

Premium Compact Stackable Shaking Incubator



Advanced Expert of Cell Culture Incubation

INTRODUCTION

As a new member of the premium stackable shaking incubator range, the ZWYR-293 features compact design with smaller footprints, and maximized comfort, reliability and versatility for safe handling and incubation of any cultures or products. It's ideal for any shaking application requiring controlled temperature for microbiology, cell biology, cell culture, tissue culture, biochemistry, environmental engineering, soil testing field temperature range from 4°C to 60°C.

FEATURES

Maximized Capacity with Minimized Footprint

Ideal for benchtop and under-bench, but still up to two ZWYR-293 can be stacked for maximized shaking capacity with minimized floor space. Each unit runs independently. There is no special tools or kits necessary for stacking operation.

Intuitive Operation with Smart Controller

5.6" LCD 640x480 touch screen panel clearly indicates all parameters, and alarm prompts, in one page display and enables all complicated program settings intuitively just with finger tips.

Direct Beltless Driving System

Direct beltless driving system together with brushless DC motor provides quiet and vibration free shaking motion, allows extended speed ranges from 30 to 300 RPM, ± 1 RPM, even when unit is operating at top speed with maximum workload.

Stepless Adjustable Shaking Diameter

The shaking diameter can be changed from 1-30mm for optimum oxygenation and nutrient mixing and agitation in from small to large flasks. Larger shaking diameter up to 50mm available upon request.

Extended Chamber Capacity

The predrilled shaking tray (500x420mm) is included as standard accessory, taking up to 9 pcs of 1L Erlenmeyer flasks.

One piece of static shelf with adjustable positions (95-195mm from ceiling, 5 levels) included as standard, providing extra flexibility for static incubation

Plain shaking tray is also available as option for use together with stick mats (Max. 4pcs).

With internal height above the shaking tray of 415mm to the ceiling, the unit is compatible with 5L flasks even when the photosynthetic LED lighting panel is installed.

	P8021 50ml	P8022 100ml	P8023 250ml	P8024 500ml	P8026 1000ml	P8027 2000ml	P8028 3000ml	P8029 5000ml	P8012 96 Well Plate	P8010 Tube Rack
P6029Tray	53	42	23	14	9	6	4	2	12	4
P6028Tray	33	33	23	14	9	6	4	2	12	4







Easy Cleaning Chamber and Contamination Control

- The chamber is made of quality stainless steel with coved corners which minimizes the unnecessary chamber surfaces where contaminations can hide.
- The chamber bottom is designed to catch and drain excess water and liquid spills in case of any breakages through the outlet on the side.
- The UV sterilization system is isolated from the samples, sterilizes chamber air in the back chamber wall to maintain contamination-free conditions within the chamber even when chamber is loaded.

Photosynthetic LED Lightings

The photosynthetic LED lighting panel can be equipped for the cultivation of those phototrophic organisms, such as plant culture, algae, etc. Light panels available in warm white and blue & red, with light intensity up to 220 μ mol/(m²*s). Even light distributions over the shaking tray. Easy programmable for day and night simulations. With height of 10mm, the light panel minimizes the impact on the useable internal height above the shaking tray.

Complete Protection For Cell Culture

This model has been designed to include many features for the comprehensive of the application and the sample safety, hence providing you with added peace of mind.

- Key lock prevents unauthorized access to the valuable samples during cultivations.
- Automatic stop shaking motion, heating and cooling control when the door is opened.
- Sensor failure alarm.
- Over-current and leakage protection.
- Non-volatile memory guarantees data integrity in the event of power interruption.
- Audible and visual alarm when parameter deviates from the set point.

Data Logging

The units are equipped with USB Port as standard, so that operators could save all the operational parameters to the portable USB drive. The controller can save up to 5 days of data internally when USB drive is not connected. Option: RS-485 interface, Built-in printer, TCP/IP interface.

Other Features

- Internal chamber equipped with lighting ensure complete visibility.
- Fully insulated chamber and door with double folded glass window optimize the energy efficiency
- One piece of predrilled shaking tray included as standard, clamps excluded.



