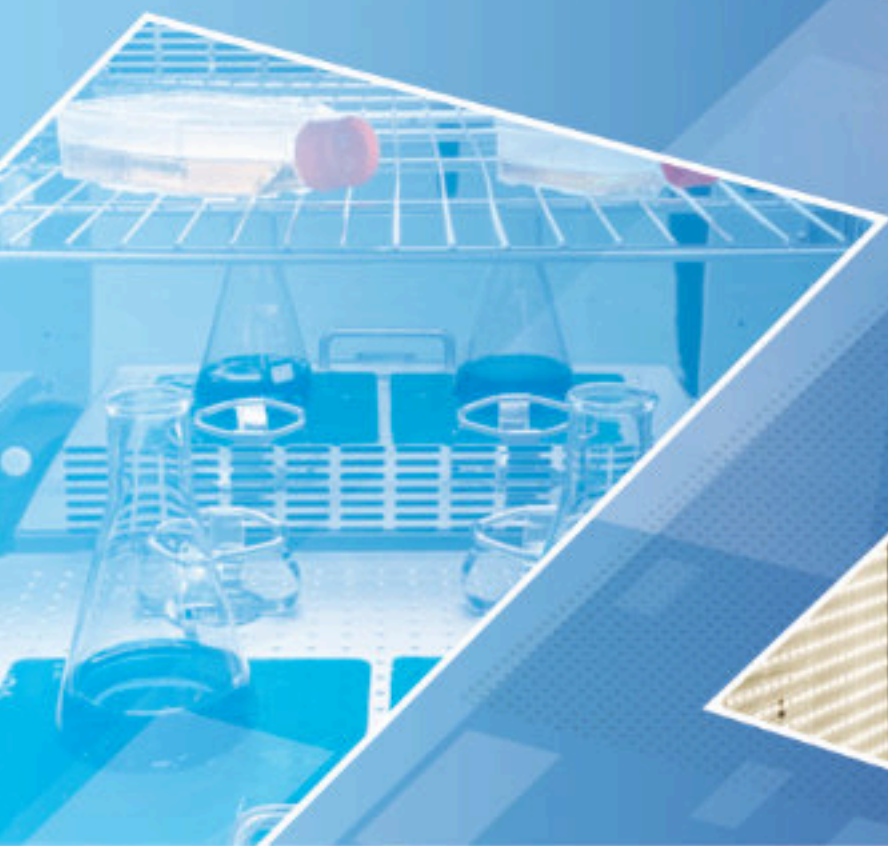




ADVANCED SOLUTIONS **FOR SCIENTIFIC DISCOVERY**

Product Catalogue Version 7



LABWIT is a premium provider of scientific laboratory instruments, specialising in shaking incubators, orbital shakers, incubators, ovens, laminar flow cabinets, and a wide range of advanced laboratory equipment. With over 25 years of experience in research and development, we are committed to advancing scientific discovery through innovative instrumentation and uncompromising quality for both the life sciences and industrial sectors.

Driven by a relentless pursuit of excellence, we focus on meeting the evolving and diverse needs of our customers. It is this dedication to continuous innovation and customer-centric solutions that distinguishes LABWIT in the global marketplace.

