

Hybridization Incubator HB-80N/HB-100N

Enables the use of four kinds of stirring methods for various vessels by the easily replaceable shaking platform. The two models with different temp. are for heating only. Stackable and saves space.

- Bioshaker for High temp. Small size --> P.027, Middle size --> P.029 •Shaking water bath for High temp. --> P.136
- Electrophoresis and Blotting device --> P.186 to 189 •Optional accessories --> P.152

Features

- Four stirring methods for vessels with the easily replaceable platform
- Stackable up to Three levels, The height is 135 cm when stacked in Three levels
- HB-80N up to 80°C and HB-100N up to 100°C

Applications

- Various Hybridizations
- Decoloration of Gel and Membrane
- Cultivation of Enzyme reaction and Thermophilic bacteria at High temp.

2-action Kit exchanging (Common in SW/HB series)



Reciprocal/Seesaw Kit

Fix the platform at the bottom and insert the drive shaft into the two holes on left side.

See 1264 on page 152

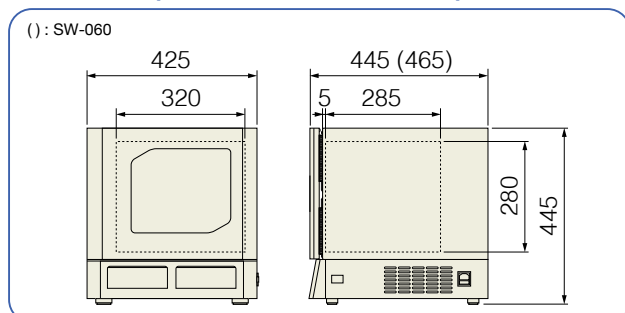


Bottle/Microtube Kit

Insert the shaft into the hole on right side and adjust the disk of shaft to the disk on left side.

See 567 on page 152

Dimensions (Common in SW/HB series)



Optional Seesaw Kit inside HB-80N



Optional Bottle Kit inside HB-100N

Renewal and unification of operation panel with 80N/100N

TAITEC's long-selling hybridization oven, HB series. The operation panels of the 80N and 100N have been renewed and unified. Two models are available for heating only: HB-80N for up to +80°C, and HB-100N for up to +100°C.

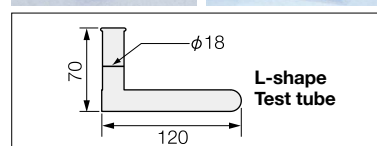
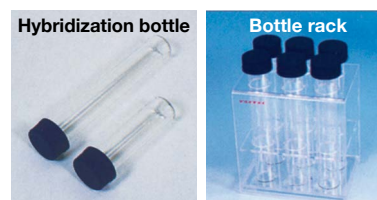
Model	HB-80N	HB-100N
Temperature range	+8°C above RT to +80°C	+8°C above RT to +100°C
Temp. control accuracy (°)	±0.1°C to 0.2°C	
Shaking motion	Seesaw, Reciprocal, and Rotation (Bottle rotation and Inversion stirring of Microtubes) by changing to the Optional Shaking Kit	
Shaking speed	5 to 60 r/min	
Platform effective dim.	260 × 230 mm	
Temp./Speed display	Digital	
Heater	300 W	
Circulating method inside the chamber	Flow-type	Semi-Air jacket and Flow-type
Safe devices/protections	Fuse, Heater overheat double safety device, Motor overload stop, Temp. controller error self-diagnosis, Sensor error display, Abnormal vibration diagnosis function	
Dimensions (W×D×H)	425 × 445 × 445 mm	
Weight	Approx. 30 kg	
Power supply	AC100V/3.5A (Need a step-down transformer)	
Standard accessories	Power cable×1 pc, Stackable bracket×1 pc	

(°)The value under ambient temperature around 25°C.

Optional accessories of SW/HB series: L-shape Test tube, Hybridization bottle, etc. (See page 152 for other optional accessories and options.)

Product name/Model	Remarks	Qty
Hybridization bottle (small) BT-3515	Inner diameter $\phi 33 \times 150$ mm (Cap is not included)	1 pc
Hybridization bottle (large) BT-3525	Inner diameter $\phi 33 \times 250$ mm (Cap is not included)	1 pc
Nylon mesh sheet 230	230 × 230 mm (°)	5 pcs
Bottle rack BL-4106	Acrylic-made Stand for 6 pcs of Bottles	1 pc
Bottle rack BL-4108	Acrylic-made Stand for 8 pcs of Bottles	1 pc
L-shape Test tube (10 pcs included)	Inner diameter $\phi 33 \times 120 \times 70$ mm with Rim	10 pcs

(°)Used as a spacer between membranes. Used by cutting it any size.



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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 (Chilled)

Appendix

SW/HB Series optional accessories

- Main unit of SW/HB Series --> P.150/151
- Monode Shaking with L-shape Test tube in Shaking Water bath --> P.137/141

● Seesaw Shaking such as Hybridization Bag and L-shape Test tube



① Seesaw Kit



② Seesaw Kit + Monod Shaking platform

Enables Seesaw Shaking. The moving distance of the liquid of Seesaw Shaking is larger than that of Reciprocal Shaking when the same size. Seesaw Shaking is better than Reciprocal Shaking when Hybridization Bag used. L-shape Test tube (sold separately) can be combined with the Monod Shaking Platform (sold separately).

