

Personal-11 SDN/EXN/SM Set

Versatile Bench-top Water bath that is equipped with Reciprocal shaking. Unique Monode shaking platform for shaking L-shaped test tubes is available as an option.

•"Thermominder SDN/EXN-B" --> P.131 •"Thermominder SM-05N" --> P.132

※The lid cannot be used when Monod Kit is combined.



Personal-11 SDN Set

※The lid cannot be used when Monod Kit is combined.



Personal-11 EXN Set Combined with Monode Kit (Optional)



Personal-11 SM Set

Features

- Thermominder and Personal (Shaking water bath) come as a set
- Easy to remove the included shaking platform and inner tank
- Reciprocal shaking, Shaking width adjustment, Monode shaking (Optional)

Applications

- Small-scale Culture of Microbe such as E. coli
- Various incubations such as Enzyme reaction
- Hybridization

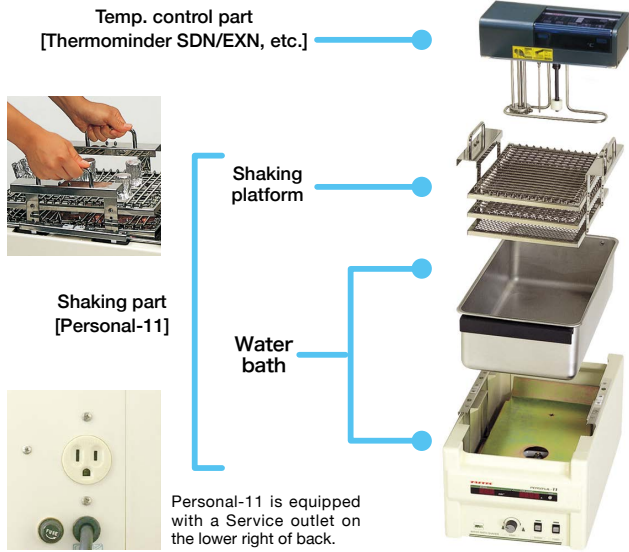
Model	Personal-11 SDN Set Thermominder SDN comes as a set	Personal-11 EXN Set Thermominder EXN comes as a set	Personal-11 SM Set Thermominder SM comes as a set (*1)	
Thermominder	Temperature range (*2)	5°C above RT to +70°C (Preset/Current temp. displayed simultaneously in the SDN/EXN switch. Switchable Preset/Current temp display in SM.)		
	Temp. control accuracy (*3)	±0.1°C to 0.3°C	±0.02°C to 0.08°C	±0.1°C
	Temperature memory	3		-
	Timer (*4)	-	Buzzer notification for Preset time, Operation OFF/Operation ON	Buzzer notification for Preset time, Operation OFF
	Other functions	Buzzer notification when preset temp. is reached, Automatic tuning	Buzzer notification when preset temp. is reached, Simple Program (3 Steps), Safety device output, Temp. input/output, Automatic tuning	Buzzer notification when preset temp. is reached, Automatic tuning
	Heater	800 W		500 W
	Safe devices/ protections	Circuit protector, Fuse, Dry-heating protection with float, Heater protection cover (SM-05N), Sensor error, Short circuit, High/Low temp. Sample protection, Water level alarm, Non-volatile memory error, Automatic tuning error, Alarm setting error, Switchable Automatic/Manual recovery when power failure		
	Power supply	AC 100 V/8.5 A		AC 100 V/5.5 A
Standard accessories	-		Microtube Floater × 1 pc, Plastic Water bath C-type × 1 pc (*5)	
Personal	Shaking method	Reciprocal shaking, Shaking speed: 20 to 160 r/min (displayed digitally), Shaking width: 10 to 40 mm (Stepless variable, Default 30 mm)		
	Platform dimensions	220 × 310 mm		
	Other functions	Elapsed time indicator (0.1 to 999.9 h, with Automatic reset) × 1, Service outlet for Thermominder ×1		
	Bath inside dim. (W×D×H)/volume	235 × 430 × 140 mm, Approx. 11 L (80% Water level) (*6)		
	Power supply	AC100V/0.5A /Max.9A with SDN (Need a step-down transformer)	AC100V/0.5A /Max.9A with EXN (Need a step-down transformer)	AC100V/0.5A /Max.6A with SM-05N (Need a step-down transformer)
Standard accessories	Spring net Shaking Platform × 1 pc, Clamp Spacer × 1 pc			
Dimensions (W×D×H)/weight	300 × 495 × 336 mm, Approx. 19 kg		300 × 527 × 420 mm, Approx. 19.4 kg	

(*1) Can be combined with SJ-07N and SX-10N. (*2) Max. temp. may not be reached when the optional Hood is not used or depending on the usage conditions. (*3) The value under the conditions of RT (25°C), AC 100 V/50 Hz, 80% Water level, Preset temp. 37°C, and No heat load. Only for EXN Measured value. (*4) Each setting range is 1 min to 99 h 59 min. (*5) This also serves as a packing box whereas it is not used together with the Personal-11 Set. (*6) The proper volume is 7 L to 9 L when shaking with the capacity (max. number) such as Centrifuge tubes and max. 500 mL of Erlenmeyer flasks at 120 to 160 r/min.