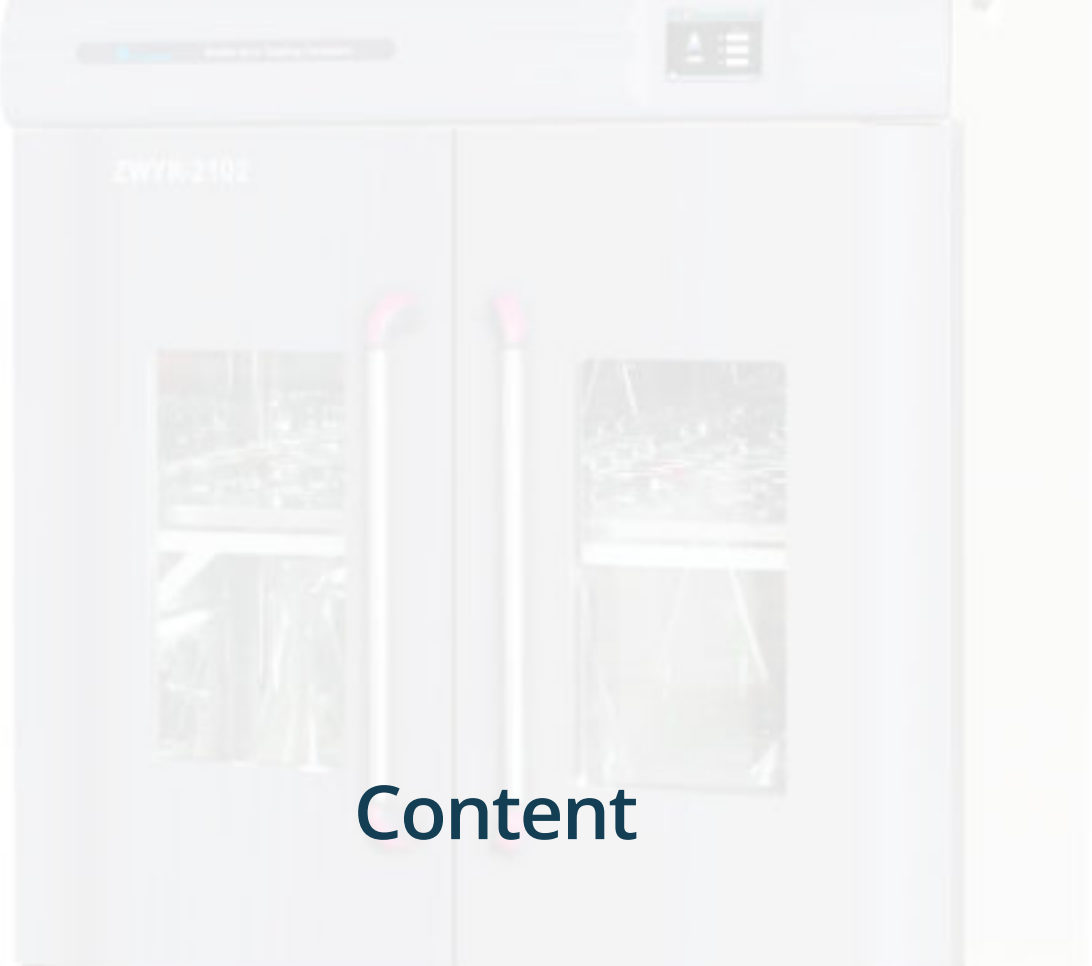
In this catalogue, we are proud to introduce our latest innovation: the Ultra-Compact Stackable Shaking Incubator. Designed with flexibility in mind, this groundbreaking model accommodates both traditional shaking incubation for flasks and tubes, and high-throughput microbial screening using 96-well plates. Equipped with our newly developed ø3mm Orbit shaking mechanism, this unit redefines cell culture capabilities by aligning with the growing demands for automation, precision, and reproducibility in laboratory workflows.

Researchers benefit from precise control over temperature, shaking speed, humidity, CO₂ levels, and LED light exposure empowering them to conduct complex experiments with consistency and confidence.

All LABWIT products are developed, manufactured, and marketed in compliance with ISO 9001:2015 standards. Every process—from product design to after-sales support—is governed by rigorous, traceable quality assurance protocols. As a result, we maintain a quality-driven culture that is fully committed to customer satisfaction. Our electrical products conform to the latest international safety standards, including CE requirements.

LABWIT products are available worldwide through our extensive network of qualified distributors, who also provide expert technical support and product guidance. Our mission is to deliver high-performance laboratory equipment—for you, for every lab, and for better scientific results.





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SHAKING INCUBATORS



LABWIT shaking incubator stands out as innovative, intuitive, and dependable equipment within its segment. Equipped with state-of-the-art microprocessor detection, setting, and PID control for precise temperature and shaking speed regulation, our shaking incubators set the standard for reliability. With additional LED photosynthetic lighting, CO₂ and humidification control options, LABWIT provides comprehensive solutions for all laboratory shaking incubation requirements. Our units are classified into four ranges, ranging from benchtop and horizontal to double-layer and stackable models.

Accuracy

Characterised by their exceptional accuracy, LABWIT shaking incubators deliver precise and reliable results for researchers. Equipped with state-of-the-art microprocessor detection and PID control technology, our shaking incubators maintain precise temperature and shaking speed settings, minimising variability and ensuring reproducibility in experiments of cell culture, microbial screening, or other shaking incubation processes.

Uniformity

Utilising advanced engineering and precision control mechanisms, such as 3D forced air circulations, our shaking incubators provide exceptional uniformity throughout the incubation chamber, ensuring consistent conditions for all samples. This uniformity eliminates temperature and humidity gradients ensuring that each sample experiences the same conditions, minimising experimental variability and enhancing reproducibility.

Reliability

Renowned for their unmatched reliability, LABWIT shaking incubators are committed to offering researchers with consistent and dependable performance even being left on for a long time. Built with durable materials and comprehensive alarm systems, our shaking incubators are designed to withstand rigorous laboratory use without compromising functionality.



ZWYC-290A

ZWYC-290A
Double Stack

ULTIMATE-CELL STACKABLE Shaking Incubator

Thanks to the ongoing development of both technology and functionality requirements from our industry, LABWIT has been thriving to innovate and is now able to offer our latest and comprehensive solution for microbial, mammalian and plant cell incubation needs, the inspiring ZWYC-290A Ultimate-Cell Stackable Shaking Incubator.

