

# Bioshaker BR-3000LF Single platform /BR-3000LF Double platform

*Enables to use widely for Cultivation of microbes such as Yeast, E.Coli. etc. that require temp. control. Double platform realizes Double capacity.*

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



BR-3000LF Double platform

## Features

- Single platform and Double platform
- Capacity : Erlenmeyer flask 500mL x 32 pcs (Single), 64 pcs (Double)
- Shaking width adjustable in stepless between 10mm and 50mm.

## Applications

- Cultivation of microbes such as E.Coli. etc.
- Cultivation of Yeast, Psychrophile and Insect cell
- The other samples that require shaking and temp. control.

### The magnificent max. capacity model with the double platform

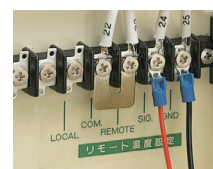
This is the magnificent max. capacity model with the double platform among TAITEC incubator shakers by the repeated improvements such as Shaking platform drawer lever. Up to 1 L flask can be placed on Double platform that vessel qty doubled as Single platform. Note: The upper platform should be removed when above 2L Erlenmeyer flask and 1L Shake flask are placed. (Ask us for details). Since Switchable shaking motion and Shaking width can be adjusted in stepless the optimum efficiency of cultivation can be obtained depending a vessel.



Shaking platform drawer lever

### Equipped with the remote terminal for the temp. control.

Connecting with Program unit PU-5 (see the right page) enables the remote control setting and the program operation.



[Lower left back]


Model	BR-3000 Single platform	BR-3000 Double platform
Temperature range	4°C to 70°C	
Temp. control accuracy (*1)	±0.3°C to ±1.0°C	
Shaking motion	Switchable Reciprocal/Orbital shaking	
Speed range	25 to 250r/min	25 to 160r/min
Shaking width	10 to 50mm (stepless)	
Platform size/Capacity	800 x 600mm (Max. inside height: 605mm), Erlenmeyer flask 500mLx32, 5Lx6	800 x 600mm (Limitation flask volume per platform: 1L Erlenmeyer flask or 500mL Sakaguchi flask) Erlenmeyer flask 500mLx64, 1Lx36
Door	Double swing door	
Maximum load	Approx. 17kg (Platform not included)	Approx. 17kg/per platform (Platform not included)
Ambient temp. range (*1)	5°C to 35°C	
Display (Temp./Speed)	Digital display (Switchable Set temp./Chamber temp.)	
Heating/Cooling method	Heater 800W/Compressor 125W	
Other functions	Shaking duration integrator (0.1h to 999.9h, Automatic resetting function *Required Program unit PU-5 or 6/Option to use), Chamber lamp	
Safety devices/functions	Leakage/Overcurrent breaker, Compressor overheating cut-off circuit, Alarm of abnormal sample temp. (Set as desired), Display of deviation from set value (upper / lower limit), Self-diagnosis function for sensor error	
External Dimensions (W x D x H)	1325 x 862 x 1234mm	
Weight	Approx. 310kg	Approx. 330kg
Power supply	AC220 to 240V / 12A	
Standard accessories	1 x Universal shaking platform MT-8060A (Single type *Double type comes with 2 pcs of platform) (*2), 4 x Vibration absorbing pad, 4 x Spacer, 1 x Drain-reception plastic bottle (With hose)	

(\*1)The temp. of defrost function just run is not included. (\*2)Clamps not included.

•Temp. range and Temp. stability may not be meet the specs when frost by continuous operation. Required to defrost it regularly.


# Optional accessories and Capacity/Qty of Vessels

## Shaking platform and Capacity/Qty of Flasks

Model	MT-8060A			
	It is used together Optional Clamps, Angle racks and "OD-Monitor" series. 2 sets used with Double shaking platform type (included in BR-3000LF).			
External dimension / Weight	800x600x45Hmm, Apporx.9kg			
Capacity of Flask	Erlenmeyer flask 50mL	98	Erlenmeyer flask 2L	12
	Erlenmeyer flask 100mL	72	Erlenmeyer flask 3L	9
	Erlenmeyer flask 200mL	63	Erlenmeyer flask 5L / Disposable3&5L	6/7
	Erlenmeyer flask 250mL	46	Sakaguchi flask 500mL	27
	Erlenmeyer flask 300mL	46	Sakaguchi flask 1L	18
	Erlenmeyer flask 500mL	32	Sakaguchi flask 2L	12
	Erlenmeyer flask 1L	18	Sakaguchi flask 3L	9
<b>Capacity/Qty in Double shaking platform type.</b>				
Capacity of Flasks (Two stages in total)	Erlenmeyer flask 50mL	196	Erlenmeyer flask 2L (*)	12
	Erlenmeyer flask 100mL	144	Erlenmeyer flask 3L (*)	9
	Erlenmeyer flask 200mL	126	Erlenmeyer flask 5L / Disposable3&5L (*)	6/7
	Erlenmeyer flask 250mL	92	Sakaguchi flask 500mL	54
	Erlenmeyer flask 300mL	92	Sakaguchi flask 1L (*)	18
	Erlenmeyer flask 500mL	64	Sakaguchi flask 2L (*)	12
	Erlenmeyer flask 1L	36	Sakaguchi flask 3L (*)	9

(\*) It can be used on the lower platform when that of upper removed.

