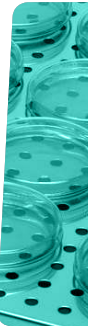


SHAKING INCUBATORS

INTRODUCTION OF PREMIUM RANGE



Following the success of the economic shaking incubator range, the upgraded premium shaking incubator range are introduced to offer the excellent basic functions same as the economic range, but with a bunch of advanced upgraded features to enhance the user experience as well as the functionality of this one of the most common type of equipments in modern labs.

- ▶ An intuitive LCD TFT touch screen panel achieves easy operation and clear display.
- ▶ Sophisticated cooling system ensures long term non-frost operation at low temperature (4°C).
- ▶ Under the new programmable control mode, the unit can now be programmed to operate according to personalized “ramp and soak” cycles of both temperature and shaking speed.
- ▶ Built-in printer is included as standard to ensure continuous monitor over the operating parameters.





ZWYR-D2402



ZWYR-D2401



ZWYR-D2403



PREMIUM STACKABLE Shaking Incubators

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.

- ▶ 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, ± 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. (See next page for more information)
- ▶ 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.
- ▶ UV light reduces the air burden, keeping the chamber contamination free.

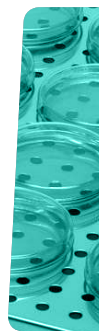
Model	ZWYR-D2401	ZWYR-D2402	ZWYR-D2403
Control	P.I.D Microprocessor		
Control Mode	Fix Value or Program (up to 9 Segments)		
Control Panel	LCD Touch Screen		
Air Convection	Forced		
Shaking Mode	Orbit		
Volume/ Compartment (L)	190		
Ambient Temperature(°C)	10-35		
Shaking Speed (rpm)	30-300		
Stroke (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	450/540	650/750
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	UV light, Built-in Printer, RS485 COM Kit (Option), LED Lighting Control Kit (Option), Base Stand(Optional)		

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

Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	Tube Rack S/S	96 Well Plate
ZWYR-D2401	91	50	38	26	15	15	8	8	19
ZWYR-D2402	182	100	76	52	30	30	16	16	38
ZWYR-D2403	273	150	114	78	45	45	24	24	57

Photosynthetic Lighting

Light Type	LED, 50% Red, 50% Blue
Spectrums	Red: 640-660nm, Blue: 430-450nm
Light Intensity	13,000 Lux (Red: 6500 Lux, Blue: 6500 Lux)
Control	Yes, Individually, from 0-100% output
Control Mode	Fixed Value & Programmable
Dimensions	890x500x10mm
Power	300W





Order Information

ZWYR-D2401	ZWYR-D2401, 190Lx1, Premium Stackable Shaking Incubator, Single, 4-60, 30-300rpm
ZWYR-D2402	ZWYR-D2402, 190Lx2, Premium Stackable Shaking Incubator, Double, 4-60, 30-300rpm
ZWYR-D2403	ZWYR-D2403, 190Lx3, Premium Stackable Shaking Incubator, Triple, 4-60, 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

※ S/S: Stainless Steel



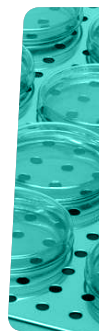


ZWYR-240



ZWYR-200D

ZWFR-200



PREMIUM BENCHTOP Shaking Incubators

This new premium benchtop shaking incubators provided by LABWIT offer conditions of time, broad temperature and orbital or reciprocal agitation capabilities for meeting comprehensive requirement of the growth of biological organisms. This P.I.D microprocessor controlled shakers have a number of advanced features that are really unique in bench top models. This unique benchtop model with shaking diameter stepless adjustable from 1-50mm provides unmatched flexibility for meeting comprehensive application requirements. The sophisticated PID controller provides these units with choices of not only constant controlling one fixed temperature and speed, but also programmed controlling with a series of "ramps and soaks" segments on time basis. 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.

- ▶ 4.3" LCD 480x272 touch screen panel clearly indicates all parameters in one page display and makes it easy to change the operating parameters settings, even those multi set points under programmable mode intuitively.
- ▶ P.I.D 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.
- ▶ Inner chamber & tray from high graded #304 electro polished stainless steel.
- ▶ Robust single eccentric counterbalanced drive in cast iron housing provides vibration and trouble free operation with high shaking speed up to 600rpm.
- ▶ The versatility of the driving system allows stroke continuous adjustment from 1 to 50 mm for optimum oxygenation and nutrient mixing and agitation in from small to large flasks.
- ▶ Quality brushless AC inductive motor supports reliable, quiet and smooth shaking movements up to top speed.
- ▶ Non-volatile memory saves settings during a power outage and automatically restarts the unit after power is restored.
- ▶ Audible and visual alarms on over temperature and motor overheating, and automatically cut off the power.
- ▶ Soft start and smooth acceleration when lid is closed after short opens.
- ▶ 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.
- ▶ Timer up to 9999 mins under fixed value control mode.
- ▶ Predrilled standard tray included, without clamps.