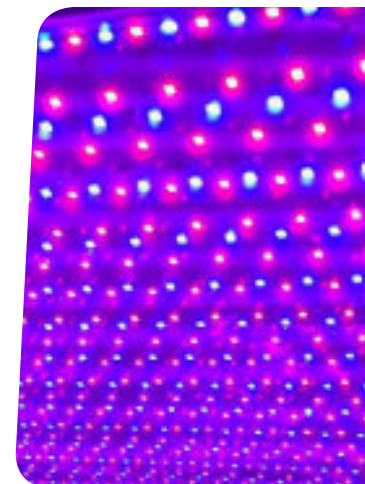
The spaces in the labs are spacious and expensive, The ZWYC-290A can be stacked up to 2-3 units high to offer multiplied incubation capacity on a single unit footprint. Stacking also can be easily managed at a later time. Each compartment unit operates independently with cooling as standard, and can be upgraded with modular controlling options of LED photosynthetic lighting control, active humidity control and CO₂ concentration controls.

Intuitive Touch Screen Panel

Integrated: Comprehensive information available at fingertips. The screen panel clearly indicates all basic operational parameters, such as temperature, speed and timer; as well as the optional parameters, for example, humidity level, and CO₂ concentration just in one page.

User friendly: Graphic user interface, easy to operate with icons and prompts, which makes it easy change the operating parameters settings, even those multi set points under programmable mode intuitively.

Intelligent: Self diagnostic alarm system monitors all functions and parameters and prompts in case of errors, which are clearly indicated in the touch screen panel.



Multi Balanced Driving System

Innovated multi balanced driving system ensures smooth and reliable orbital shaking movement with a speed between 30-300rpm, even when there is imbalanced or maximum loading on the shaking platform. To achieve the maximised flexibility for all applications requiring optimised oxygen transfer rate, the shaking diameter can be steplessly adjusted from 1-50mm. Long life brushless motor provides consistent and no vibration shaking motion, maintenance free and low heat emissions.



Direct Injection Humidification System

Humidity is important for long term cell cultivations with flasks as well as when micro plates are used. Active controlled humidification system can effectively reduce evaporation during cultivation, hence, preventing the samples from drying out.

The humidification system of Ultimate-Cell features 140°C steam direct injection into the chamber and active PID control with world class humidity sensor for utmost accuracy of measurement. Clear curtain prevents humidity losses during door opening.

Extended Chamber Capacity

The chamber is one of the biggest of its range and can take up to 32 pieces of 500ml Erlenmeyer flasks while the plain shaking tray (#P6023) and sticky mats are used.



Moreover, the traditional predrilled shaking tray (#P6022) with dedicated holes for fixing flask clamps is also available. With extended effective inner height as 425mm, the unit chamber is always compatible with 5000ml flasks even when the photosynthetic LED lighting is equipped. The maximum capacity for various Erlenmeyer flask clamps is shown in the table below.

Excellent Temperature Controlling System



New solid polyurethane casing optimises the insulation of the chamber, together with the sound air circulation system and PID controller ensures evenly distributed air flow as well as accurate and uniformed temperature control across the chamber.

Sound cooling system with CFC free refrigerant and automatic defrosting system ensures long term stable operation at as low as 4°C or 15°C lower than ambient.

Microprocessor controller provides unmatched versatility by enabling users to create personalized program (with up to 10 segments with cycles) to automate changes to function parameters.

Advanced CO₂ controlling with Infrared (IR) sensor

The effective controlling of CO₂ concentration is essential for cultivations of mammalian cells and algae. The CO₂ concentration is well maintained between 0-20% to keep the pH value of the solution media at healthy level.

LABWIT incorporates a world class single beam, dual wavelength IR CO₂ sensor, which guarantees superior performance and accuracy to the situations where temperature and humidity fluctuate rapidly, such as when the door is opened frequently.

Photosynthetic LED Lighting

Ultimate-Cell can be equipped with LED lighting panel for the cultivation of those phototrophic organisms, such as plant culture, algae, etc. Light panels available in warm white and blue & red, with light intensity up to 300μmol/(m²*s). Even light distributions over the shaking tray. Easy programmable for day and night simulations. With height of 10mm, the light panel minimises the impact on the usable internal height above the shaking tray.

Flask (ml)	P8021 50ml	P8022 100ml	P8023 250ml	P8024 500ml	P8026 1000ml	P8027 2000ml	P8028 3000ml	P8029 5000ml	P8012 96 Well Plate	P8010 Tube Rack
P6023 Tray	98	72	50	32	18	11	8	6	24	8
P6022 Tray	91	70	40	26	15	11	8	5	19	8

Contamination Control

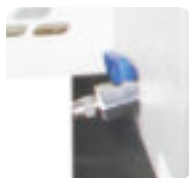


UV Sterilisation

The UV sterilisation system is isolated from the samples, sterilises chamber air in the back chamber wall to maintain contamination-free conditions within the chamber.

Easy Cleaning Chamber

The chamber bottom is designed to catch and drain excess water and liquid spills in case of flask breaks through an outlet on the side.



