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CO₂ incubator CO₂ incubator shaker

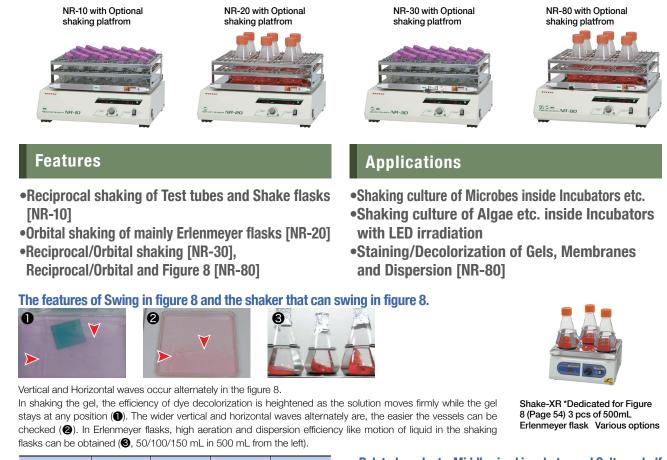
Snaker

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Reciprocal shaker NR-10, Rotary shaker NR-20, Double shaker NR-30, Triple shaker NR-80

The versatile shaker with simple operation. Reciprocal, Orbital, Switchable Reciproca/Orbitall shaking and Swing in figure 8. Options are compatible with those of BioshakerR (Middle size).

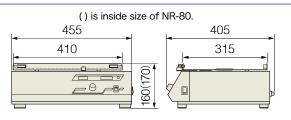
"Bioshaker BR-40/41/42/43 with temp. control" series --> P.022 " In vitro Shake-LR/XR" equipped with Swing in figure 8 --> P.054



Model	NR-10	NR-20	NR-30	NR-80	
Shaking motion	Reciprocal	Orbital	Switchable Reciprocal/ Orbital	Reciprocal/ Orbital/ Figue 8	
Shaking speed	20 to 200r/mi	n (*)			
Shaking width	10 to 40mm,	Stepless (Defa	ault: 25mm)		
Platform dimensions and Capacity	400 x 300mm Erlenmeyer flask 500mL x 6, 3L x 2				
Maximum load	Approx. 8kg (Sha	Approx. 8kg (Shaking platform and vessel holders included)			
Shaking duration integrator	0.1h to 999.9h (Automatic resetting function)				
Safety devices/ functions	Motor protection circuit at overload, Fuse				
Dimensions (W x D x H)	455 x 405 x 160mm (NR-80: 170mm)				
Weight	Approx. 17kg Approx. 18kg				
Power supply	AC220 to 240V/0.5A				

(*) One motion per 2r/min in the figure 8.

Dimensions (Each model common)



Related products: Middle sized incubator and Culture shelf



Can be used by placing it on the lowest shelf in "In vitro box iB-230" (page 138). *No adverse effect verified from vibration. This is an energy-saving middle sized incubator that can control temp below RT.

UR-3 is a shelf that can be shaken with up to 6 sets of NR-10/20/30/80. An empty space above can be effectively used. LED Irradiation unit available as an option.





Model	UR-3
Shelves / Maximum load	Three tire, 50kg per shelf
Dimension / weight	1350×660×1800Hmm, 115kg

Optional accessories and Capacity of Vessels

OD-Monitor Turbidimeter while shaking --> P.034 Small size incubator "in vitro box iB-130"-->P.138

Spring net shaking platform and Capacity of Vessels.

Model	MR-4030
	Vessels can be easily mounted on regardless its shapes. It can be used by removing some springs and changing the height of the spring net as necessary. Universal shaking platform (w/o Clamp *It is option) recommended if vessel should be tightly held.
Spring net Pitch	20mm
Spring net Pitch	2 tier (Height is changeable.)
Dimension	400×300×108Hmm

Weight		Apporx.3.3kg			
Cap	φ16 mm test tubes (*1)	96 (*2)	Erlenmeyer flasks 250mL	9	
Capacity o	Disposable Centrifuge tube for 50 mL	48 (*2)	Erlenmeyer flasks 300mL	9	
of Vessels	Erlenmeyer flasks 50mL	24	Erlenmeyer flasks 500mL	6	
ssels	Erlenmeyer flasks 100mL	20	Erlenmeyer flasks 1L	3	
	Erlenmeyer flasks 200mL	12	Erlenmeyer flasks 2L	2	

(*1)When below ϕ 16mm test tubes, fix the test tube stand (incl. ϕ 16mm) whole with the spring net. (*2)The number is when Angle rack tilted 45 ·Be careful when using Shake flask as it is fragile.