Optional accessories

- If you want a larger capacity (Num. of vessels) of Monode Shaking. --> P.140
- If you want Monode shaking in Air bath --> P.150 to 152

Product configuration ~Each part easily detachable~

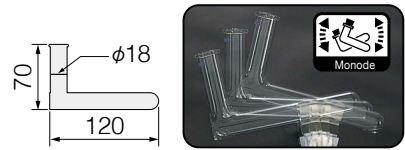


Capacity of Vessels Example

Spring net shaking platform (Spring pitch 15 mm)	φ11 mm Test tube (vertical)	187
	Centrifuge tube (30° tilted) 50 mL	12
	Erlenmeyer flask 100 mL	8
	Erlenmeyer flask 200 mL	6
	Erlenmeyer flask 250 mL	5
	Erlenmeyer flask 300 mL	5
Monode kit (Corresponds to SDN/EXN set)	Erlenmeyer flask 500 mL	3
	Optional L-shaped Test tube (See below)	12

L-shaped Test tube and Monod Shaking

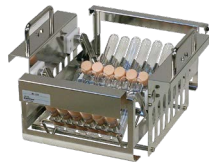
Monod shaking is the most effective shaking motion in culture using L-shaped Test tubes. We offer L-shaped Test tubes with the dimensions on the left and Shaking platform suitable for it.



Option for Personal-11 SDN/EXN Set



Heat-resistant Plastic Hood
PF-P Example for use



Monod kit MD-1218

Option for Personal-11 SM Set



Combination example of Stainless steel
Roof lid and Asbestos Timer unit

Related products: WTB-Shaker



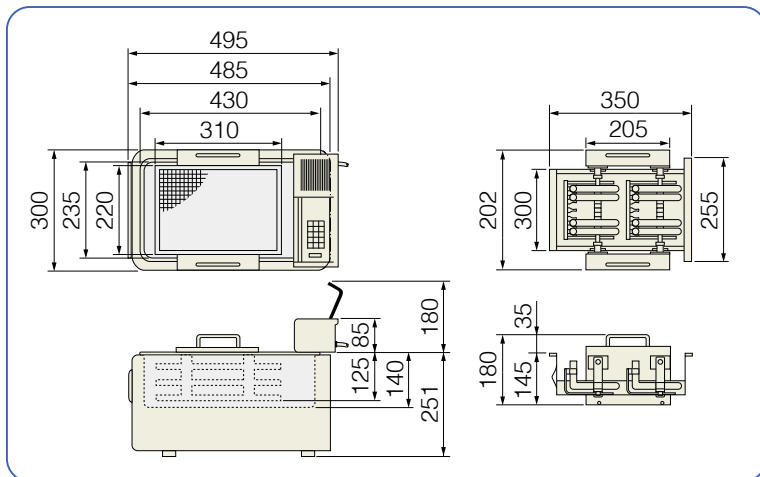
Further compact-size
"WTB-ShakerUnit" that is
CFC-free and can cool. --> P.123

Description/Model	Remarks
Heat-resistant Plastic Hood/ PF-P	Suppresses evaporation and Reduces power consumption. It cannot be used when Monod kit MD-1218 below installed.
Monode kit/ MD-1218 (*)	Used by replacing it with Monod Shaking platform for L-shaped Test tube × 12 pcs and Spring net Shaking platform of Personal-11.
L-shaped Test tube (incl. 10)	φ18 × 120 × 70 mm

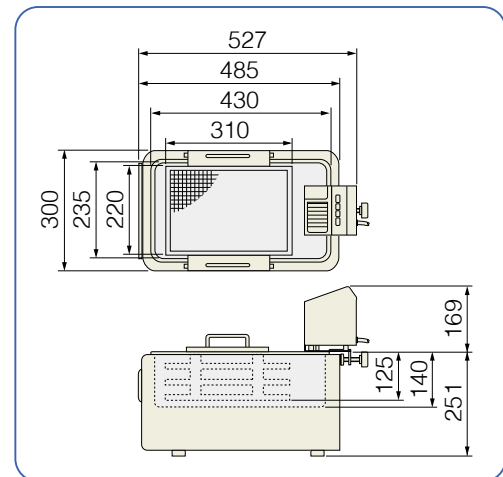
(*) Monode kit can also be ordered as a set as "Personal Monode SDN/EXN Set."

Description/Model	Remarks
Stainless steel-made Top lid	Suppresses evaporation and Reduces power consumption.
Automatic Water supply Unit Level Keeper/ UB-2	Supplies water when the water level in the bath drops below the preset.
Asbestos Timer unit B-type	For automatically turning the Shaking ON and OFF. For Preparation of samples for X-ray analysis of Asbestos.

Personal-11 SDN/EXN Set, MD-1218



Personal-11 SM set



NEW

Constant temperature incubator/shaker
OD Monitor

For cell culture related products

Shaker

Mixer
Rotator
Stirrer

Bead beater
homogenizer
Ultrasonic homogenizer

Aluminum block Bath
Mini-size Bath

Water bath
Shaking Water bath
Immersion cooler

Hybridization
Incubator
Constant temperature Chambers

Centrifugal concentrators
Cold Trap

Freeze dryers

Substrate Electrophoresis apparatus
Blotting device for hybridization

Constant-temperature water circulating system [Chiller]

Appendix