguchi flask 3L	5

Spring net shaking platform and Capacity/Qty of Vessels
(Mounted on MT-7050 for use)

Model	MR-4030L	
	The usable Shaking platform that Vessels can be easily mounted on regardless its shapes. Fixed with the screws to Platform MT-7050 for using. Up to Two sets can be mounted. (See Left figure.)	
Spring net Pitch	20mm	
Spring net stage	2 stage (Height is changeable.)	
External dimensions／Weight	400x300x108Hmm, Apporx.2kg	
Capacity of Vessels (*2)	φ16 mm test tubes (*1)	96pcs (When Two sets mounted: 2 x 96 = 192pcs).
	Disposable Centrifuge tube for 50 mL (*1)	48pcs (When Two sets mounted: 2 x 48 = 96pcs).
	Erlenmeyer flask 50mL	24pcs (When Two sets mounted: 2 x 24 = 48pcs).
	Erlenmeyer flask 100mL	20pcs (When Two sets mounted: 2 x 20 = 40pcs).
	Erlenmeyer flask 200mL	12pcs (When Two sets mounted: 2 x 12 = 24pcs).
	Erlenmeyer flask 250mL	9pcs (When Two sets mounted: 2 x 9 = 18pcs).
	Erlenmeyer flask 300mL	9pcs (When Two sets mounted: 2 x 9 = 18pcs).
	Erlenmeyer flask 500mL	6pcs (When Two sets mounted: 2 x 6 = 12pcs).
	Erlenmeyer flask 1L	3pcs (When Two sets mounted: 2 x 3 = 6pcs).
	Erlenmeyer flask 2L	2pcs (When Two sets mounted: 2 x 2 = 4pcs).
	Erlenmeyer flask 3L	1pcs (When Two sets mounted: 2 x 1 = 2pcs).
	Sakaguchi flask 500mL	6pcs (When Two sets mounted: 2 x 6 = 12pcs).

(*1)The qty when Angle rack tilted 45 °.φ16mm or less test tube should fixed with the stand per net.
(*2)The Capacity/Qty of vessels are less than those of Universal platform.

Junction pipe

Model	JCP-3687
Description	The pipe (w/o Lid) for connection to the outside. It is for installing such as the sensor of recorder inside the chamber. Electrical equipment should not be placed inside the chamber.
Remarks	Be sure be used below 50°C.

Clamps (Mounted on MT-7050 and AF-2070/2570 for use.)

Above 300mL Clamps comes with Spring and Above 500 mL comes with Octagonal rubber sheet.

MT-7050 with multiple clamps mounted.

Vessels / Capacity		Model
Erlenmeyer flask	50mL	CF-0050
	100mL	CF-0100
	200mL	CF-0200
	250mL	CF-0250
	300mL	CF-0300
	500mL	CF-0500
	1L	CF-1000
	2L	CF-2000
	3L	CF-3000
	5L	CF-5000
	3&5L (*)	CF-3000DSP
Sakaguchi flask	500mL	SF-0500
	1L	SF-1000
	2L	SF-2000
	3L	SF-3000

(*)For Disposable Erlenmeyer flasks (Corning 3L and Thomson 5L).

Angle rack for Test tubes (Mounted on MT-7050 for use)

Model	AT-1250	AT-1620	AT-1650	AT-1820
Capacity	φ12mm x50	φ16.5mm x20	φ16.5mm x50	φ18mm x20
Mounting qty on MT-7050	4 (*)	6 (*)	4 (*)	6 (*)
External dimension (mm)	250x100x95H	285x70x80H	286x110x100H	320x70x80H
Weight	Apporx.0.8kg	Apporx.0.6kg	Apporx.0.9kg	Apporx.0.7kg

AT-1250

(*)The qty when Angle rack with 160mm test tube tilted 45 °.

Angle rack for Disposable Centrifuge tubes
(Mounted on MT-7050 for use)

Model	AT-3518
Capacity	50mL×18
Num. of mounting to MT-7050	4(When Angle rack tilted 45 °)
External dimension／Weight	285×110×102Hmm, Apporx.0.8kg
Remarks	Be sure be used below 50°C.

Angle rack for Erlenmeyer flasks
(Mounted on MT-7050 for use)

Model	AF-2070	AF-2570
Capacity	50mL：4, 100mL：3, 200 to 300mL：2, 500mL：1	50mL：5, 100mL：4, 200mL：3, 250 to 500mL：2
Mounting qty on MT-7050	4 (*1)	4 (*1)
External dimension	250x110x50Hmm	300x110x50Hmm
Weight	Apporx.0.8kg	Apporx.0.9kg

AF-2070

(*1)The qty when Angle rack tilted 30 °.•Clamps are available as an option.

【Note】 limitation of Shaking speed by Shaking width and Vessel sizes.

Shaking width	25mm				50mm			
Shaking motion	Reciprocal		Orbital		Reciprocal		Orbital	
r/min	200	300	200	300	200	300	200	300
～500mL	○	○	○	○	○	○	○	○
1L	○	○	○	○	○	○	○	○
2L	○	○	○	○	○	x	○	○
3L	○	○	○	○	○	x	○	x
5L	○	○	○	○	170r/min	x	170r/min	x

● Protuberances not included in Dimensions. ● Vessels of photo not included.

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