Model	ZWYR-200D	ZWYR-240	ZWFR-200
Control	P.I.D Microprocessor		
Control Mode	Fix Value or Program (up to 9 Segments)		
Control Panel	4.3" LCD Touch Screen		
Volume (L)	69		
Shaking Speed (rpm)	30-600	30-400	30-240
Stroke (mm)	1-50 Stepless Adjustment		
Shaking Mode	Orbital		Reciprocal
Tray (mm) (WxD)	400x370		435x420
Ambient Temperature(°C)	5-25		
Temperature Range (°C)	4-60		
Temperature Accuracy (°C)	0.1		
Temperature Uniformity (°C)	±1°C@37°C		
Timer	1 to 9999 mins		
Inner Dimensions (mm) (WxDxH)	490x470x320	490x470x335	490x470x320
Exterior Dimensions (mm) (WxDxH)	774x740x610		
Packing Dimensions (mm) (WxDxH)	860x850x760		
Net/Gross Weight (kg)	100/132		
Power (W)	700		
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)		

Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	Tube Rack S/S	96 Well Plate
ZWYR-200D	23	23	12	9	7	5	-	3	8
ZWYR-240	23	23	12	9	7	5	4	3	8
ZWFR-200	23	23	12	9	7	5	-	3	8

Order Information

ZWYR-200D	ZWYR-200D, 69L, Premium Orbital Shaking Incubator 4-60, 30-600rpm
ZWYR-240	ZWYR-240, 69L, Premium Orbital Shaking Incubator 4-60, 30-400rpm
ZWFR-200	ZWFR-200, 69L, Premium Reciprocal Shaking Incubator 4-60, 30-240rpm

P6004	Tray for ZWYR-240/200D, ZWY-240/200D, S/S *
P6005	Tray for ZWFR-200, ZWF-200, S/S
P7003	Universal Tray for ZWYR-240/200D, ZWY-240/200D
P7005	Universal Tray for ZWFR-200, ZWF-200
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer

P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well Plate, S/S
P8017	Sticky Mat, 20 x 20cm

* S/S: Stainless Steel

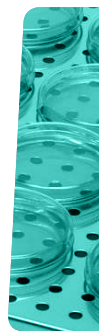


ZWYR-211C



ZWFR-211

ZWYR-211D



PREMIUM HORIZONTAL Shaking Incubators

These new premium horizontal floor shaking incubators are developed for the modern biological engineering departments; large capacity of smaller size flasks, or for large volume flasks up to of 5L. The units are widely used in applications of germ culture, fermentation, hybridization, biochemical research, enzyme and cellular tissues.

- ▶ 4.3" LCD 480x272 touch screen panel clearly indicates all parameters in one page display and makes it easy to change the operating parameters settings, even those multi set points under programmable mode intuitively.
- ▶ P.I.D 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.
- ▶ Large double fold tempered glass window and fluorescent light provide complete visibility of chamber interior.
- ▶ ZWYR-211D is equipped with foot pedal for lid opening even when carrying full loads in both hands.
- ▶ Inner chamber with coved corners of high graded #304 electro polished stainless steel features excellent durability as well as ease of cleaning.
- ▶ Robust triple eccentric counterbalanced drive in cast iron housing provides vibration and trouble free operation with high shaking speed up to 300rpm.
- ▶ Quality brushless AC inductive motor supports reliable, quiet and smooth shaking movements up to top speed.
- ▶ Non-volatile memory saves settings during a power outage and automatically restarts the unit after power is restored.
- ▶ Audible and visual alarms on over temperature and motor overheating, and automatically cut off the power.
- ▶ Soft start and smooth acceleration when lid is closed after short opens.
- ▶ 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.
- ▶ Timer up to 9999 mins under fixed value control mode.
- ▶ Predrilled standard tray included, without clamps.
- ▶ UV light reduces the air burden, keeping the chamber contamination free.

Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	3000ml	5000ml	Tube Rack S/S	96 Well Plate
ZWYR-211C	66	66	41	28	24	15	11	8	6	10	28
ZWYR-211D	77	77	54	36	26	18	15	8	6	12	32
ZWFR-211	66	66	45	28	24	15	8	8	-	10	28

*Glass dimensions may reduce max. capacity

Model	ZWYR-211C	ZWYR-211D	ZWFR-211
Control	P.I.D Microprocessor		
Control Mode	Fix Value or Program (up to 9 Segments)		
Control Panel	4.3" LCD Touch Screen		
Door Opening Mode	Hand Hold	Foot Pedal	Hand Hold
Volume (L)	260	300	275
Working Temperature (°C)	5-25		
Shaking Speed (rpm)	30-300		30-240
Stroke (mm)	Ø26		1-50 Stepless Adjustment
Shaking Mode (°C)	Orbital		Reciprocal
Tray (mm) (WxD)	920x500	940x584	896x530
Temperature Range (°C)	4-60		
Temperature Accuracy (°C)	0.1		
Temperature Uniformity (°C)	±1°C@37°C		
Timer	1 to 9999 mins		
Inner Dimensions (mm) (WxDxH)	975x565x465	1040x655x465	975x565x465
Exterior Dimensions (mm) (WxDxH)	1230x730x1065	1290x820x1065	1230x730x1065
Packing Dimensions (mm) (WxDxH)	1300x840x1225	1360x910x1225	1300x800x1225
Net/Gross Weight (kg)	255/308	263/313	213/252
Power (W)	1150	1800	1150
Electricity	220-240V 50/60 Hz		
Approval	CE, ISO		
Security	Over-temperature Protection, Compressor Overload Protection, Electrical Leakage Protection		
Additional	UV light, Built-in Printer, RS485 COM Kit (Option)		