Machine	
Outside (WxDxH)	1320 x 870 x 590mm (Side Cooling)*
Inside (WxDxH)	940 x 570 x 480mm
Volume	257L
Net/Gross Weight (with Cooling)	200kg
Control Panel	TFT Touch Screen
Illumination	2 x Halogen lights
Operation Menu in	English
Ambient Temperature	10-35°C
UV Light	≥400 mW/m ²
Noise Level	<70 dB (1m above floor)
Power	1150W
Electricity	220-240V, 50/60Hz

Temperature	
Control Mode	Fixed Value & Program
Temp. Range	Ambient - 15°C to 60°C (Min.4°C) #
Temp. Accuracy	±0.1°C
Temp. Uniformity	±0.2°C @ 37°C
Principle of Sensor	PT100
Air Circulation	360m ³ /Hour
Recovery (@37°C)	10 mins (30 Seconds Door Opening)

Humidity	
Part Number	P5013-P
Humidity Range	40-80%RH, at 25-55°C
Humidity Accuracy	1% RH
Humidity Uniformity	±3%RH
Principle of Sensor	Capacitive
System	Direct Steam Injection
Humidifier Power	400W
Recovery (@70%RH)	10 mins (30 Seconds Door Opening)

* Or without side cooling compartment, 1080*870*590mm

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

Password Door Lock System

Password screen prevents unauthorised changes of operational parameters as well as access to the valuable samples during long terms cultivation, enhancing the safety and reliability of the applications.

Data Logging

The units are equipped with USB Port as standard, so that operators could save all the operational parameters to the portable USB drive. The controller can save over 7,000 records of operation data internally when USB drive is not connected.

Options: 35cm & 50cm base stand, black filmed window.

Complete Protection For Cell Culture

Designed with advanced features to ensure reliable performance and sample safety, giving you peace of mind.

- Automatic stop shaking motion, circulation fan and heating when the door is opened, minimising the impact on the chamber environment, as well as the safety of operators.
- Comprehensive alarms against door ajar, and sensor failures.
- Over-current and leakage protection.
- Non-volatile memory guarantees data integrity in the event of power interruption.
- Audible and visual alarm when parameter deviates from the set point.
- Independent temperature limit protection against over temperature.

Shaking Unit	
Drive Type	Multi Balanced Driving System
Tray Size	850 x 450mm
Maximum Load	25 kg
Speed Range	30-300rpm
Speed Accuracy	±1rpm
Timer	0-9999 mins
Shaking Mode	Orbital
Shaking Diameter	Ø1-50mm Stepless Adjustment

CO ₂	
Principle of Sensor	Infrared, NDIR
CO ₂ Range	0-20%
CO ₂ Accuracy	±0.15 @ 5.0%
Temp. Range	25-55°C
CO ₂ Recovery (@5%)	5 mins (30 Seconds Door Opening)

Photosynthetic Lighting		
Part Number	P5011RB	P5011WW
Light Type	LED, 50% Red, 50% Blue	LED, 100% Warm White
Spectrum	Red: 640-660nm, Blue: 430-450nm	4000k:400-700nm
Light Intensity	Up to 400µmol/(m ² *s)	Up to 300µmol/(m ² *s)
Control	Yes, Individually, from 0-100% output	Yes, from 0-100% output
Control Mode	Fixed Value & Programmable	
Dimensions (WxDxH)	890 x 500 x 10mm	
Power	300W	

Other Features

- Internal chamber equipped with two halogen lighting ensure complete visibility, activated both automatically by door opening, and pressing a button/switch.
- Fully insulated chamber and door with double folded glass window optimise the energy efficiency.
- 2pcs of Ø50mm access ports.
- One piece of (P6022) predrilled shaking tray included as standard, clamps excluded.
- Base Options: 35cm cabinet base stand; 50cm Frame base stand.
- Sliding out shaking tray for easy loading of flasks and bottles.

Order Information

ZWYC-290A	ZWYC-290A, 257L x 1, Ultimate-Cell Stackable Shaking Incubator, 4°C - 60°C, 30-300rpm
P5011WW	LED Lighting Panel, for ZWYR-D2401/D2402/D2403, ZWYC-290A, Warm White
P5011RB	LED Lighting Panel, for ZWYR-D2401/D2402/D2403, ZWYC-290A, Red & Blue
P5012-35	Cabinet Base Stand for ZWYC-290A, H35cm
P5012-50	Frame Base Stand for ZWYC-290A, H50cm
P5013	Direct Steam Humidification Kit for ZWYC-290A
P5013-P	Passive Humidification & Monitoring System for ZWYC-290A
P5014	IR CO ₂ Kit for ZWYC-290A
P5016	RS-485 Interface
P5029	Static Perforated Shelf for ZWYC-290A, H15cm
P6022	Tray for ZWYC-290A, Predrilled
P6023	Tray for ZWYC-290A, Plain
P7024	Universal Spring Pallet for ZWYC-290A
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
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
P8028	O Clamp, S/S, for 3000ml Flask, with Spring Retainer
P8029	O Clamp, S/S, for 5000ml Flask, with Spring Retainer
P8032	O Clamp, S/S, for 96 Well Plate