Universal shaking platform and Capacity of Flasks

MT-4030



It is used together Clamps, Angle racks and "OD-Monitor" series (Clamps of Erlenmeyer flasks and Shake flask are available). It can hold flasks tightly than Spring shaking platform.

Dimension		400×300×23Hmm				
Weig	ight Apporx.1.4kg					
Ca	Erlenmeyer flasks 50mL	35	Erlenmeyer flasks 500mL	6		
paci	Erlenmeyer flasks 100mL	18	Erlenmeyer flasks 1L	4		
ty of	Erlenmeyer flasks 200mL	12	Erlenmeyer flasks 2L	2		
Capacity of Vessels	Erlenmeyer flasks 250mL	9	Erlenmeyer flasks 3L	2		
sels	Erlenmeyer flasks 300mL	9	Sakaguchi flasks 500mL	6		

Angle rack for Test tube (Mounted on MT-4030 for use)

<i>(11)</i>	Model	AT-1250	AT-1620	AT-1650	AT-1820
	Capacity	ф12mm ×50	ф16.5mm ×20	ф16.5mm ×50	ф18mm ×20
MT-4030 with Angle racks mounted.	Qty of mounting on MT-4030	2 (*)	3 (*)	2 (*)	3 (*)
	Dimension (mm)	250×100×95H	285×70×80H	286×110×100H	320×70×80H
	Weight	Apporx.0.8kg	Apporx.0.6kg	Apporx.0.9kg	Apporx.0.7kg

(*)The number is when Angle rack with 160mm test tube tilted 45 $^\circ\!.$

Angle rack for Disposable Centrifuge tube (Mounted on MT-4030 for use)

	Model	AT-3518
?	Capacity	50mL×18
	Qty of mounting on MT-4030	2 (When Angle rack tilted 45 °)
	Dimension/ Weight	285×110×102Hmm,Apporx.0.8kg
	Remarks	Be sure use below 50°C.

Stick sheet shaking platform

Model

SR-4030 Flat bottoms such as Erlenmeyer flasks and Petri dishes can be held simply by placing them on the platform. The decreasing an adhesive force by dirt can be recovered by washing with water and drying it. Even Erlenmeyer flasks can be used up to 200r/min by using Optional Clamp belt.

Max. shaking speed	100r/min (200r/min when using Clamp belt)
Dimension/Weight	400×300×30Hmm, Apporx.1.7kg
Standard accessories	Stick sheet×1

Stick sheet, Clamp belts

Stick sheet (ST-4030) above also available as sold separately. Clamp belt (CB-0205/1000) is for securely holding Erlenmeyer flasks on Stick sheet shaking platform.

Model	ST-4030	Model	CB-0205	CB-1000
Dimension	400×300mm	Volume of flasks	200 to 500mL	1 to 3L (*)

(*)Up to 2L of Erlenmeyer flasks can be used with the NR-10/20/30/80 series

Clamps (Mounted on MT-4030 and AF-2070/2570 for use.)

Shape	Vessels / Ca	pacity	Model
BA		50mL	CF-0050
		100mL	CF-0100
Above 300mL Clamps		200mL	CF-0200
comes with Spring and Above 500 mL comes with	Erlenmeyer flasks	250mL	CF-0250
Octagonal rubber sheet		300mL	CF-0300
		500mL	CF-0500
		1L	CF-1000
		2L	CF-2000
MT-4030 with prural clamps		ЗL	CF-3000
mounted.	Sakaguchi flasks	500mL	SF-0500

Angle rack for Erlenmeyer flask (Mounted on MT-4030 *Clamps required)

1 1	Model	AF-2070	AF-2570
	Capacity	50mL:4,100mL:3pcs, 200 to 300mL:2pcs, 500mL:1pc	50mL:5pcs ,100mL:4pcs, 200mL:3pcs , 250 to 500mL:2pcs
MT-4030 with Angle racks mounted.	Qty of mounting on MT-4030	2 (*1)	2 (*1)
mounted.	Dimension	250×110×50Hmm	300×110×50Hmm
	Weight	Apporx.0.8kg	Apporx.0.9kg

(*1)When Angle rack tilted 30 $^{\circ}$

Tube hol Disposal x 6 racks

Tube holder (Mounted on MT-4030 for use)



Tube holder M-0015
For 1.5/2.0 mL Microtubes and Micro Vials, 3 sets x 8 racks

lder M-0150	Tube holder M-0500
ble Centrifuge tube for 15 mL 3 sets s (*)	Disposable Centrifuge tube for 50 mL 3 sets x 4 racks (*)

(*) Up to 3 sets can be mounted on MT-4030 in NR-10/20/30/80 series. The vessel tips will protrude from MT-4030 when 4pcs are attached. Thus, be sure not to make them hit the surroundings during shaking.