Order Information

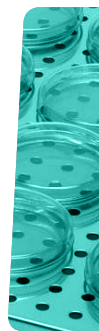
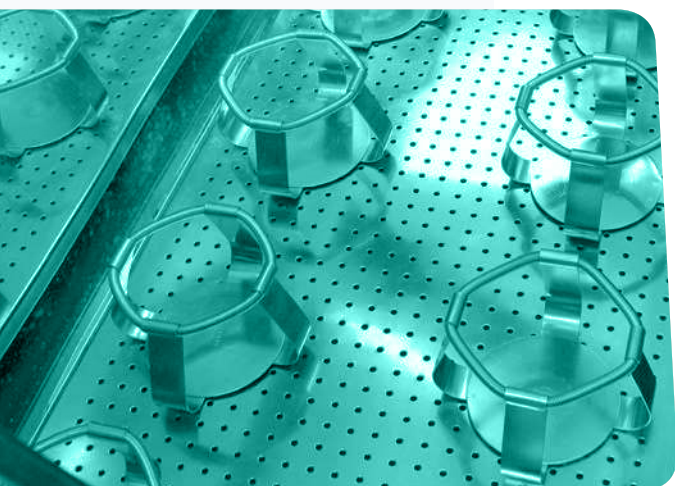
ZWYR-211C	ZWYR-211C, 260L, Premium Horizontal Shaking Incubator 4-60, 30-300rpm
ZWYR-211D	ZWYR-211D, 300L, Premium Horizontal Shaking Incubator 4-60, 30-300rpm
ZWFR-211	ZWFR-211, 275L, Premium Reciprocal Horizontal Shaking Incubator 4-60, 30-240rpm
P6006	Tray for ZWY-111B/211B/111C/211C/ZWYR-211C, S/S ※
P6007	Tray for ZWYR-211D, S/S
P6008	Tray for ZWF-111/211/ZWFR-211, S/S
P7007	Universal Tray for ZWY-111B/211B/111C/211C/ZWYR-211C, Ful Pcs
P7008	Universal Tray for ZWYR-211D, Ful Pcs
P7009	Universal Tray for ZWF-111/211, ZWFR-211, Ful Pcs
P7022	Universal Tray for All Horizontal Model, 1/2 Pcs
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer

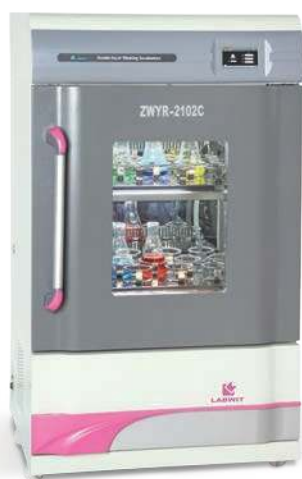
※ S/S: Stainless Steel

Order Information

P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8007	T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P8008	T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P8009	T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well Plate, S/S
P8017	Sticky Mat, 20 x 20cm

※ S/S: Stainless Steel





ZWYR-2102C



ZWYR-2102

ZWYR-2112B



PREMIUM DOUBLE LAYER Shaking Incubators

These new double layer shaking incubators in a class of their own, are specially developed a cost effective and space saving solution for the modern biological engineering departments; the units are widely used in the applications of germ culture, hybridization, biochemical research, enzyme and cellular tissues.

These incubators have a smooth compact design, which are very efficient and have an excellent floor space/performance factor. The double layer shaking frame supports two trays above each other, doubles the capacity for smaller flasks, while after removing the top tray (Shaking frame upgrade required).

- ▶ 4.3"/5.6" LCD touch screen panel clearly indicates all parameters in one page display and makes it easy to change the operating parameters settings, even those multi set points under programmable mode intuitively.
- ▶ P.I.D 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.
- ▶ Large double fold tempered glass window on the front doors together with the fluorescent light provide complete visibility of chamber interior.
- ▶ Mirror-finished high quality #304 stainless steel for excellent durability of interiors.
- ▶ Non-volatile memory for set point retention after power interruption.
- ▶ Robust triple eccentric counterbalanced drive in cast iron housing provides vibration and trouble free operation with high shaking speed up to 300rpm even when both layers are fully loaded.
- ▶ UV light reduces the air burden, keeping the chamber contamination free.
- ▶ Quality brushless AC inductive motor supports reliable, quiet and smooth shaking movements up to top speed even when fully loaded with 90 pieces of 250ml flasks (ZWYR-2112B, ZWFR-2112).
- ▶ Non-volatile memory saves settings during a power outage and automatically restarts the unit after power is restored.
- ▶ Audible and visual alarms on over temperature and motor overheating, and automatically cut off the power. Soft start and smooth acceleration when doors are closed after short opens.
- ▶ Dedicated single layer shaking frame is available for the ease of using large flasks.
- ▶ 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.
- ▶ Timer up to 9999 mins under fixed value control mode.
- ▶ Predrilled standard tray included, without clamps.

Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	3000ml	5000ml	Tube Rack S/S	96 Well Plate
ZWYR-2102C	56	56	28	22	18	6*	3*	2*	2*	4	9
ZWYR-2102	104	104	56	44	30	24	7*	6*	4*	8	19
ZWYR-2112B	164	164	90	74	52	36	13*	8*	6*	12	30
ZWFR-2112	164	164	90	76	48	44	12*	8*	6*	12	30

* Applies only when single layer shaking frame is equipped.

* Glass dimensions may reduce max. capacity

Model	ZWYR-2102C	ZWYR-2102	ZWYR-2112B	ZWFR-2112
Control	P.I.D Microprocessor			
Control Mode	Fix Value or Program (up to 9 Segments)			
Control Panel	LCD Touch Screen			
Volume (L)	170	330	580	580
Working Temperature (°C)	5-25			
Shaking Speed (rpm)	30-300			30-240
Stroke (mm)	26		35	1 to 50 Stepless Adjustment
Shaking Mode	Orbital			Reciprocal
Temperature (°C)	4 to 60			
Temperature Accuracy	±0.1°C			
Temperature Uniformity	±1°C @ 37°C			
Timer	1 to 9999 mins			
Tray (mm) (WxD)	496x350	734x458	970x560	940x580
Inner dimensions (mm) (WxDxH)	615x450x640	845x530x765	1105x850x664	1105x850x664
Exterior dimensions (mm) (WxDxH)	720x685x1310	950x755x1445	1430x880x1700	1430x880x1700
Packing dimensions (mm) (WxDxH)	800x720x1490	1020x825x1605	1500x950x1860	1500x950x1860
Net/Gross Weight (kg)	195/238	235/272	456/536	486/562
Power (W)	1000	1050	1600	1600
Electricity	220-240V 50/60 Hz			
Approval	CE, ISO			
Security	Over-temperature Protection, Compressor Overload Protection, Electrical Leakage Protection			
Additional	UV light, Built-in Printer, RS485 COM Kit (Option)			

