

Bath | circulation water bath

circulation water bath, 6 / 11 / 22l, up to 100°C ±0.1°C, 5 l/min, flat lid included

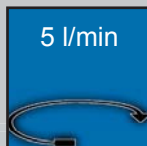
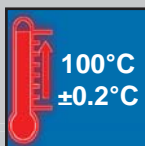
Distribuido por:



Tel. +34 854 53 63 74

satcliente@lrdiagnostico.com

www.lrdiagnostico.com



WCB-22 with flat lid (included)



Stainless steel flat lid (included)

WCB 100°C, 5 l/min, 6/11/22 l

Ideal for:

- biotechnology, clinical, environmental, medical, petroleum & food industry, pharmaceutical and industrial applications
- connection with evaporators and viscometers is applicable

Features:

- user's self-compensation function to control difference between real temperature and indicated temperature ($\pm 10.0^\circ\text{C}$)
- stainless steel bath & lid for superior durability & high thermal efficiency / consistency
- storage function for the set values of temperature and timer
- powerful circulation pump assures temperature uniformity: internal and external circulation
- storage function for the set values of temperature and timer
- backlight LCD display
- CE certified and unique serial number for tracing

Safety mechanism:

- locking mode
- over-temperature and over-current protection
- sensor error detection
- low water level warning and automatic stop function

Controller:

- digital fuzzy controller with **Jog-Shuttle-switch** (turn + push)

Model	WCB-6	WCB-11	WCB-22
Capacity	6 l	11 l	22 l
Temperature range & accuracy	room temperature +5°C - 100°C, $\pm 0.1^\circ\text{C}$		
Temperature resolution, uniformity & probe	0.1°C-display, 0.1°C-control, $\pm 0.2^\circ\text{C}$, PT100		
Heating power	800 W	1 kW	2 kW
Pump	max. flow rate 5 l/min (internal/external)		
Circulation nozzle	inner \varnothing 7 x outer \varnothing 11 mm (inner \varnothing 9/outer \varnothing 12 mm silicon tube connection for inner circulation)		
Timer & alarm	99hr 59 min (delay & continuous run), error status & timer end		
Drain valve	-		mounted (\varnothing 9.5 - 11 mm)
Effective space	120 x 155 x 150 mm	170 x 240 x 150 mm	372 x 295 x 150 mm
Internal dimensions (W x D x H)	300 x 155 x 150 mm	302 x 240 x 150 mm	500 x 295 x 150 mm
External dimensions (W x D x H)	330 x 185 x 385 mm	335 x 275 x 385 mm	540 x 335 x 410 mm
Packing size & gross weight	350 x 210 x 340 mm, 11 kg	360 x 300 x 420 mm, 13 kg	580 x 380 x 470 mm, 18 kg
Power supply	1 Phase AC 120V, 60 HZ or AC 230V, 50/60 Hz		
Order number 230V	DH.WCB00106	DH.WCB00111	DH.WCB00122
Order number 120V	DH.WCB00206	DH.WCB00211	DH.WCB00222

Cat. No	Description
---------	-------------

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

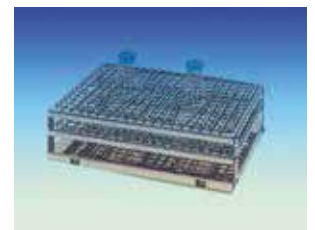
- DH.WSB02018 (2) Dome Lid, for 18 Lit., 363 x 353 x h69mm, "SBD018"
 DH.WSB02030 , for 30 Lit., 563 x 353 x h69mm, "SBD030"
 DH.WSB02045 , for 45 Lit., 663 x 433 x h69mm, "SBD045"

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



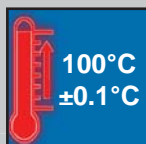
(1) Universal Spring Rack (Included)



(2) Dome Lid, Stainless Steel (Optional)

Bath | water bath

digital, 6 / 11 / 22 l, up to 100°C ±0.1°C, flat lid included



WB 100°C, digital

Ideal for:

- water bath for general purpose

Features:

- user's self-compensation function to control difference between real temperature and indicated temperature (±10.0°C)
- stainless steel bath & lid for superior durability & high thermal efficiency / consistency, dome lid optional
- digital timer function (99hr 59min): delay time and operation time can be controlled
- storage function for the set values of temperature and timer
- backlight LCD display
- CE-certified and unique serial number for tracing

Safety mechanism:

- locking mode
- over-temperature and over-current protection
- sensor error protection

Controller:

- digital fuzzy controller with **Jog-Shuttle-switch** (turn + push)



WB-11 with flat lid (included)

