

# Premium Stackable Shaking Incubators **LABWIT**<sup>®</sup>



ZWYR-D2402



## Description:

This ZWYR-D Series shaking incubators can be stacked up to three units high, providing laboratory professionals triple culture capacity, while still only occupying the same "footprint" of a single shaker. All models feature an insulated, fold-down door with double-layer glass window for high visibility. On all refrigerating models, microprocessor controller provides unmatched versatility by enable users to create personalized program (with up to 9 segments, with cycling) to automate changes to function parameters.



ZWYR-D2401 With P5010



ZWYR-D2403



## Features:

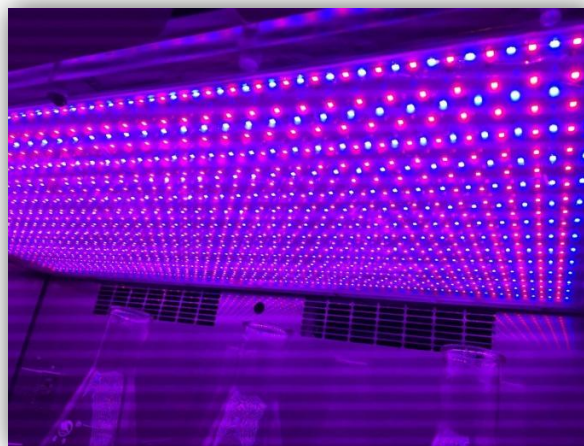
- Stackable up to three units for maximum space savings.
- 5.6" LCD 640x480 touch screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips.
- Wide-view fold-down door with door handle, and ergonomic sliding-out shaking platform provide convenient access to your experiment products.
- Direct beltless driving system is both durable and economical, maintenance free, allows extended speed ranges from 30 to 300 RPM,  $\pm 1$  RPM with minimized vibration, even when shakers are stacked of three high. The shaking diameter can be changed from 1-50mm for optimum oxygenation and nutrient mixing and agitation in from small to large flasks.
- The top of the casing can be further used as a work area for locating small items of lab equipment etc.
- The incubator casing is made of heavy-gauge cold-rolled steel; together with high graded #304 stainless steel inner chambers with coved corners make it easy to clean with mild detergent. Chamber is tall enough to hold 2L Erlenmeyer flasks.
- The ceiling of the unit can be upgraded and fitted with LED lighting kit for cultivation of phototrophic organisms. Mono/dual light colors are possible and the intensity of each color can be independently controlled and programmed to simulate day/night cycles, perfect for plant cell culture.
- Robust brushless DC motor enables shaking motion quiet and smooth, even when unit is operating at top speed with maximum workload.
- Non-volatile memory saves settings during a power outage and automatically restarts the unit after power is restored.
- For data recording, the units are equipped with a built-in thermo printer as standard, so that operators could check how the performance parameters vary according to specified process without having to be on site.
- Predrilled platform as standard configuration, flask clamps excluded.
- For a comfortable working height, the base stands are available in 500mm high.

Flask (ml)	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml
ZWYR-D2401	50	50	32	26	20	14	8
ZWYR-D2402	100	100	64	52	40	28	16
ZWYR-D2403	150	150	96	78	60	42	24

## Specifications:

Model	ZWYR-D2401	ZWYR-D2402	ZWYR-D2403
Control	P.I.D Microprocessor		
Control Mode	Fix Value or Program (up to 9 Segments)		
Control Panel	LCD Touch Screen		
Air Convection	Forced		
Shaking Mode	Orbit		
Volume/ Compartment (L)	190		
Ambient Temperature(°C)	10-35		
Shaking Speed (rpm)	30-300		
Stroke (mm)	Ø1-50 Stepless Adjustable		
Temperature Range (°C)	4-60#		
Temperature Accuracy (°C)	0.1		
Temperature Uniformity (°C)	±1°C@37°C		
Timer	1 to 9999 mins		
Tray (mm) (WxD)	800x430		
Tray Included	1	2	3
Inner Dimensions (mm) (WxDxH)	920x532x395		
Exterior Dimensions (mm) (WxDxH)	1300x930x735	1300x930x1315	1300x930x1895
Packing Dimensions (mm) (WxDxH)	1420x1050x905	1420x1050x1480	1420x1050x2060
Net/Gross Weight (kg)	250/290	430/500	630/730
Power (W)	1200	2400 (1200*2)	3600 (1200*3)
Electricity	220-240V 50/60 Hz		
Approval	CE, ISO		
Security	Over-temperature Protection, Compressor Overload Protection, Electrical Leakage Protection		
Additional	Built-in Printer, RS485 COM Kit (Option), LED Lighting Control Kit (Option), Base Stand(Option)		

P5011	Lighting Control Kit (Option)
Light Source	LED,
Light Color*	50% Red, 50% Blue
Spectrum	Red: 640-660nm, Blue: 430-450nm
Light Intensity	13,000 Lux (Red: 6500Lux, Blue:
Control Range	Individually, from 0-100% output
Control Mode	Fixed Value & Programmable
Panel Dimensions	890x500x10mm
Power	300W



\*Fully customized color combinations are available, contact Labwit representatives for more information.

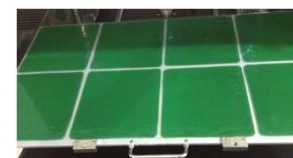
# Min. Operating Temperature: 15 ° C when Photosynthetic Lighting option is applied.

## Ordering Information:

Part Number	Descriptions
ZWYR-D2401	ZWYR-D2401, 190Lx1, Premium Stackable Shaking Incubator, Single, 4-60°C, 30-300rpm
ZWYR-D2402	ZWYR-D2402, 190Lx2, Premium Stackable Shaking Incubator, Double, 4-60°C, 30-300rpm
ZWYR-D2403	ZWYR-D2403, 190Lx3, Premium Stackable Shaking Incubator, Triple, 4-60°C, 30-300rpm
P5010	Base Stand for ZWYR-D2401, 1300*800*500mm
P5011	LED Lighting Panel and Control Kit, For ZWYR-D2401/D2402/D2403, ZWYC-290A, 890x500mm
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well Plate, S/S
P8017	Sticky Mat, 20 x 20cm
P8021	O Clamp, S/S, for 50ml Flask, with Spring Retainer
P8022	O Clamp, S/S, for 100ml Flask, with Spring Retainer
P8023	O Clamp, S/S, for 250ml Flask, with Spring Retainer
P8024	O Clamp, S/S, for 500ml Flask, with Spring Retainer
P8025	O Clamp, S/S, for 750ml Flask, with Spring Retainer
P8026	O Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8027	O Clamp, S/S, for 2000ml Flask, with Spring Retainer



O Clamps



P8017 Sticky Mat



P8010

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