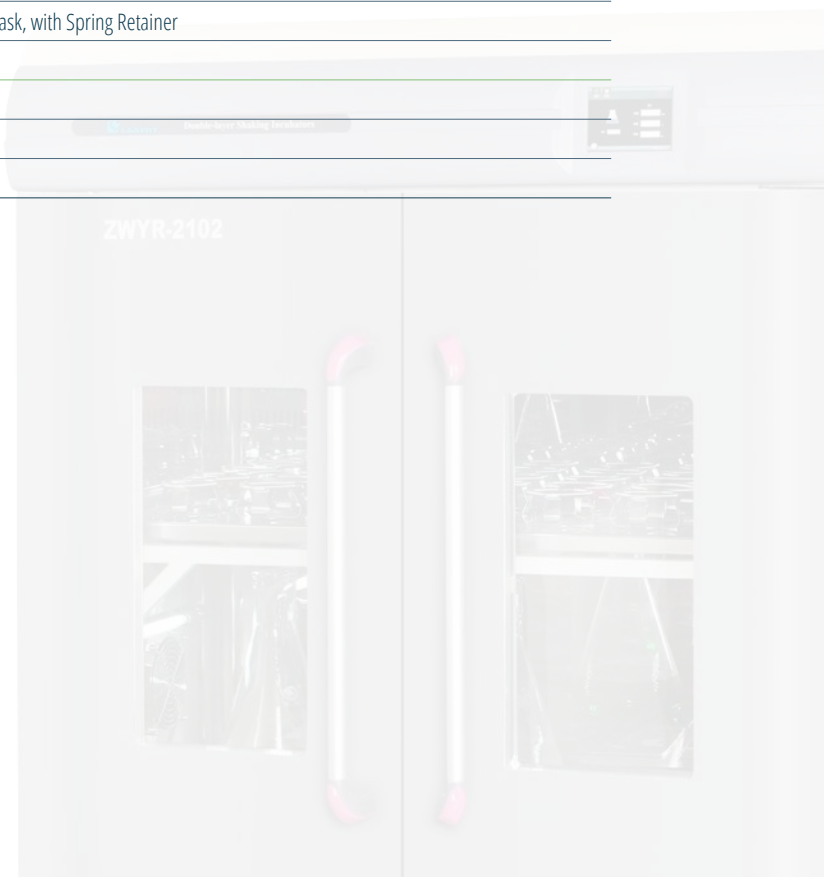
Order Information

ZWYR-2102C	ZWYR-2102C, 170L, Premium Double Layer Shaking Incubator 4-60, 30-300rpm
ZWYR-2102	ZWYR-2102, 330L, Premium Double Layer Shaking Incubator 4-60, 30-300rpm
ZWYR-2112B	ZWYR-2112B, 580L, Premium Double Layer Shaking Incubator 4-60, 30-300rpm
ZWFR-2112	ZWFR-2112, 580L, Premium Reciprocal Double Layer Shaking Incubator 4-60, 30-240rpm