Model	WB-6	WB-11	WB-22
Capacity	6 l	11 l	22 l
Temperature range & accuracy	room temperature +5°C - 100°C, ±0.1°C		
Temperature resolution	0.1°C-display, 0.1°C-control		
Temperature uniformity & probe	±1.0°C, PT100		
Heating power	800 W	1 kW	2 kW
Timer & alarm	99hr 59 min (delay & continuous run), error status & timer end		
Drain valve	-	-	mounted (Ø9.5 - 11 mm)
Effective space	300 x 155 x 110 mm	302 x 240 x 110 mm	500 x 295 x 110 mm
Internal dimensions (W x D x H)	300 x 155 x 150 mm	302 x 240 x 150 mm	500 x 295 x 150 mm
External dimensions (W x D x H)	325 x 180 x 260 mm	325 x 265 x 260 mm	535 x 330 x 260 mm
Packing size & gross weight	350 x 210 x 310 mm, 8 kg	350 x 300 x 310 mm, 10 kg	570 x 360 x 310 mm, 14 kg
Power supply	1 Phase AC 120V, 60 HZ or AC 230V, 50/60 Hz		
Order number 230V	DH.WB000106	DH.WB000111	DH.WB000122
Order number 120V	DH.WB000206	DH.WB000211	DH.WB000222

Accessories:



Lid with concentric ring, stainless steel

Measurements	Article	Order number
for WB-6, 2 rings, 330x182xh20 mm	BFC106	DH.WB030106
for WB-11, 2 rings, 329x269xh20 mm	BFC111	DH.WB030111
for WB-22, 6 rings, 539x334xh20 mm	BFC122	DH.WB030122



Dome lid for water bath WB, stainless steel

Measurements	Article	Order number
for WB-6, 324x176xh100 mm	BD206	DH.WB010206
for WB-11, 324x263xh100 mm	BD211	DH.WB010211
for WB-22, 533x328xh100 mm	BD222	DH.WB010222



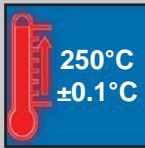
Tube rack, stainless steel

Measurements	Article	Order number
for WB-6, 36x Ø17 mm, 220x125xh79 mm	BTH106	DH.WB020106
for WB-6, 15x Ø32 mm, 220x125xh79 mm	BTH206	DH.WB020206
for WB-11, 63x Ø17 mm, 220x205xh79 mm	BTH111	DH.WB020111
for WB-11, 25x Ø32 mm, 220x205xh79 mm	BTH211	DH.WB020211

for WB-22 please choose between 4x BTH106/206 or 2x BTH111/211

Bath | circulation water bath

circulation water bath, 6 / 11 / 22 / 30 l, up to 250°C ±0.1°C, 16 l/min, flat lid included



WCH 250°C, 16 l/min, 6/12/22/30 l

Ideal for:

- applications at high temperature
- biotechnology, clinical, environmental, medical, petroleum & food industry, pharmaceutical and industrial applications
- connection with evaporators and viscometers is applicable

Features:

- corrosion resistant stainless steel bath with 1.2 mm thickness
- ceramic fibre insulator of 50 mm thickness and powder-coated steel body
- user's self-compensation function to control difference between real temperature and indicated temperature (±10.0°C)
- digital timer function (99hr 59min): delay time and operation time can be controlled
- drain valve mounted and stainless steel flat lid included
- storage function for the set values of temperature and timer
- backlight LCD display
- CE certified and unique serial number for tracing

Safety mechanism:

- overheat and over-current protection
- sensor error detection
- locking mode

Controller:

- digital fuzzy controller with **Jog-Shuttle-switch** (turn + push)



Stainless steel flat lid (included)



Connection for external circulation Ø12.5mm

Model	WCH-8	WCH-12	WCH-22	WCH-30
Capacity	8 l	12 l	22 l	30 l
Temperature range & accuracy	room temperature +5°C - 250°C, ±0.1°C			
Temperature resolution	0.1°C-display, 0.5°C-control			
Temperature uniformity & probe	±0.2°C, PT100			
Heating Power	1.0 kW	1.5 kW	2.2 kW	2.5 kW
External circulation nozzle	inner Ø10.5 mm, outer Ø12.5 mm			
Pump	max. flow rate: 16l/min, max. pressure: 5 psi, max. lift: 2.8m			
Timer & alarm	99hr 59 min (delay & continuous run), error status & timer end			
Effective space	180 x 130 x 155 mm	250 x 130 x 155 mm	340 x 250 x 155 mm	340 x 250 x 200 mm
Internal dimensions (W x D x H)	180 x 320 x 155 mm	250 x 320 x 155 mm	340 x 440 x 155 mm	340 x 440 x 200 mm
External dimensions (W x D x H)	303 x 443 x 569 mm	373 x 443 x 569 mm	463 x 563 x 569 mm	436 x 563 x 614 mm
Packing size & gross weight	470 x 400 x 500 mm, 19 kg	470 x 400 x 500 mm, 21 kg	600 x 490 x 500 mm, 23 kg	600 x 490 x 500 mm, 37 kg
Power supply	1 Phase AC 120V, 60 HZ or AC 230V, 50/60 Hz			
Order number 230V	DH.WCH00408	DH.WCH00412	DH.WCH00422	DH.WCH00430
Order number 120V	DH.WCH00508	DH.WCH00512	DH.WCH00522	DH.WCH00530