

NEW

Personal Lt-10F SX Set/Personal H-10 SH Set

Versatile Bench-top Water bath is equipped with Reciprocal shaking. 2 models for Low temp. and for High temp. For Cultivation of Particular Microbe and Preparation of Analysis samples.

•"Thermominder SX-10N/SH-10N" --> P.132



Personal H-10 SH set

Personal Lt-10F SX Set

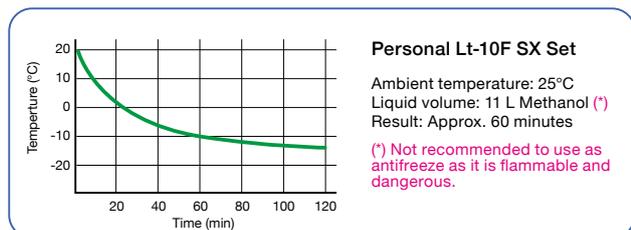
Features

- Benchtop Shaking water bath with -10°C to 180°C
- Reciprocal shaking, Shaking width adjustable
- Silicone oil can be used for High temp. type

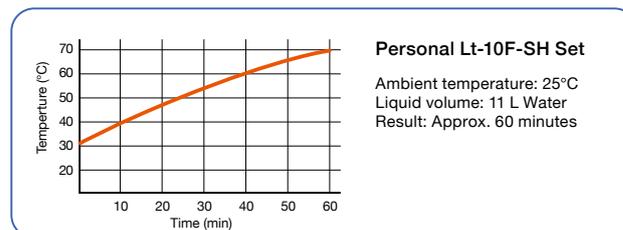
Applications

- Cultivation of Psychrophilic bacteria and Thermophilic bacteria
- Various incubations such as Enzyme reaction
- Preparation of X-ray analysis samples of Asbestos (Optional)

Falling temperature time (20°C --> -10°C)



Rising temperature time (30°C --> 70°C)



Model	Personal Lt-10F SX Set Personal Lt-10F and Thermominder SDN come as a set	Personal H-10 SH Set Personal H-10 and Thermominder EXN come as a set	
Thermominder	Temperature range (*)	-10°C to $+50^{\circ}\text{C}$	$+5^{\circ}\text{C}$ above RT to $+180^{\circ}\text{C}$
	Settable temp. range (**)	-20°C to $+105^{\circ}\text{C}$ (5°C to 105°C in SX-10N used singly)	-20°C to $+180^{\circ}\text{C}$
	Temp. control accuracy (***)	$\pm 0.1^{\circ}\text{C}$ to ($\pm 0.05^{\circ}\text{C}$ in SX-10N used singly)	$\pm 0.1^{\circ}\text{C}$
	Temperature memory	1	-
	Timer (****)	Buzzer notification for Preset time, Operation OFF, Temperature transition	Buzzer notification for Preset time, Operation OFF/Operation OFF
	Other functions	Buzzer notification when preset temp. is reached, Automatic tuning, Safety device output (Alarm out cable AOC-2 required to output.)	
	Heater	1000 W (Time proportional output variable)	
	Safe devices/protections	Circuit protector, Fuse, Dry-heating protection with float, Heater protection cover, 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	
	Power supply	AC 100 V/10.5 A	AC 100 V/11 A
	Standard accessories	Microtube Floater $\times 1$ pc, Plastic Water bath C-type $\times 1$ pc (*)	
Personal	Shaking method	Reciprocal shaking	
	Shaking speed/width	20 to 160 r/min (Digital display), 10 to 40 mm (Stepless variable, Default 30 mm)	20 to 160 r/min (Digital display), 10 to 30 mm (Stepless variable, Default 30 mm)
	Platform dimensions	220 \times 310 mm	
	Other functions	Elapsed time indicator (0.1 to 999.9 h, with Automatic reset) $\times 1$, Service outlet for Thermominder $\times 1$	
	Compressor	75 W	-
	Bath inside dim. (WxDxH)/volume	235 \times 430 \times 140 mm, Approx. 11 L (80% Water level, Approx. 10 L: Combined with Thermominder or Platform) (**)	
	Power supply	AC100V/4.5A /15A with SX-10N(Need a step-down transformer)	AC100V/0.5A /11.5A with SH-10N(Need a step-down transformer)
	Standard accessories	Dedicated Spring net Shaking platform $\times 1$ pc	
Dimensions (WxDxH)/weight	381 \times 545 \times 559 mm, Approx. 30 kg	336 \times 575 \times 457 mm, Approx. 22 kg	

(*)Max. temp. may not be reached when the optional Hood is not used or depending on the usage conditions. (**)Use antifreeze when below 7°C and heat medium for high temp. when above 70°C . See the right page for our specified heat medium. (***)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. (****)Each setting range is 1 min to 99 h 59 min. (**)This also serves as a packing box whereas it is not used together with the Personal-11 Set. (**)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

Each Detachable part



Personal Lt-10F is equipped with a drain hole as the water bath inside it cannot be removed due to its construction (Water bath inside Personal Lt-10F and Drain cock on the back are shown in left figure). Water bath inside Personal H-10 can be removed.