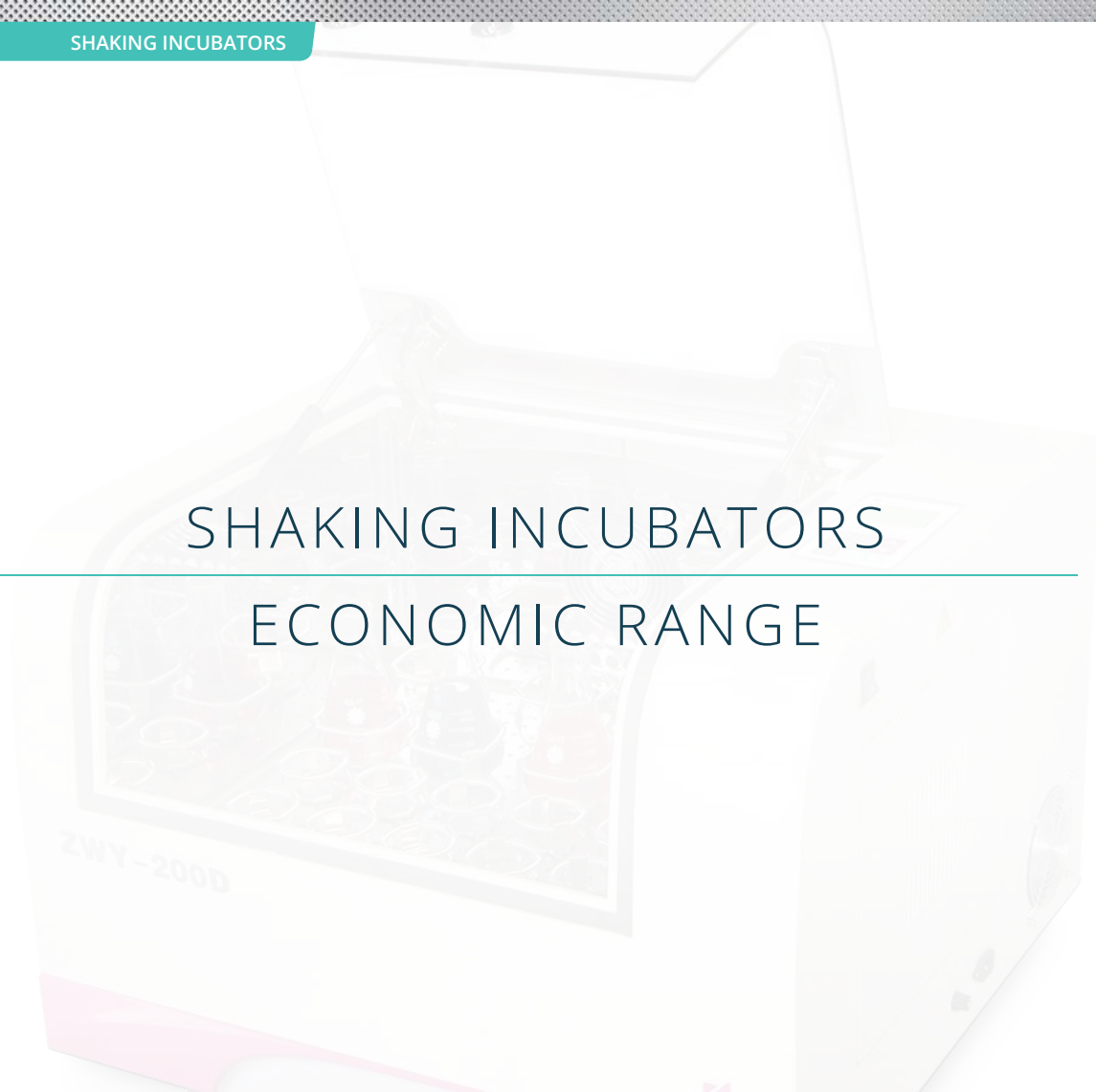


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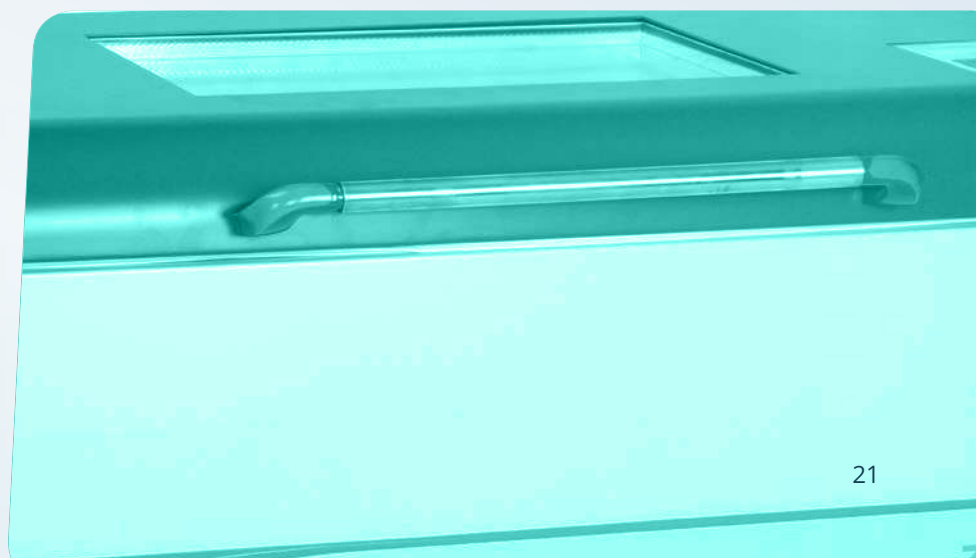
P5001	Single Layer Shaking Frame for ZWY-1102C/2102C, ZWYR-2102C, Stl S/C
P5002	Single Layer Shaking Frame for ZWY-1102/2102, ZWYR-2102C, Stl S/C
P5003	Single Layer Shaking Frame for ZWY-1112B/2112B, ZWYR-2112B, Stl S/C
P6010	Tray for ZWY-1102C/2102C/ZWYR-2102C, S/S *
P6011	Tray for ZWY-1102/2102/ZWYR-2102, S/S
P6012	Tray for ZWY-1112B/2112B/ZWYR-2112B, S/S
P6013	Tray for ZWF-1112/2112/ZWFR-2112, S/S
P7011	Universal Tray for ZWY-1102C/2102C/ZWYR-2102C
P7012	Universal Tray for ZWY-1102/2102/ZWYR-2102, Ful Pcs
P7013	Universal Tray for ZWY-1112B/2112B/ZWYR-2112B, Ful Pcs
P7014	Universal Tray for ZWF-1112/2112/ZWFR-2112, Ful Pcs
P7023	Universal Tray for All Double Layer Model, 1/2 Pcs
	* S/S: Stainless Steel
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8007	T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P8008	T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P8009	T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well MicroPlate, S/S
P8017	Sticky Mat, 20 x 20cm



SHAKING INCUBATORS ECONOMIC RANGE



As the classic version of Labwit shaking incubators, the economic models have been tested and renowned for its quality and the reliable performances in the last decades. Labwit continues to offer the diversity to its shaking incubator range by providing the solutions for basic daily applications. The robust eccentric counterbalanced shaking mechanisms together with quality heavy duty motors ensure quiet and smooth shaking movement throughout the whole speed range. P.I.D microprocessor controller creates optimum, reproducible incubation conditions for cell cultures of the applications.





ZWY-103B



ZWY-240

ZWY-100H



ECONOMIC BENCHTOP Shaking Incubators

The benchtop orbital shaking incubators provided by LABWIT offer for small to medium capacity conditions of time, temperature and orbital agitation for the growth of biological organisms. These microprocessor controlled shakers have a number of advanced features that are really unique in bench top models, such as cooling capacity, stepless shaking diameter adjustment.

LABWIT shaking incubators are lab workhorses and provide “set and forget” programmable operating conditions and precise temperature performance for a variety of molecular biology techniques. The inner chamber is clearly visible from all angles across the room. The audible and visual alarms will alert the operator for set point deviations. The refrigerated models use CFC-free refrigerant, ozone layer friendly.

