

Water Bath Shaker NTS-4000A • 4000B • 4000C

Highly durable and silent shaking mechanism.

Three types, 7 models available to cover small/large volume samples.

Three heater output available. 300W (L type), 700W (M type), 1300W (H type).

Simultaneous operation of 4 units (300W) or 2 units (700W) is possible by 15A outlet.



NTS-4000A

NTS-4000B

NTS-4000C

Features

- Temperature, shaking speed and shaking time are controlled by microprocessor. Microprocessor controls every setting and stops heating/shaking when sensor detects abnormal signal. Shaking time integration function is provided.
- With newly designed shaking mechanism, low noise level (less 55dB) is realized.
- Auto-start and auto-stop function is provided as standard. 4 step program function is also provided to realize auto-start with different setting after one sequence shaking.
- Anti bacteria stainless steel bath can be dismantled for cleaning. The unit is equipped with drain cock and water in the bath can easily be drained after shaking.
- Slow-up function prevents bath water overflowing.
- One touch mounting/dismounting of both shaking chamber and water bath.

Specifications

Product Name	Water Bath Shaker						
Model	NTS-4000AL	NTS-4000AM	NTS-4000BL	NTS-4000BM	NTS-4000BH	NTS-4000CM	NTS-4000CH
Cat. No.	211850/211858	211869/211868	211870/211878	211889/219888	211890	211900/211908	211910
Shaking method	Reciprocating shaking						
Temp. setting range	10 ~ 80°C						
Temp. control accuracy	±0.1 (at 37°C)						
Shaking speed & stroke	20 ~ 180rpm•25mm		20 ~ 160rpm•25mm			20 ~ 140rpm•40mm	
Temp. control range	RT+5°C ~ 60°C	RT+5°C ~ 80°C	RT+5°C ~ 40°C	RT+5°C ~ 60°C	RT+5°C ~ 80°C	RT+5°C ~ 40°C	RT+5°C ~ 70°C
Temp. control	Microprocessor P.I.D. control, Auto tuning function						
Temp. setting & display	Sheetkey input•digital setting & display, min. setting 0.1°C						
Program	Auto start, Auto stop, Step program						
Heater	300W (SUS316L)	700W (SUS316L)	300W (SUS316L)	700W (SUS316L)	1300W (SUS316L)	700W (SUS316L)	1300W (SUS316L)
Safety features	Self diagnosis (Heater brake, Sensor error, Limit temp. alarm, Motor malfunction), Empty heating protection, Independent over heating protection, Leak/over current breaker, Fuse						
Shaking chamber size (mm)	Shelf OD 150W x 220D		Shelf OD 230W x 280D			Shelf OD 380W x 388D	
	Shelf ID 130W x 199D		Shelf ID 210W x 259D			Shelf ID 360W x 350D	
Dimensions (mm) & weight	220W x 490D x 342H 18.5kg		330W x 540D x 342H 22.5kg			450W x 660D x 442H 36.5kg	
Power source	350VA AC100V 770VA AC220V	750VA AC115V 1.7kVA AC220V	350VA AC115V 770VA AC220V	750VA AC115V 1.5kVA AC220V	1.35kVA AC100V	800VA AC100V 1.7kVA AC220V	1.4kVA AC100V

Point!

One touch mounting/detaching of shaking chamber.

Stainless bath can also be detached by one touch for easy cleaning.



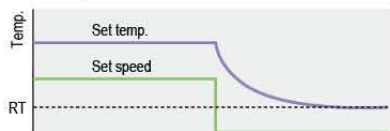
Drain cock is provided for easy draining of remaining water in bath after shaking.

Program operation

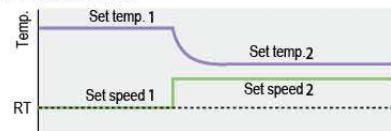
■ Auto start



■ Auto stop



■ Step program

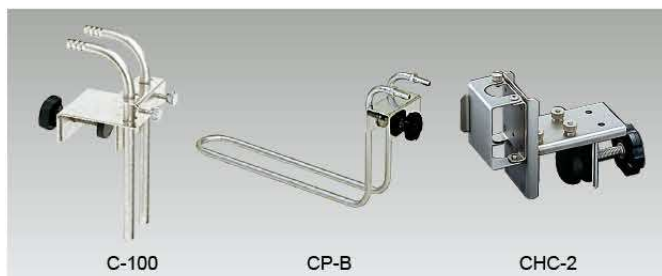


■ Mountable vessel according to shelf

Vessel	Shelf	Shelf (Standard)			Shelf (Option)			
		NTS-4000A	NTS-4000B	NTS-4000C	NTS-4000A	NTS-4000B	NTS-4000A	NTS-4000B
					Shelf for micro tube		Shelf for test tube	
				MTR-1.5A	MTR-1.5B	SSR-A	SSR-B	
Micro tube	1.5mL	—	—	—	54	120	—	—
Test tube	φ12	84	180	(289)	—	—	45	80
	φ16.5	39	90	289	—	—	23	40
Centrifugal tube	50mL	12	30	(72)	—	—	11	20
	50mL	8	20	(49)	—	—	—	—
Triangular flask	100mL	6	12	(25)	—	—	—	—
	200mL	3	8	(16)	—	—	—	—
	300mL	2	6	16	—	—	—	—
	500mL	1	4	9	—	—	—	—
	1L	0	1	4	—	—	—	—
	2L	0	0	2	—	—	—	—

※ () is possible by changing height of bottom plate.

Options



Circulation hose clamp, Cooling pipe, Cooler clamp

Product name	Model	Cat. No.	Applicable	Cooling circulator
Cooling hose clamp	C-100	113200	NTS-4000B	—
	C-300	113220	NTS-4000C	—
Cooling pipe	CP-B	211920	NTS-4000B	Nozzle dia. 10.5mm
	CP-C	211930	NTS-4000C	
Cooler clamp	CHC-2	181840	NTS-4000B NTS-4000C	ECS-0SS



Bath cover

Model	Cat. No.	Applicable
RBC-A	212020	NTS-4000A
RBC-B	212030	NTS-4000B
RBC-C	212040	NTS-4000C



Shelf for microtube

Application	Model	Cat. No.	Applicable
1.5mL 54 vessels	MTR-1.5A	211980	NTS-4000A
1.5mL 120 vessels	MTR-1.5B	212000	NTS-4000B
Shelf support (2 pcs)	SRS-A	211960	NTS-4000A
	SRS-B	212010	NTS-4000B



Sliding shelf for test tube

Application	Model	Cat. No.	Applicable
Shelf for 11-45 tubes	SSR-A	211940	NTS-4000A
Shelf for 20-80 tubes	SSR-B	211950	NTS-4000B
Shelf support (2 pcs)	SRS-A	211960	NTS-4000A
	SRS-B	212010	NTS-4000B

Rotary Evaporator 1

Vacuum Pump & Aspirator 2

Organic Synthesizer 3

Freeze Drier / Spray Drier 4

Shaker 5

Stirrer 6

Tube Pump 7

Low Temperature Circulator 8

Cold Trap 9

Orbital Temperature Bath 10

Incubator 11

Oven 12

Fermentor 13