Capacity of Vessels Example

Spring net shaking platform (Spring pitch 15 mm)	φ11 mm Test tube (vertical)	187
	Centrifuge tube (30° tilted) 50ml	12
	Erlenmeyer flask 100mL	8
	Erlenmeyer flask 200mL	6
	Erlenmeyer flask 250mL	5
	Erlenmeyer flask 300mL	5
	Erlenmeyer flask 500mL	3

Optional accessories

USER'S VOICE

The lid plays an important role for energy saving when operated at High or Low temp!!



Personal Lt-10F SX set
Stainless steel-made Top lid
+ Asbestos Timer unit
Combination Examples

USER'S VOICE

High temp. type is also useful for culturing Hyperthermophiles slants (Slant medium).



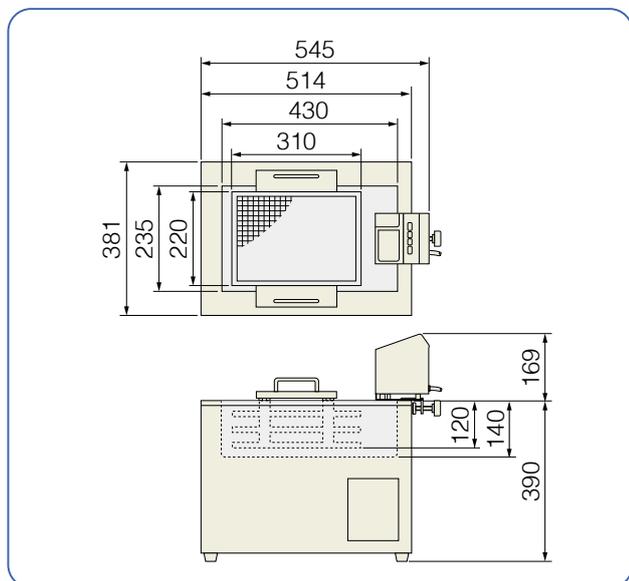
Personal H-10 SH set
Stainless steel-made Top lid
Combination Examples



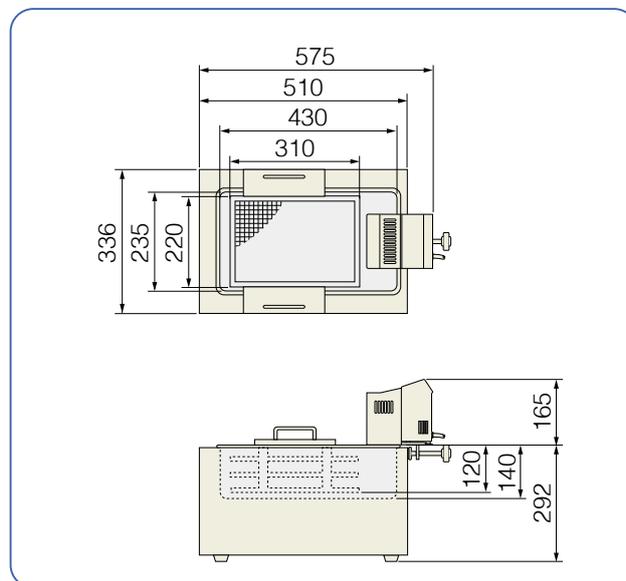
Personal Lt-10F is equipped with a Service outlet on the back lower left and while the Personal H-10 is equipped with one on the back lower right.

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 water level in the bath drops below the preset.
Asbestos Timer unit B	For automatically turning the Shaking ON and OFF. For Preparation of samples for X-ray analysis of Asbestos (for Lt-10F SX Set)
Heat medium for Low temp. (Antifreeze)/ Showbrine blue (20 kg)	Use it when below 7°C.
Heat medium for High temp. Silicone oil/ MA-50 (18 kg)	Kinetic viscosity 50 mm ² /s (at 25°C), Focuses Temp. accuracy, Recommended for temp. above 70°C
Heat medium for High temp. Silicone oil/ MA-100 (18 kg)	Kinetic viscosity 100 mm ² /s (at 25°C), Focuses Low evaporation, Recommended for temp. above 70°C

Personal Lt-10F SX set



Personal H-10 SH 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

Submarine Electrophoresis apparatus
Blotting device for hybridization

Constant-temperature water circulating system [Chillief]

Appendix