- ▶ Various chamber sizes available from 34L, 63L to 69L
- ▶ Smooth and easy to clean design with tempered observation glass window.
- ▶ Inner chamber and tray from electro polished stainless steel.
- ▶ Special low noise induction motor system enables high rotation speed up to 400rpm or 600rpm.
- ▶ Patented driver system allows stroke continuous adjustment from 1 to 50 mm.
- ▶ The combination of high speed and small diameter make ZWY-103D, ZWY-100D & ZWY-200D suitable for many applications involving microtitre plates.
- ▶ AC inductive motor, brushless and maintenance free.
- ▶ Microprocessor control with large LCD screen, showing set and actual parameters.
- ▶ Password protection against unauthorized change of parameters.
- ▶ Audible and visual alarms on over temperature and motor overheating.
- ▶ Soft start and smooth acceleration after lid opening.
- ▶ Timer up to 500 hours and continuous mode.
- ▶ Predrilled standard tray included, without clamps.

Model	ZWY-103B	ZWY-103D	ZWY- 100H	ZWY- 100D	ZWF-100	ZWF-200	ZWY-240	ZWY-200D
Volume (L)	34	34	63	63	63	69	69	69
Shaking Speed (rpm)	30-400	30-600	30-400	30-600	30-240	30-240	30-400	30-600
Stroke	Ø24,32,38,50	Ø1-50mm Stepless Adjustment			40mm		Ø1-50mm Stepless Adjustment	
Shaking Mode	Orbital				Reciprocal		Orbital	
Tray (mm) (WxD)	280x220	280x220	340x370	340x370	346x400	435x420	400x370	400x370
Temperature Range	A+ 5 °C - 60°C					4°C to 60°C		
Temperature Accuracy	± 0.1°C							
Temperature Uniformity	≤ ± 1°C@37°C							
Timer	1 minute to 500 hours							
Flask Configurations	*Glass dimensions may reduce max. capacity							
50 ml	9	9	18	18	18	25	23	23
100 ml	9	9	18	18	18	25	23	23
250 ml	5	5	10	10	10	15	12	12
500 ml	-	-	9	9	9	10	9	9
750 ml	-	-	5	5	6	9	7	7
1000 ml	-	-	4	4	5	5	5	5
Tube Rack S/S	-	-	3	3	3	3	3	3
96 Well Plate	4	4	4	4	4	8	8	8
Inner Dimensions (mm) (WxDxH)	340x300x175		410x440x295			490x470x320		
Exterior Dimensions (mm) (WxDxH)	440x410x400		600x580x520			730x740x560		
Packing Dimensions (mm) (WxDxH)	530x520x560		680x690x700			800x810x720		
Net / Gross Weight (kg)	43/54	43/54	72/94	72/94	72/94	100/132	100/132	100/132
Power (W)	280	280	550	550	550	700	700	700
Electricity	220-240V 50/60 Hz							
Approval	CE, ISO							

Order Information

ZWY-103B	ZWY-103B, 34L, Economic Orbital Shaking Incubator A+5-60, 30-400rpm
ZWY-103D	ZWY-103D, 34L, Economic Orbital Shaking Incubator A+5-60, 30-600rpm
ZWY-100H	ZWY-100H, 63L, Economic Orbital Shaking Incubator A+5-60, 30-400rpm
ZWY-100D	ZWY-100D, 63L, Economic Orbital Shaking Incubator A+5-60, 30-600rpm
ZWY-240	ZWY-240, 69L, Economic Orbital Shaking Incubator 4-60, 30-400rpm
ZWY-200D	ZWY-200D, 69L, Economic Orbital Shaking Incubator 4-60, 30-600rpm
ZWF-100	ZWF-100, 63L, Economic Reciprocal Shaking Incubator, A+5-60, 30-240rpm
ZWF-200	ZWF-200, 69L, Economic Reciprocal Shaking Incubator, 4+60, 30-240rpm



Order Information

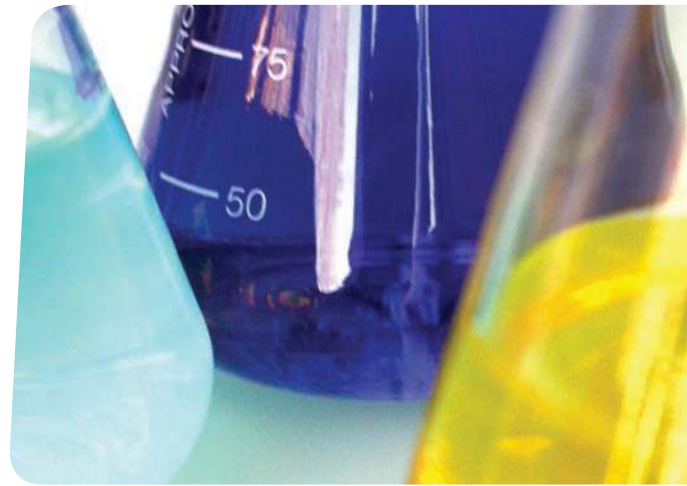
P6001	Tray for ZWY-103B/D, S/S ※
P6002	Tray for ZWY-100H/100D, S/S
P6003	Tray for ZWF-100, S/S
P6004	Tray for ZWYR-240/200D, ZWY-240/200D, S/S*
P6005	Tray for ZWFR-200, ZWF-200, S/S
P7001	Universal Tray for ZWY-103B/103D
P7002	Universal Tray for ZWY-100H/100D
P7003	Universal Tray for ZWYR-240/200D, ZWY-240/200D
P7004	Universal Tray for ZWF-100
P7005	Universal Tray for ZWFR-200, ZWF-200
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well Plate, S/S
P8017	Sticky Mat, 20 x 20cm

※ S/S: Stainless Steel





ZWY-211B



ZWY-211C



ECONOMIC HORIZONTAL Shaking Incubators

These economic horizontal floor shaking incubators are specially developed for the modern biological engineering departments; huge capacity for various sizes of flasks, up to 5L.

