

Digital Shaking Incubators WS-300



Combining a bench top incubator/refrigerator with a dual-action (orbital and reciprocating) shaker, WS series shakers offer versatility for a variety of biological and biotech applications.

Shaking Features

- Dual shaking modes: orbital or reciprocating action.
- Speed range: 10 to 300 rpm.
- Programmable shaking motion.
Timer range: 10 sec to 999 hr. 59 min 59 sec.
Forward & Backward, Pause: 10 sec to 59 min 59 sec.
- Selectable orbit diameter or stroke length: 20, 30, 40mm.

Operating Features

- Temperature control: +5°C above ambient to 60°C.
- Microprocessor PID control.
- Simple calibration and auto-tuning functions.
- Digital timer with Delayed ON/OFF function: 1 min to 99 hr. 59 min.
- High temperature limit setting and open-door alarm.
- Convenient preset function for 3 most commonly used temperature settings.
- Up to 9 temperature steps and maximum 200 cycles of repetition programmable for each profile.

- Adjustable 3-step fan speed with defrosting time and period control.
- Intuitive control panel with bright LED display (0.1°C resolution) and touch-sensitive keypad.
- RS-232 interface.

Optional Accessories

- Universal / Dedicated Platforms, Rubber Mats, Universal Attachments
- Flask Clamps, Funnel Clamps
- Test Tube Racks, Spring Wire Racks
- Microplate Holders (three styles)
- Lab Sticker

Constructional Features

- Maintenance-free and durable BLDC motor.
- High-velocity fan ensuring uniform temperature distribution and rapid thermal recovery.
- Convenient sample monitoring thanks to the transparent acryl lid and the fluorescent lamp.
- Gas spring lid supports providing soft closing, smooth motion, and stopping.

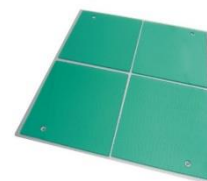
Specifications

Product Name	WS-300	
Volume(L)	53	
Temperature	Range(°C)	Ambient +5 ~ 60
	Accuracy(°C)	±0.1 (38)
	Stability(°C)	±1.0 (38)
	Controller	Touch Control; Digital Display with PID automatic regulation
	Heater	Heating Plate, 600W
	Timer	Start / Stop / Duration setting; 10sec ~999hr 59min 59sec
Shaker	Controller	PID automatic regulation
	Power Unit	Brushless motor
	Methods	Clockwise, Counter-clockwise, forth-back, interrupted,
	Shaking Throw (mm)	20, 30 (standard), 40
	Speed (rpm)	10 ~ 300
	Stability (rpm)	± 1 (at 150rpm)
Dimensions	Platform (W × D in mm)	350 × 350
	Inside (W × D × H in mm)	410 × 410 × 320
	Outside (W × D × H in mm)	440 × 740 × 625
Net Weight (kg)	74	
Max. Load (kg)	10	
Order No.	23101	

Accessories for Shaker incubators

Sticky Plate

The Wiggins Sticky Plate can be loaded with any kind of vessel with a smooth base. Even at a speed of up to 350 rpm the vessel sticks to the plate. Other vessels, like e.g. microtiter plates can be shaken on the Wiggins Sticky Plate as well. However, only up to a speed of 220 rpm.



Suitable for	WS-300
Order No.	31901
Dimensions (W x D in mm)	350x350(mm)

Universal Trays

The Universal Trays employ a drilled grid for individual loadings of test tube holders, microtiter plates, and deep well plates

Suitable for	WS-300
Order No.	31501
Dimensions (W x D in mm)	350x350(mm)
Max. Load of Beaker Holders (kg)	
50mL	28
100mL	24
250mL	13
300mL	13
500mL	10
1L	5
2L	4
2.8L	1
4L	-
Max. Load of Separatory Funnel Holders (kg)	
250mL	4
500mL	2
1L	-
2L	-



Adjustable Bar Tray

Suitable for	WS-300
Order No.	31514
Dimensions (W x D in mm)	300x300(mm)



Rubber Mats

Designed for low-speed applications, non-skid rubber mats allow quick addition or removal of flasks, plates or tubes.

Suitable for	WS-300
Order No.	31531



Multi-Purpose Tray

The multi-purpose tray is made of stainless steel and can be used for a diverse range of unusual specifications.

Suitable for	WS-300
Order No.	31521
Dimensions (W × D in mm)	350x350(mm)
Max. Load of Beakers	
50mL	16
100mL	9
250mL	4
300mL	4
500mL	4
1L	2
2L	1
2.8L	1



Separatory Funnel Holders

Funnel Volumes	250mL	500mL	1L	2L
Order No.	23562	23563	23564	23565



Erlenmeyer flask clamps

Beaker Volume	Reference No.	Order No.
25mL	31274	-
50mL	31279	23550
100mL	31271	23551
250mL	31275	23552
300mL	-	23556
500mL	31280	23553
1000mL	31272	23554
2000mL	31273	23555
2800mL Fern Bach	-	23557
3000mL	31277	-
4000mL	31278	23558
5000mL	31281	-
6000mL	-	23559



Plastic clamps for Erlenmeyer flask

Order No.	Description	Order No.	Description
31285	100ml	31287	500ml
31286	250ml		

Test tube rack for long type

Order No.	Description	Order No.	Description
31342	144 x Ø8mm	31356	39 x Ø18mm
31343	100 x Ø10mm	31358	36 x Ø20mm
31347	72 x Ø12mm	31359	33 x Ø22mm
31352	64 x Ø14mm	31360	20 x Ø25mm
31354	36 x Ø16mm	31361	16 x Ø30mm

Test tube rack for short type

Order No.	Description
31348	72 x Ø12mm
31353	64 x Ø14mm
31357	39 x Ø18mm (Suitable for Freiner Bio-one tube)



Rack for plastic test tube

Order No.	Description
31355	36x Ø16mm (15ml)
31362	16x Ø30mm (50ml)

187mm test tube rack for short type

Order No.	Description	Order No.	Description
31344	44 x Ø12mm	31349	21 x Ø20mm
31346			24 x Ø18mm

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