



# PREMIUM STACKABLE SHAKING INCUBATORS

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# Darsun Scientific

## PREMIUM STACKABLE SHAKING INCUBATORS

DSYR-D2401/DSYR-D2402/DSYR-D2403



### Product Overview

- 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 DSYR-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,  $\pm 1$  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 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.
- 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 DSWR-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)

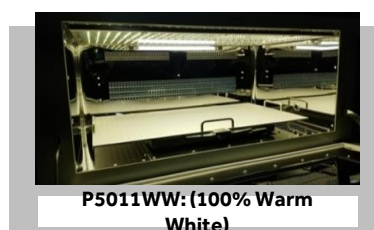
Model	DSYR-D2401	DSYR-D2402	DSYR-D2403
Control	P.I.D Microprocessor		
Control Mode	Fix Value or Program (up to 9 Segments)		
Control Panel	LCD Touch Screen		
Air Convection	Forced		
Shaking Mode	Orbit		
Volume/ Compartment (L)	190		
Ambient Temperature(°C)	10-35		
Shaking Speed (rpm)	30-300		
Stroke (mm)	Ø1-50 Stepless Adjustable		
Temperature Range (°C)	4-60#		
Temperature Accuracy (°C)	0.1		
Temperature Uniformity (°C)	$\pm 0.5^{\circ}\text{C}@37^{\circ}\text{C}$		
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)		



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
DSYR-D2401	91	50	38	26	18	18	8	8	19
DSYR-D2402	180	100	76	52	36	36	16	16	38
DSYR-D2403	270	150	114	78	54	54	24	24	57

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 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$	Up to 400 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$
Control Range	Individually, from 0-100% output	
Control Mode	Fixed Value & Programmable	
Panel Dimensions	890x500x10mm	
Power	300W	



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

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

## ORDERING INFORMATION

PART NUMBER	DESCRIPTIONS	PART NUMBER	DESCRIPTIONS
DSYR-D2401	DSYR-D2401, 190Lx1, Premium Stackable Shaking Incubator, Single, 4-60°C, 30-300rpm	P8010	Tube Rack S/S
DSYR-D2402	DSYR-D2402, 190Lx2, Premium Stackable Shaking Incubator, Double, 4-60°C, 30-300rpm	P8012	Clamp for 96 Well Plate, S/S
DSYR-D2403	DSYR-D2403, 190Lx3, Premium Stackable Shaking Incubator, Triple, 4-60°C, 30-300rpm	P8017	Sticky Mat, 20 x 20cm
P5010-35	Cabinet Base Stand for DSYR-D2401, H35cm	P8021	O Clamp, S/S, for 50ml Flask, with Spring Retainer
P5010-50	Frame Base Stand for DSYR-D2401, H50cm	P8024	O Clamp, S/S, for 500ml Flask, with Spring Retainer
P5011RB	LED Lighting Panel, For DSYR-D2401/D2402/D2403, DSYC-290A, Red & Blue	P8022	O Clamp, S/S, for 100ml Flask, with Spring Retainer
P5011WW	LED Lighting Panel, For DSYR-D2401/D2402/D2403, DSYC-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 DSYR-D2401/D2402/D2403	P8025	O Clamp, S/S, for 750ml Flask, with Spring Retainer
P6024	Predrilled Tray for FDYR-D2401/2402/2403	P8026	O Clamp, S/S, for 1000ml Flask, with Spring Retainer
P6025	Tray for FDYR-D2401/2402/2403, Plain	P8027	O Clamp, S/S, for 2000ml Flask, with Spring Retainer

### O Clamps



### P8017 Sticky Mat



### P8010 Test Tube Rack