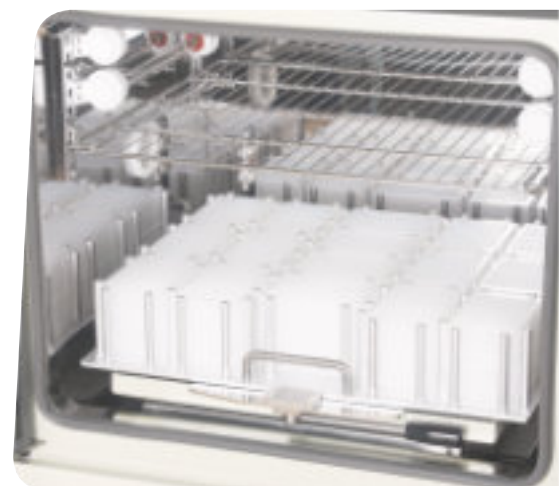
* S/S: Stainless Steel



P5029



ZWYC-290A with P5012-35



ZWYC-293G

ULTRA COMPACT STACKABLE Shaking Incubator

The Ultra ZWYC-293G offers comprehensive solutions for shaking cultivations on small foot print, including active humidity and CO₂ control technology, offering exceptional flexibility, allowing for traditional shaking incubations with flasks and tubes, as well as micro-volume high-throughput microbial screening with 96-well plates. Compact size for all-round applications, optimised controlling for reliability and procession, secured protections for precious samples, ZWYC-293G looks after all you care the most shaking incubations for microbial, mammalian, and plant cell cultures.

Features

Intuitive Operation with Smart Controller

The new version features 7.0" large touch screen with resolution (800x480 Pixels) and brightness (250nit), making experiment programming and monitoring even more effortless.



Customize operational parameters and track real-time parameter, all at your fingertips, ensuring precise control over your samples' environment. PID microprocessor controller provides precise temperature control accuracy of 0.1°C. Programmable mode enables user to create personalized program to automate changes to multiple segments of different temperature and speeds set points.

Easy Cleaning Chamber and Contamination Control

- The chamber is made of quality stainless steel with rounded corners, easy to clean and durable to use.

- The chamber bottom is designed to catch and drain excess water and liquid spills in case of any breakages through the outlet on the side.

- The UV lights sterilises the chamber with germicidal irradiation to maintain contamination-free conditions. Interlocked with door switch, the UV lights turns off automatically when door is opened to protect user's safety.



Maximised Capacity with Minimised Footprint

Ideal for bench-top and under-bench, but still up to two ZWYC-293G can be stacked for maximised shaking capacity with minimized floor space. Each unit runs independently. There is no special tools or kits necessary for stacking operation. Compatible to stack with former Premium Compact ZWYR-293.

Direct Beltless Driving System

Direct belt-less driving system together with brushless DC motor provides quiet and vibration free shaking motion even when unit is operating at top speed with maximum workload.

Flexible Shaking Diameter Options:

Ø1-50mm Stepless Adjustable (Standard): Allowing to handle an extensive range of sample types and sizes, tailor the shaking conditions to your exact specifications, from small vials to large flasks or multi-well plates, from gentle swirling to vigorous agitation from 30-300rpm.

Ø3mm for Microplates (Option): Featuring optimal mixing of contents in microplates and deep well plates up to 1200rpm, achieving efficient oxygenation in each of the wells.

This model revolutionises cell culture technology by aligning with the trends of automation and high precision in handling and analytical work through high-throughput microbial screening.



Stepless Adjustable Shaking Diameter



Predrilled Tray

Extended Chamber Capacity

- ▶ The predrilled shaking tray is included as standard accessory, clamps are excluded.
- ▶ One piece of static shelf with adjustable positions (10-20cm from ceiling, 5 levels) included as standard, providing extra flexibility for static incubation.
- ▶ Plain shaking tray is also available as option for use together with stick mats (Max. 4 pcs).
- ▶ With internal height above the shaking tray of 415mm to the ceiling, the unit is compatible with 5L flasks even when the photosynthetic LED lighting panel is installed.

Capacity	P8021 50ml	P8022 100ml	P8023 250ml	P8024 500ml	P8026 1000ml	P8027 2000ml	P8028 3000ml	P8029 5000ml	P8012 96 Well Plate	P8010 Tube Rack
Plain Tray	53	42	23	14	9	6	4	2	12	4
Predrilled Tray	48	33	23	14	9	6	4	2	12	4

Photosynthetic LED Lighting

- ▶ The photosynthetic LED lighting panel can be equipped for the cultivation of those phototrophic organisms, such as plant culture, algae, etc.
- ▶ Light panels with light intensity up to $400\mu\text{mol}/(\text{m}^2\cdot\text{s})$ guarantee even light distributions over the shaking tray.
- ▶ Available in Red & Blue, and Warm White.
- ▶ Easy programmable for day and night simulations.
- ▶ With height of 10mm, the light panel minimises the impact on the useable internal height above the shaking tray.