## Spring net shaking platform and Capacity/Qty of Vessels (Mounted on MT-8060A 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-8060A for using. Up to Four sets can be mounted. (See Left figure.) 8 sets in total can be mounted on Double platforms.			
Spring net Pitch	20mm			
Spring net stage	2 stage (Height is changeable.)			
External dimension / Weight	400x300x108Hmm, Apporx.2kg			
Capacity of Vessels (*)	φ16 mm test tubes (*)	96pcs (When Four sets mounted: 4 x 96 = 384pcs) x 2 stages		
	Disposable Centrifuge tube for 50 mL (*)	48pcs (When Four sets mounted: 4 x 48 = 192pcs) x 2 stage		
	50mL	24pcs (When Four sets mounted: 4 x 24 = 96pcs) x 2 stage		
	100mL	20pcs (When Four sets mounted: 4 x 20 = 80pcs) x 2 stage		
	200mL	12pcs (When Four sets mounted: 4 x 12 = 48pcs) x 2 stage		
	250mL	9pcs (When Four sets mounted: 4 x 9 = 36pcs) x 2 stage		
	300mL	9pcs (When Four sets mounted: 4 x 9 = 36pcs) x 2 stage		
	500mL	6pcs (When Four sets mounted: 4 x 6 = 24pcs) x 2 stage		
	1L	3pcs (When Four sets mounted: 4 x 3 = 12pcs) x 2 stage		
	2L (*)	2pcs (When Four sets mounted: 4 x 2 = 8pcs)		
	3L (*)	1pcs (When Four sets mounted: 4 x 1 = 4pcs)		
	Sakaguchi flask 500mL	6pcs (When Four sets mounted: 4 x 6 = 24pcs) x 2 stage		

(\*)1The qty when Angle rack tilted. 45° φ16mm or less test tube should fixed with the stand per net.

(\*)2The Capacity/Qty of vessels are less than those of Universal platform.

(\*)3It can be used on the lower platform when that of upper removed.



## LED irradiation unit (Mounted to MR-4030 for use)

Model	LC-LED450W	
LED Color	White	
Peak wavelength	450nm	
Dimensions of Light source	340x240mm	

• See details on 47 page.

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

## Clamps (Mounted on MT-8060A and AF-2070/2570 for use)

	Vessels / Capacity	Model
 Above 300mL Clamps comes with Spring and Above 500 mL comes with Octagonal rubber sheet.	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
 MT-8060A with multiple clamps mounted.	3&5L (*)	CF-3000DSP
	500mL	SF-0500
	1L (*)	SF-1000
	2L (*)	SF-2000
	3L (*)	SF-3000

(\*)1It cannot be used in the upper platform and can be used on the lower platform when that of upper removed.

(\*)2For Disposable Erlenmeyer flasks (Corning 3L and Thomson 5L).

## Angle rack for Test tubes (Mounted on MT-8060A 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-8060A	10 (*)	16 (*)	8 (*)	6 (*)
External dimension (mm)	250x100x95H	285x70x80H	286x110x100H	320x70x80H
Weight	Apporx.0.8kg	Apporx.0.6kg	Apporx.0.9kg	Apporx.0.7kg

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

## Angle rack for Disposable Centrifuge tubes (Mounted on MT-8060A for use)

Model	AT-3518
Capacity	50mLx18
Num. of mounting to MT-8060A	8(When Angle rack tilted 45°)
External dimension / Weight	285x110x102Hmm, Apporx.0.8kg
Remarks	Be sure be used below 50°C.

## Angle rack for Erlenmeyer flask (Mounted on MT-8060A 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-8060A	10 (*)	5 (*)
External dimension	250x110x50Hmm	300x110x50Hmm
Weight	Apporx.0.8kg	Apporx.0.9kg

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

## Program units

Connecting to the remote temperature setting terminal of BR-300LF series enables remote setting and program setting of temperature (The modification of BR is required for the shaking control).

Model	PU-5	PU-6
Description	Remote program control of Temperature.	Remote program control of Temperature and Shaking ON/OFF.
Main Spec.	Storage programs: 2 program (8 segments per program)	Storage programs: 2 program (8 segments per program) Time signal (ON/OFF): Each 2 programs



PU-5

Selection guide

Constant temperature incubator shaker  
OD-Monitor

CO<sub>2</sub> incubator shaker

Shaker

Mixer  
Rotator  
Stirrer

Bead beater  
homogenizer  
Ultrasonic homogenizer

Aluminum block bath  
Minimize bath

Water bath  
Shaking water bath  
Immersion cooler

Hybridization oven  
Constant temperature chamber

Centrifugal concentrator  
Cold trap

Freeze dryer

Electrophoresis and blotting apparatus

Constant temperature circulating system [Chiller]

Appendix