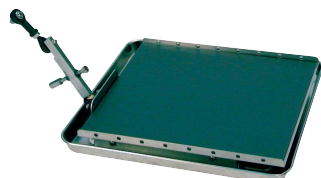
● Rotation of Hybridization Bottles



⑤ Bottle Kit

8 pcs of Optional Hybridization Bottle (small/large) can be attached. Even Commercial vessels that can be attached if the diameter and length can fit.

● Reciprocal Shaking with Plastic containers and Petri dishes



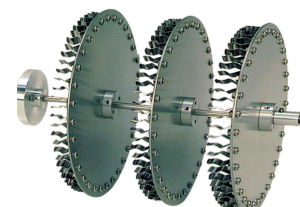
③ Reciprocal Kit



④ Reciprocal Kit + Reciprocal Multistage Shaking platform

Enables versatile Reciprocal Shaking. Can be widely used for Plastic containers and Petri dishes, etc. It can be combined with the Multistage Shaking platform (sold separately) that enables the processing of multiple samples simultaneously.

● Inversion stirring of Microtubes



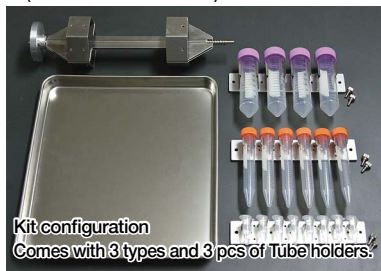
⑥ Microtube Kit

Up to 96 pcs of Commercial 1.5/2.0 mL Microtubes can be attached. Microtubes will be fixed in the direction of the Inversion stirring.

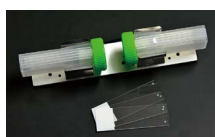
● Inversion stirring and Rotation of Micro Vials and Disposable Centrifuge tubes

⑦ Inversion stirring Kit

(Vessels are not included.)



The Set includes a Rotary shaft and 3 types of Tube holders (for 50 mL Disposable Centrifuge tube × 4 pcs, for 15 mL Disposable Centrifuge tubes × 6 pcs, and for Micro Vials × 8 pcs that fit to diameter of 1.5/2.0 mL Microtubes; Each 3 tubes) and a Tray. As the nails of holder can be attached by changing the direction by 90°, "in situ Hybridization", it can also be done by setting the 50 mL Disposable Centrifuge tube-sized Slide glass vessels in direction of the rotation as shown in the figure below.



The nails can be attached by changing the direction. (Vessels and Slide glass are not included.)



Shaking Kit		
Product name	Model	Vessels/Capacity/Shaking angle, etc.
① Seesaw Kit	S-2623	Plastic container, Hybrid Bag, etc. Angle: 4-step variation 7/8/11/15°
② Seesaw Kit + Monode Shaking platform	S-2623 + MD-1818	Dedicated for L-shape Test tubes (See page 150), 16 pcs (2-row × 8 pcs) Angle: 4-step variation 7/8/11/15°
③ Reciprocal Kit	R-2623	Plastic containers, Petri dishes, etc. Shaking width: 4-step variation 18/25/30/40 mm
④ Reciprocal Kit + Reciprocal Multistage Shaking platform	R-2623 + WR-2520	Plastic containers, Petri dishes, etc. Shaking width: 4-step variation 18/25/30/40 mm
⑤ Bottle Kit	B-4008	Bottle × 8 pcs In large sized Membranes, curl it off and put it in.
⑥ Microtube Kit	M-1596	1.5/2.0 mL Microtube × 96 pcs (32 pcs × 3) (Tubes can easily be attached just by pinching it to the claw.)
⑦ Inversion stirring Kit (*)	M-4000	Rotary shaft, Tray, M-0500 (for 4 pcs of 50 mL Disposable Centrifuge tube: 3 pcs) [M-0150 (for 15 mL Disposable Centrifuge tube × 6 pcs: 3 pcs)] [M-0015 (for 1.5/2.0 mL Microtubes, etc. × 8 pcs: 3 pcs)]. Up to 6 pcs of Tube holders can be attached on the rotating shaft when there is no interference with the vessels.

(*) Additional Tube holders are sold separately. [M-0500 (for 4 pcs of 50 mL Disposable Centrifuge tube: 3 pcs)] [M-0150 (for 15 mL Disposable Centrifuge tube × 6 pcs: 3 pcs)] [M-0015 (for 1.5/2.0 mL Microtubes, etc. × 8 pcs: 3 pcs)]. Up to 6 pcs of Tube holders can be attached on the rotating shaft when there is no interference with the vessels.

NEW

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Shaking Water bath
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Consistent temperature
ChambersCentrifugal
Concentration
Cold Trap

Freeze dryers

Substrate
Electrophoresis gels
Blotting device for
hybridizationConstant-temperature
water circulating
system [Chiller]

Appendix