Photosynthetic Lighting (Option)

Advanced CO₂ controlling with Infrared (IR) sensor (Option)

For cultivations of mammalian cells and algae, well maintained CO₂ concentration is crucial to keep the pH value of the solution media at healthy level.

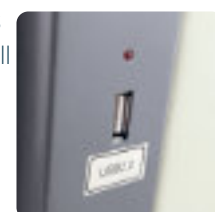
LABWIT incorporates a word class single beam, dual wavelength IR CO₂ sensor, which guarantees superior performance and accuracy under all situations.



Data Logging

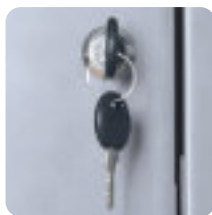
The units are equipped with USB Port as standard, so that operators could save all the operational parameters to the portable USB drive. The controller can save over 7,000 records of operation data internally when USB drive is not connected.

Option: RS-485 interface, Built-in printer, TCP/IP interface.



Complete Protection For Cell Culture

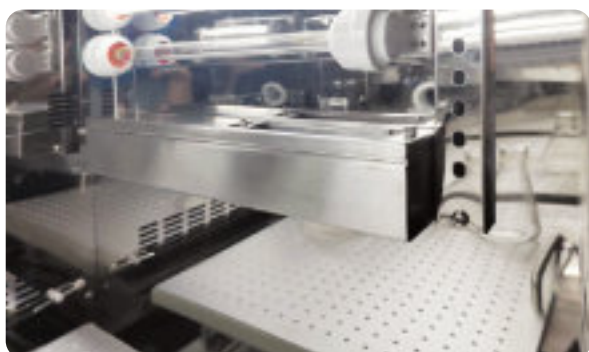
This model has been designed to include many features for the comprehensive of the application and the sample safety, hence providing you with added peace of mind.



- ▶ Password protection before entering the "SET" page, and preventing unauthorised changes of critical settings.
- ▶ Key lock prevents unauthorised access to the valuable samples during cultivations.
- ▶ Automatic stop shaking motion, circulation fan and Heating when the door is opened, minimising the impact on the chamber environment, as well as the safety of operators.
- ▶ Comprehensive alarms against door ajar, and sensor failures.
- ▶ Over-current and leakage protection.
- ▶ Non-volatile memory guarantees data integrity in the event of power interruption.
- ▶ Audible and visual alarm when parameter deviates from the set point.

Passive Humidification & Monitoring System (Option)

The passive humidity system consists of an evaporative water tray for humidification and a humidity display. It works by natural evaporation of water in the tray to increase the chamber's humidity up to 80%RH, simple and low-maintenance. This system provides real-time humidity readings in the screen, suitable for applications where precise humidity regulation is not critical and some fluctuation is acceptable.



Direct Injection Humidification System (Option)

Humidity is important for long term cell cultivations with flasks as well as where micro plates are used. Active controlled humidification system can effectively reduce evaporations during cultivation, hence, preventing the samples from drying out.



The humidification system of Ultra Compact features 140°C steam direct injection into the chamber and active PID control with world class humidity sensor for utmost accuracy of measurement.

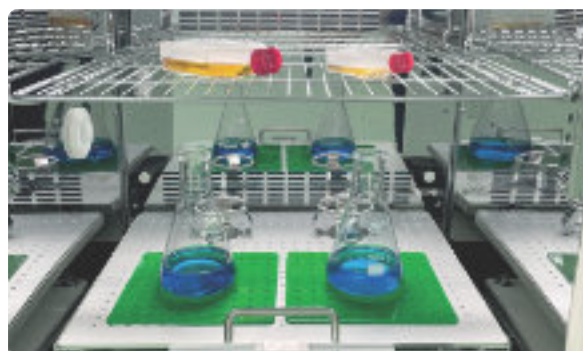
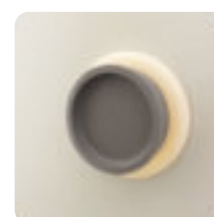


Other Features

- ▶ Internal chamber equipped with lighting ensure complete visibility.
- ▶ Fully insulated chamber and door with double folded glass window optimize the energy efficiency.
- ▶ Temperature upgrade to 80°C available for cultivating thermophiles, conducting enzyme or chemical reactions, performing stress tests, and facilitating high-temperature extractions.
- ▶ H15cm base stand.
- ▶ Ø50mm access port

Options:

- H35cm cabinet base stand (Single unit & Double Stack);
- H50cm frame base stand (Single unit only)
- Black filmed window



	Specifications
	Machine
Outside (WxDxH)	840 x 764 x 625mm
Inside (WxDxH)	570 x 505 x 418mm
Volume	120L
Net / Gross Weight	120/165 kg
Control Panel	7" (800 x 480) TFT Touch Screen
Illumination	LED
Language	English
Ambient Temp.	5°C to 35°C
UV Light	254nm, 8W x 2 Pcs
Noise Level	<55 dB (1m above floor)
Power	765W
Electricity	220-240V, 50/60Hz
Data logging	USB port
Static Shelf	Standard, 1 piece
Base Stand	Standard: H 15cm Options: H 35cm or H 50cm
Key Lock	Yes, standard