LABWIT offers both orbital and reciprocal models, with and without refrigeration to be used in almost all laboratories. All models have large glass viewing windows and gas spring transmission for smooth and convenient lid opening. Temperature uniformity – through a fan driven high velocity circulation system, is $\pm 1.0^{\circ}\text{C}@37^{\circ}\text{C}$, while the temperature accuracy is 0.1°C . All models are equipped with an electronic timer up to 500 hours. Heavy duty triple counterbalanced drive system provides a shaking range that can handle virtually any culturing task.

- ▶ Various chamber sizes available from 170L, 260L to 300L
- ▶ Microprocessor controller with audible and visual alarms maintain precise temperature and speed.
- ▶ CFC-free refrigerant which causes no damage to ozone layer.(Applies on ZWY/F-2XX models)
- ▶ Large double-fold tempered glass window and fluorescent light, provide complete visibility of chamber interior.
- ▶ LCD display presents all actual and preset parameters.
- ▶ Electronic timer, from 0 – 500 hours, automatic stop, audio/ visual alarm.
- ▶ Password protection against unauthorized change of parameters.
- ▶ Audible and visual alarms for motor temperature and set point deviations.
- ▶ Non-volatile memory for set point retention after power interruption.
- ▶ “Long-Life” brushless AC motor creates smooth, quiet and uniformed shaking motion.
- ▶ Mirror-finished high quality #304 stainless steel for excellent durability of interiors.
- ▶ Units delivered with standard stainless steel tray, clamps excluded.
- ▶ High capacity for up to 5L flasks (except ZWY-111B/211B, ZWF-111/211)
- ▶ UV light reduces the air burden, keeping the chamber contamination free.



Model	ZWY-111B		ZWY-211B		ZWY-111C		ZWY-211C		ZWF-111		ZWF- 211	
Volume (L)	170				260				300			
Shaking Mode	Orbital				Orbital				Reciprocal			
Stroke (mm)	Ø26				Ø26				Ø1-50mm Stepless Adjustment			
Temperature Range(°C)	A+5 to 60		4 to 60		A+5 to 60		4 to 60		A+5 to 60		4 to 60	
Temperature Accuracy	±0.1°C											
Temperature Uniformity	≤±1°C @ 37°C											
Shaking Speed (rpm)	30-300				30-300				30-240			
Tray Dimension (mm)	920x500				920x500				896x530			
Flask Configuration *	*Glass dimensions may reduce max. capacity											
50ml	64				64				66			
100 ml	64				64				66			
250 ml	40				40				45			
500 ml	28				28				28			
750 ml	23				23				24			
1000 ml	15				15				15			
2000 ml	-				11				11			
3000 ml	-				8				8			
5000 ml	-				6				-			
Tube Rack S/S	10				10				10			
96 Well Plate	28				28				28			
Inner Dimensions (mm) (WxDxH)	975x565x305				975x565x465				975x565x465			
Exterior Dimensions (mm) (WxDxH)	1200x740x820				1230x730x1065				1230x730x1065			
Packing Dimensions (mm) (WxDxH)	1290x840x1000				1300x840x1225				1300x800x1225			
Net/Gross Weight (kg)	159/219		174/233		240/293		255/308		201/242		213/252	
Power (W)	800		1050		950		1150		950		1150	
Electricity	220-240V 50/60 Hz											
Approval	CE, ISO											

Order Information

ZWY-111B	ZWY-111B, 170L, Economic Horizontal Shaking Incubator A+5-60, 30-300rpm
ZWY-211B	ZWY-211B, 170L, Economic Horizontal Shaking Incubator 4-60, 30-300rpm
ZWY-111C	ZWY-111C, 260L, Economic Horizontal Shaking Incubator A+5-60, 30-300rpm
ZWY-211C	ZWY-211C, 260L, Economic Horizontal Shaking Incubator 4-60, 30-300rpm
ZWF-111	ZWF-111, 300L, Economic Reciprocal Horizontal Shaking Incubator A+5-60, 30-240rpm
ZWF-211	ZWF-211, 300L, Economic Reciprocal Horizontal Shaking Incubator 4-60, 30-240rpm

P6006	Tray for ZWY-111B/211B/111C/211C/ZWYR-211C, S/S ※
P6008	Tray for ZWF-111/211/ZWFR-211, S/S
P7007	Universal Tray for ZWY-111B/211B/111C/211C/ZWYR-211C, Ful Pcs
P7009	Universal Tray for ZWF-111/211, ZWFR-211, Full Pcs
P7022	Universal Tray for All Horizontal Model, 1/2 Pcs
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer

P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8007	T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P8008	T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P8009	T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well Micro Plate, S/S
P8017	Sticky Mat, 20 x 20cm

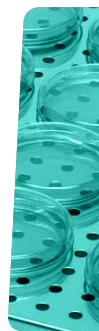
※ S/S: Stainless Steel



ZWY-2112B



ZWY-2102C



ECONOMIC DOUBLE LAYER Shaking Incubators

These LABWIT double layer shaking incubators are specially developed for the modern biological engineering departments; a big capacity of flasks but with small footprint.

These incubators have a smooth compact design. They are very efficient and have an excellent floor space/performance factor. Two trays above each other, double the capacity for smaller flasks, while after removing the top tray, big flasks can also be used on the bottom tray (Shaking frame upgrade required). These unit are particularly ideal for fermentation and pharmacy experiments. While they are also widely used where a big amount of liquid needed to be mixed at with constant temperature.

