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Articles

witeg® Digital Precise Shaking Water Bath, Reciprocating Motion, "WSB", 18-/30-/45-Lit., with Certi. & Traceability with Universal Spring Rack, Digital Fuzzy Control System Available, up to 2 Lit. Flask, 20 ~ 250 rpm, up to 100°C, ±0.1°C **NEW**

- with Certificate & Traceability :
Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Electronically Controlled Shaking Mechanism Provides Quiet Reciprocating Motion and Precise Speed Control
- Digital Fuzzy Controller Provides Precise Temperature Control
- Digital Feedback Controller Provides Precise Speed Control
- Hi-Performance Shaking Engine ensures Best Smoothly Shaking Motion and Minimum Noise and Vibration
- **Patented Shaking Mechanism** : Minimum Noise and Vibration
- **Patented Jog-Dial Control System** and Digital LCD with Back-Light Function
- CE Certified
- **PL(Product Liability) Insurance**

- * Ideal for Direct Immersion of Samples or Shaking in the Field of Biotechnology and Laboratories.
- * Hybridization Applications, Cell Cultures, Cell Aeration, Increasing Solubility Rates, Molecular
- * Biology Assays, Bacterial Cultures
- * Stainless Steel Bath for Superior Durability & High Thermal Efficiency
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- * Universal Stainless Steel Spring Rack Included : for various kind of Flasks and Tubes (up to 2)
- * User's Self-Compensation Function to Control Difference between Real Temperature and Indicated Temperature (±10.0°C)

Specification

Model	18 Lit. "WSB-18"	30 Lit. "WSB-30"	45 Lit. "WSB-45"	
Max.Q ty of Erlenmeyer Flask	250 ml x 4 ea	250 ml x 8 ea	250 ml x 15 ea	
Temp. Range & Accuracy	Ambient +5°C to 100°C, ±0.1°C			
Temp. Resolution	0.1°C-Display, 0.1°C-Control			
Temp. Uniformity & Probe	±0.5°C, PT100			
Heating Power	1.4 kW	1.8 kW	2.4 kW	
Shaking Speed & Resolution	20 ~ 250 rpm, 1rpm-Display/1rpm-Control			
Shaking Stroke (mm)	15, 20, 30 Available (20 as factory Default)			
Timer & Alarm	99hr 59min (Delay & Continuous run), Error status & Timer-end			
Display	Digital LCD with Back-Light Function			
Controller	Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)			
Safety Circuit	Over-Temp./-Current protection, Sensor Error Detection			
Rack	Included Stainless Steel Spring Rack: Universal-type			
Drain Valve	Mounted			
Material	Stainless Steel (#304)-Internal, Powder Coated Steel-External			
Dimension (w x d x h)	Internal (mm)	300 x 300 x h200	500 x 300 x h200	600 x 380 x h200
	External (mm)	563 x 353 x h340	763 x 353 x h340	863 x 433 x h340
Packing Size (mm) & Gross Weight (kg)		620 x 420 x h450, 24 kg	820 x 420 x h450, 26 kg	920 x 500 x h450, 32 kg
Power plug type	Hybrid E+F			
Power Supply*	AC 230V, 1N~, 50/60Hz			

* Other Specifications are available upon Customer's Request.

Ordering Information

- DH.WSB03018 Shaking Water Bath, 230V, 18 Lit., "WSB-18"
- DH.WSB03030 , 30 Lit., "WSB-30"
- DH.WSB03045 , 45 Lit., "WSB-45"

Spare Universal Spring Rack

- DH.WSB51018 (1) Spring Rack, for 18 Lit., 245 x 270 x h110mm, "SBR018"
- DH.WSB51030 , for 30 Lit., 445 x 270 x h110mm, "SBR030"
- DH.WSB51045 , for 45 Lit., 545 x 350 x h110mm, "SBR045"

Optional Dome Lid, Stainless Steel

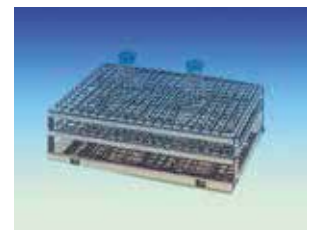
- DH.WSB02018 (2) Dome Lid, for 18 Lit., 363 x 353 x h69mm, "SBD018"
- DH.WSB02030 , for 30 Lit., 563 x 353 x h69mm, "SBD030"
- DH.WSB02045 , for 45 Lit., 663 x 433 x h69mm, "SBD045"

Validation (IQ, OQ) Service

- DH.WSB31018 Validation Service(IQ, OQ), "SBV018", for 18Lit.
- DH.WSB31030 , "SBV030", for 30Lit.
- DH.WSB31045 , "SBV045", for 45Lit.



Digital Precise Shaking Water Bath "WSB-18" with Universal Spring Rack



(1) Universal Spring Rack (Included)



(2) Dome Lid, Stainless Steel (Optional)