	Shaking Unit
Drive Type	Direct Beltless Driving System
Tray Size (WxD)	500 x 400mm
Maximum Load	15kg
Speed Range	30-300 rpm
Speed Accuracy	±1rpm
Timer	0 - 9999 mins
Shaking Mode	Orbital
Shaking Diameter	Ø1-50mm Stepless Adjustment

	Temperature
Control Mode	Fixed Value & Program
Temp. Range	Ambient - 20 to 60°C (Min. 4°C)#
Temp. Accuracy	±0.1°C
Temp. Uniformity	±0.3 @ 37°C
Principle of Sensor	PT100
Air Circulation	360m³/Hour
Recovery (@37°C)	8 mins (30 Seconds Door Opening)
Control Mode	Fixed Value & Program

	Ø3mm Shaking Diameter (Option)
Part Number	P5052
Shaking Speed	100-1200rpm
Shaking Tray	96 Well Plate Tray (P6050)
Tray Size (WxD)	530 x 435mm
Max. Capacity	96 Deep Well Plate: 2x16 pcs



ZWYC-293G Stacked

Humidity (Option)	Direct Injection	Passive Monitoring
Part Number	P5053	P5053-P
Humidity Range	40-80%RH, at 25-55°C	Up to 80%RH
Humidity Accuracy	1%RH	2%RH
Humidity Uniformity	±3%RH	±3%RH
Principle of Sensor	Capacitive	Capacitive
System	Direct Steam Injection	Natural Evaporation

CO₂ (Option)

Part Number	P5054
Principle of Sensor	Infrared, NDIR
CO₂ Range	0-20%
CO₂ Accuracy	±0.15 @ 5.0%
Temp. Range	25-55°C
CO₂ Recovery (@5%)	5 mins (30 Seconds Door Opening)

Photosynthetic Lighting (Option)

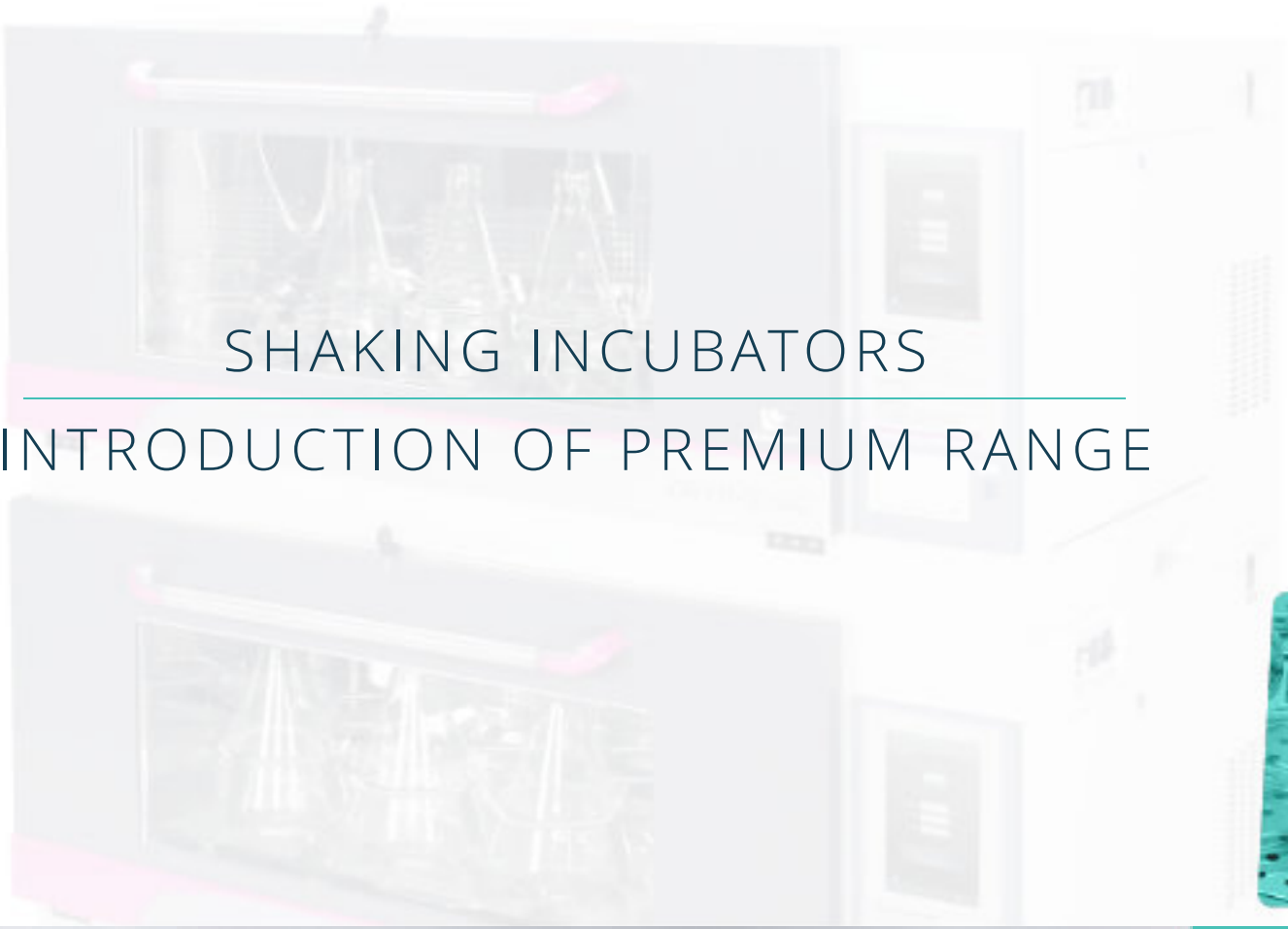
Part Number	P5031RB	P5031WW
Light Type	LED, 50% Red, 50% Blue	LED, 100% Warm White
Spectrum	Red: 640-660nm, Blue: 430-450nm	4000k: 400-700nm
Light Intensity	Up to 350µmol/(m²*s)	Up to 400µmol/(m²*s)
Control	Yes, Individually, from 0-100% output	Yes, from 0-100% output
Power	120W	
Control Mode	Fixed Value & Programmable	
Dimensions (WxDxH)	550 x 430 x 10mm	