- ▶ Microprocessor controller with audible and visual alarms maintains precise temperature and speed control.
- ▶ User friendly control panel allows easy digital setting of time, temperature and speed.
- ▶ Large LCD display presents all actual and preset parameters.
- ▶ Electronic timer, from 0 – 500 hours, automatic stop, audio/ visual alarm.
- ▶ Password protection against unauthorized change of parameters.
- ▶ Audible and visual alarms for over-temperature and set point deviations.
- ▶ Non-volatile memory for set point retention after a power interruption.
- ▶ Large double-fold tempered glass window, together with
- fluorescent lights provides complete visibility of chamber interior.
- ▶ “Long-Life” brushless AC motor creates a smooth, quiet and uniformed shaking motion.
- ▶ Mirror-finished high quality #304 stainless steel for excellent durability of interiors.
- ▶ Standard shaking frame and standard stainless steel tray included, but without clamps.
- ▶ Vertical double trays for big capacity, though small footprint.
- ▶ Lockable outer door (on ZWY-1112B/2112B. ZWF-1112/2112) protects the materials against unauthorized access at all times.
- ▶ UV light reduces the air burden, keeping the chamber contamination free.

Model	ZWY-1102C	ZWY-2102C	ZWY-1102	ZWY-2102	ZWY-1112B	ZWY-2112B	ZWF-1112	ZWF-2112
Volume (L)	170		330		580		580	
Shaking Mode	Orbital		Orbital		Orbital		Reciprocal	
Temperature (°C)	A +5 to 60	4 to 60	A +5 to 60	4 to 60	A +5 to 60	4 to 60	A +5 to 60	4 to 60
Temperature Accuracy	±0.1°C							
Temp. Uniformity	≤±1°C @ 37°C							
Stroke (mm)	26		26		35		1 to 50 Stepless Adjustment	
Speed (rpm)	30-300		30-300		30-300		30-240	
Tray (mm) (WxD)	496x350		734x458		970x560		940x580	
Capacity	*Glass dimensions may reduce max. capacity							
50 ml	56		104		164		164	
100 ml	56		104		164		164	
250 ml	28		56		90		90	
500 ml	22		44		74		76	
750 ml	18		30		52		48	
1000 ml	6*		24		36		44	
2000 ml	3*		7*		13*		12*	
3000 ml	2*		6*		8*		8*	
5000 ml	2*		4*		6*		6*	
Tube Rack S/S	4		8		12		12	
96 Well Plate	9		19		30		30	
Inner dim. (mm)	615x450x640 (WxDxH)		845x530x765 (WxDxH)		1105x850x664 (WxDxH)		1105x850x664 (WxDxH)	
Exterior dim. (mm)	720x685x1310 (WxDxH)		950x755x1445 (WxDxH)		1430x880x1700 (WxDxH)		1430x880x1700 (WxDxH)	
Packing dim. (mm)	800x720x149 (WxDxH)		1020x825x1605 (WxDxH)		1500x950x1860 (WxDxH)		1500x950x1860 (WxDxH)	
Net/Gross Weight (kg)	180/223	195/238	225/265	235/272	425/505	456/536	455/535	486/562
Power (W)	1000	1250	1050	1300	1600	1950	1600	1950
Electricity	220-240V 50/60 Hz							
Approval	CE, ISO							

* Applies only when single layer shaking frame is equipped.

ZWY-1102C	ZWY-1102C, 170L, Economic Double Layer Shaking Incubator A+5-60, 30-300rpm
ZWY-2102C	ZWY-2102C, 170L, Economic Double Layer Shaking Incubator 4-60, 30-300rpm
ZWY-1102	ZWY-1102, 330L, Economic Double Layer Shaking Incubator A+5-60, 30-300rpm
ZWY-2102	ZWY-2102, 330L, Economic Double Layer Shaking Incubator 4-60, 30-300rpm
ZWY-1112B	ZWY-1112B, 580L, Economic Double Layer Shaking Incubator A+5-60, 30-300rpm
ZWY-2112B	ZWY-2112B, 580L, Economic Double Layer Shaking Incubator 4-60, 30-300rpm
ZWF-1112	ZWF-1112, 580L, Economic Reciprocal Double Layer Shaking Incubator A+5-60, 30-240rpm
ZWF-2112	ZWF-2112, 580L, Economic Reciprocal Double Layer Shaking Incubator 4-60, 30-240rpm

P5001	Frame for ZWY-1102C/2102C, ZWYR-2102C, Std S/C #
P5002	Frame for ZWY-1102/2102, ZWYR-2102, S/C
P5003	Frame for ZWY-1112B/2112B, ZWYR-2112B, Std S/C
P6010	Tray for ZWY-1102C/2102C, ZWYR-2102C, S/S *
P6011	Tray for ZWY-1102/2102, ZWYR-2102, S/S
P6012	Tray for ZWY-1112B/2112B, ZWYR-2112B, S/S
P6013	Tray for ZWF-1112/2112, ZWFR-2112, S/S
P7011	Universal Tray for ZWY-1102C/2102C, ZWYR-2102C
P7012	Universal Tray for ZWY-1102/2102, ZWYR-2102, Ful Pcs
P7013	Universal Tray for ZWY-1112B/2112B, ZWYR-2112B, Ful Pcs
P7014	Universal Tray for ZWF-1112/2112, ZWFR-2112, Ful Pcs
P7023	Universal Tray for All Double Layer Model, 1/2 Pcs
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer

P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8007	T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P8008	T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P8009	T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well MicroPlate, S/S
P8017	Sticky Mat, 20 x 20cm

Std S/C: Spray Coated Steel, * S/S: Stainless Steel