Premium Stackable Shaking Incubators





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

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. 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 Frienmeyer 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
 eito.
- 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 ZYWR-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)

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ZWYR-D2401 V	Nith F	25010-35

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	I	_CD Touch Screen	1	
Air Convection		Forced		
Shaking Mode		Orbit		
Volume/ Compartment (L)		190		
Ambient Temperature(ºC)		10-35		
Shaking Speed (rpm)	30-300			
Stroke (mm)	Ø1-50 Stepless Adjustable			
Temperature Range (ºC)	4-60#			
Temperature Accuracy (ºC)	0.1			
Temperature Uniformity (ºC)	±0.5 ºC@37 °C			
Timer	1 to 9999 mins			
Tray (mm) (WxD)	800x430			
Tray Included	1 2 3		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			
Socurity	Over-temperature Protection, Compressor			
Security	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 $^\circ$ 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℃, 30-300rpm	P8010	Tube Rack S/S
ZWYR-D2402	ZWYR-D2402, 190Lx2, Premium Stackable Shaking Incubator, Double, 4-60 °C, 30-300rpm		Clamp for 96 Well Plate, S/S
ZWYR-D2403	ZWYR-D2403, 190Lx3, Premium Stackable Shaking Incubator, Triple, 4-60℃, 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







P8017 Sticky Mat

Sticky Mat P8010 Test Tube Rack