



## Premium Double Layer Shaking Incubators



**ZWYR-2102C**



**ZWYR-2112B**

### 👉 Descriptions:

These new double layer shaking incubators are specially developed for the modern biological engineering departments; the units are widely used in germ culture, hybridization, biochemical research, enzyme and cellular tissues. All of these tests require high temperature performance and stable oscillation frequency.

These incubators have a smooth compact design, which are very efficient and have an excellent floor space/performance factor. Two trays above each other, doubles the capacity for smaller flasks, while after removing the top tray (Shaking frame upgrade required), big flasks can also be used.

As a unique advantage of this new version product, users can now also perform more complex operations, such as multiple (up to 9 segments, 99 cycles) temperature “ramp and soaks”, and multi-speed controls as well as one constant temperature and speed control. Moreover, together with the introduction of large TFT touch screen, this unique unit can assist you finish all complicated program settings just with quick finger tips. As standard, the built-in thermo printer can provide a complete list of performance record accordingly even when operators are not onsite.

### 👉 Features:

- ◆ 4.3"/5.6" LCD touch screen panel clearly indicates all parameters in one page display.
- ◆ Unit can be programmed to operate with 9 segments for temperature and shaking speed.
- ◆ Electronic timer, from 1-9999 minutes under fixed value control mode, automatic stop, audio/ visual alarm.
- ◆ Audible and visual alarms against over temperature and motor overheating, and automatically cut off the power.
- ◆ Non- volatile memory for set point retention after 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.
- ◆ Soft start and smooth acceleration when door is closed after short opens.
- ◆ Mirror-finished high quality #304 stainless steel for excellent durability of interiors.
- ◆ Standard shaking frame and stainless steel tray included, (without clamps), and built-in printer.

\*Glass dimensions may reduce max. capacity

Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	3000ml	5000ml
<b>ZWYR-2102C</b>	56	56	28	22	18	-	-	-	-
<b>ZWYR-2102</b>	104	104	56	44	30	24	-	-	-
<b>ZWYR-2112B</b>	164	164	90	74	52	36	-	-	-
<b>ZWFR-2112</b>	164	164	90	76	48	44	-	-	-

## Specifications:

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
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)	615x440x640	845x515x765	1105x665x775	1105x665x775
Exterior dimensions (mm) (WxDxH)	720x630x1275	950x710x1370	1430x800x1660	1430x800x1660
Packing dimensions (mm) (WxDxH)	840x750x1445	1070x830x1540	1550x920x1830	1550x920x1830
Net/Gross Weight (kg)	150/175	165/190	225/265	239/272
Power (W)	1000	1050	1600	1600
Electricity	220-240V 50/60 Hz			
Approval	CE, ISO			
Shortcut Settings	Control Mode, Constant Temperature, Cooling Switch, Power-off Recovery Switch, Door			
Security	Over-temperature Protection, Compressor Overload Protection, Electrical Leakage			
Additional	Built-in Printer, RS485 COM Kit (Option)			

## Order Information:

<b>ZWYR-2102C</b>	ZWYR-2102C, 170L, Pre Double Layer Shaking Incubator 4-60, 30-300rpm
<b>ZWYR-2102</b>	ZWYR-2102, 330L, Pre Double Layer Shaking Incubator 4-60, 30-300rpm
<b>ZWYR-2112B</b>	ZWYR-2112B, 580L, Pre Double Layer Shaking Incubator 4-60, 30-300rpm
<b>ZWFR-2112</b>	ZWFR-2112, 580L, Pre Reciprocal Double Layer Shaking Incubator 4-60, 30-300rpm

<b>P5001</b>	Frame for ZWY-1102C/2102C/ZWYR-2102C, Stl S/C #	<b>P8001</b>	T Clamp, S/S, for 50ml Flask, with Spring Retainer
<b>P5002</b>	Frame for ZWY-1102/2102/ZWYR-2102, S/C	<b>P8002</b>	T Clamp, S/S, for 100ml Flask, with Spring Retainer
<b>P5003</b>	Frame for ZWY-1112B/2112B/ZWYR-2112B, Stl S/C	<b>P8013</b>	T Clamp, S/S, for 150ml Flask, with Spring Retainer
<b>P6010</b>	Tray for ZWY-1102C/2102C/ZWYR-2102C, S/S※	<b>P8003</b>	T Clamp, S/S, for 250ml Flask, with Spring Retainer
<b>P6011</b>	Tray for ZWY-1102/2102/ZWYR-2102, S/S	<b>P8014</b>	T Clamp, S/S, for 300ml Flask, with Spring Retainer
<b>P6012</b>	Tray for ZWY-1112B/2112B/ZWYR-2112B, S/S	<b>P8004</b>	T Clamp, S/S, for 500ml Flask, with Spring Retainer
<b>P6013</b>	Tray for ZWF-1112/2112/ZWFR-2112, S/S	<b>P8005</b>	T Clamp, S/S, for 750ml Flask, with Spring Retainer
<b>P7011</b>	Universal Tray for ZWY-1102C/2102C/ZWYR-2102C	<b>P8006</b>	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
<b>P7012</b>	Universal Tray for ZWY-1102/2102/ZWYR-2102, Ful Pcs	<b>P8007</b>	T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
<b>P7013</b>	Universal Tray for ZWY-1112B/2112B/ZWYR-2112B, Ful Pcs	<b>P8008</b>	T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
<b>P7014</b>	Universal Tray for ZWF-1112/2112/ZWFR-2112, Ful Pcs	<b>P8009</b>	T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
<b>P7023</b>	Universal Tray for All Dbl Lyr Model, 1/2 Pcs	<b>P8010</b>	Tube Rack S/S
# Stl S/C: Spray Coated Steel		<b>P8011</b>	Tube Rack ABS Plastic
		<b>P8012</b>	Clamp for 96 Well MicroPlate, S/S
※ S/S: Stainless Steel			