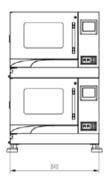
UV Light

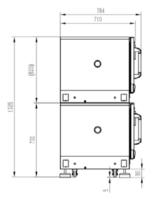


Photosynthetic Lighting (Option)



 Φ 50mm Access Port





SPECIFICATIONS:

	Machine			Shaking Unit		
Outside (WxDxH)	Drive Type		Direct Beltless Driving System			
Inside (WxDxH)	xDxH) 570*505*418mm		(WxD)	500x420mm		
Volume 120L		Maximum Load		15kg		
Net / Gross Weight	et / Gross Weight 120kg/165kg		e	30-300 rpm		
Control Panel	Control Panel TFT Touch Screen		racy	±1 rpm		
Illumination	llumination LED			0-9999 mins		
Language	English		de	Orbital		
Ambient TEMP.	Ambient TEMP. 5-35°C		meter	1-30mm Stepless Adjustment		
UV Light	′ Light ≥400 mW/m2			Temperature		
Noise Level	<55 dB (1m above floor)	Control Mode		Fixed Value & Program		
Power	765W	TEMP. Range		Ambient-15 to 60°C (Min. 4°C)#		
Electricity	AC 220-240 Volt, 50/60Hz TEMI		acy	0.1°C		
Data logging	USB port	TEMP. Uniformity		±0.5°C @37°C		
Static Shelf	Standard, 1 piece	Principle of Sensor		PT100		
Base Stand	Standard: H 20cm Options: H 35cm or H 50cm	Air Circulati	on	360m3/Hour		
Key Lock			937 °C)	8 mins (30 Seconds Door Opening)		
	Photo	nting				
Part NO.	P5031RB		P5031W			
Light Type	LED, 50% Red, 50% Blue	LED, 100% Wa		arm White		
Spectrum	Red: 640-660nm, Blue: 430-450nm		4500k:400-70	Onm		
Light Intensity	Up to 350 µmol/(m2*s)	Up to 220 μmo		ol/(m2*s)		
Control	Yes, Individually, from 0-100% output	Yes, from 0-10		00% output		
Power	60W					
Control Mode	Fixed Value & Programmable					
Dimensions (WxDxH)	nsions (WxDxH) 550x430x10mm					
# Min. 15°C when Photo	osynthetic Lighting option is applied.					

ORDERING INFORMATION:

Part NO.	Description	Part NO.	Description	
ZWYR-293	ZWYR-293, 120L, Premium Compact Shaking Incubator, 4-60, 30-300rpm	P8021	O Clamp, S/S, for 50ml Flask, with Spring Retainer	
P5031RB	LED Lighting Panel and Control Kit, Red & Blue, For ZWYR-293	P8022	O Clamp, S/S, for 100ml Flask, with Spring Retainer	
P5031W	LED Lighting Panel and Control Kit, Warm White, For ZWYR-293	P8023	O Clamp, S/S, for 250ml Flask, with Spring Retainer	
P5032-35	Cabinet Base Stand for ZWYR-293, 840x710x350mm	P8024	O Clamp, S/S, for 500ml Flask, with Spring Retainer	
P5032-50	Frame Base Stand for ZWYR-293, 840x710x500mm	P8025	O Clamp, S/S, for 750ml Flask, with Spring Retainer	
P6028	Tray for ZWYR-293, Predrilled	P8026	O Clamp, S/S, for 1000ml Flask, with Spring Retai	
P6029	Tray for ZWYR-293, Plain	P8027	O Clamp, S/S, for 2000ml Flask, with Spring Retainer	
P7024	Universal Spring Pallet for ZWYR-293	P8028	O Clamp, S/S, for 3000ml Flask, with Spring Retainer	
P8010	Tube Rack S/S	P8029	O Clamp, S/S, for 5000ml Flask, with Spring Retainer	
P8011	Tube Rack ABS Plastic	P4003	Built-in Printer	
P8032	O Clamp for 96 Well Plate, S/S	P5016	RS-485 Interface	
P8017	Sticky Mat, 20 x 20cm	P5033	TCP/IP interface	

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