

Premium Stackable Shaking Incubators



ZWYR-D2402

Description:

This ZWYR-D Series shaking incubators can be stacked up to three units high, providing laboratory professionals tripled 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 P5010-50



ZWYR-D2403 with P5017



ZWYR-D2401 With P5010-35

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.
- ★ **New** ● Wide-view fold-down door with door handle, and ergonomic sliding-out shaking platform provide convenient access to your experiment products. Fold-up door option (#P5017) available for ZWYR-D2403 for easy loading on the top unit.
- Direct beltless driving system is both durable and economical, maintenance free, allows extended speed ranges from 30 to 300 RPM, ± 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 cool white, or Red & Blue 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.
- ★ **New** ● Internal UV light as standard provides proactive contamination control when needed.
- Predrilled platform as standard configuration, flask clamps excluded. Plain tray available for use with sticky mats (max. 8 pcs per ZWYR-D2401 unit)
- For a comfortable working height, the base stands are available in 35cm cabinet base stand (#P5010-35); 50cm Frame base stand (#P5010-50)

Flask (ml)	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	P8010	P8012
ZWYR-D2401	91	50	38	26	18	18	8	8	19
ZWYR-D2402	180	100	76	52	36	36	16	16	38
ZWYR-D2403	270	150	114	78	54	54	24	24	57

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)	±0.5°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)	1420x1050x90	1420x1050x1480	1420x1050x2060
Net/Gross Weight (kg)	250/290	430/500	630/730
Power (W)	1200	2400	3600
Electricity	220-240V 50/60 Hz		
Approval	CE, ISO		
Security	Over-temperature Protection, Compressor Overload Protection, Electrical Leakage Protection		
Additional	Built-in Printer, RS485 Interface (Option), LED Lighting Control Kit (Option), Base Stand(Option)		

Lighting Control Kit	P5011RB	P5011WW
Light Source	LED	
Light Color*	50% Red, 50% Blue	100% Warm White
Spectrum	Red: 640-660nm, Blue: 430-450nm	4000k:400-700nm
Light Intensity	Up to 700 µmol/(m²*s)	Up to 400 µmol/(m²*s)
Control Range	Individually, from 0-100% output	
Control Mode	Fixed Value & Programmable	
Panel Dimensions	890x500x10mm	
Power	300W	



P5011RB: (50% Red, 50% Blue)



P5011WW: (100% Warm White)

*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	Part Number	Descriptions
ZWYR-D2401	ZWYR-D2401, 190Lx1, Premium Stackable Shaking Incubator, Single, 4-60°C, 30-300rpm	P8010	Tube Rack S/S
ZWYR-D2402	ZWYR-D2402, 190Lx2, Premium Stackable Shaking Incubator, Double, 4-60°C, 30-300rpm	P8012	Clamp for 96 Well Plate, S/S
ZWYR-D2403	ZWYR-D2403, 190Lx3, Premium Stackable Shaking Incubator, Triple, 4-60°C, 30-300rpm	P8017	Sticky Mat, 20 x 20cm
P5010-35	Cabinet Base Stand for ZWYR-D2401, H35cm	P8021	O Clamp, S/S, for 50ml Flask, with Spring Retainer
P5010-50	Frame Base Stand for ZWYR-D2401, H50cm	P8024	O Clamp, S/S, for 500ml Flask, with Spring Retainer
P5011RB	LED Lighting Panel, For ZWYR-D2401/D2402/D2403, ZWYC-290A, Red & Blue	P8022	O Clamp, S/S, for 100ml Flask, with Spring Retainer
P5011WW	LED Lighting Panel, For ZWYR-D2401/D2402/D2403, ZWYC-290A, Warm White	P8023	O Clamp, S/S, for 250ml Flask, with Spring Retainer
P5016	RS-485 Interface	P8024	O Clamp, S/S, for 500ml Flask, with Spring Retainer
P5017	Upward Door Opening for ZWYR-D2401/D2402/D2403	P8025	O Clamp, S/S, for 750ml Flask, with Spring Retainer
P6024	Predrilled Tray for ZWYR-D2401/2402/2403	P8026	O Clamp, S/S, for 1000ml Flask, with Spring Retainer
P6025	Tray for ZWYR-D2401/2402/2403, Plain	P8027	O Clamp, S/S, for 2000ml Flask, with Spring Retainer



O Clamps



P8017 Sticky Mat



P8010 Test Tube Rack

Labwit quality assurance program demands the continuous assessment and improvement of all Labwit products. Information in this leaflet could thus change without notification and does not constitute a product specification. Please contact Labwit or their representatives if you require more details