Min. 15°C when Photosynthetic Lighting option is applied.

Order Information

ZWYC-293G	ZWYC-293G, 120L, Ultra Compact Shaking Incubator, 4°C - 60°C
P4003	Built-in Printer
P5016	RS-485 Interface
P5031RB	LED Lighting Panel and Control Kit, Red & Blue for ZWYC/R-293
P5031WW	LED Lighting Panel and Control Kit, Warm White for ZWYC/R-293
P5032-35	Cabinet Base Stand for ZWYR-293, ZWYC-293G, 840x710x350mm
P5032-50	Frame Base Stand for ZWYR-293, ZWYC-293G, 840x710x500mm
P5033	TCP/IP interface
P5052	Ø3mm Shaking Diameter for ZWYC-293G, 150-1200rpm, with P6050 x 1
P5053	Direct Steam Humidification Kit for ZWYC-293G
P5053-P	Passive Humidification & Monitoring System for ZWYC-293G
P5054	IR CO ₂ Kit for ZWYC-293G
P6040	Tray for ZWYC/R-293, 500x400mm, Predrilled
P6041	Tray for ZWYC/R-293, 500x400mm, Plain
P6050	96 Well Plate Tray for ZWYC-293G, 530x435mm
P7029	Universal Spring Pallet for: ZWYR-293, ZWYC-293G, 500x400mm
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8017	Sticky Mat, 20 x 20cm
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
P8028	O Clamp, S/S, for 3000ml Flask, with Spring Retainer
P8029	O Clamp, S/S, for 5000ml Flask, with Spring Retainer
P8032	O Clamp, S/S, for 96 Well Plate
P8082	Sticky Mat, 20 x 8cm





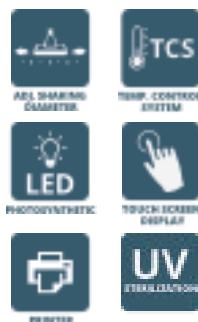
SHAKING INCUBATORS

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 equipment 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.
- ▶ UV light is equipped as standard (Except bench-top models), providing proactive contamination controls when needed.





ZWYR-D2402

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.

ZWYR-D2401
with P5010-35



ZWYR-D2402



ZWYR-D2403
with Upward Door Opening



- ▶ Stackable up to three units for maximum space savings.
- ▶ 7" (800 x 480) TFT touch screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips.
- ▶ Password protection before entering the "SET" page, and preventing unauthorised changes of critical settings.
- ▶ 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 belt-less driving system is both durable and economical, maintenance free, allows extended speed ranges from 30 to 300rpm, ± 1 rpm with minimized vibration, even when shakers are stacked of three high. The shaking diameter can be changed from $\varnothing 1$ -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 colours are possible and the intensity of each colour 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.
- ▶ 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).
- ▶ 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		
Control Panel	LCD Touch Screen		
Air Convection	Forced		
Shaking Mode	Orbit		
Volume/ Compartment	190L x 1	190L x 2 (380L)	190L x 3 (570L)
Ambient Temperature	10°C - 35°C		
Shaking Speed	30-300rpm		
Stroke	Ø1-50mm Stepless Adjustable		
Temperature Range	Ambient - 20°C to 60°C (Min.4°C)#		
Temperature Accuracy	±0.1°C		
Temperature Uniformity	±1°C @ 37°C		
Timer	0 to 9999 mins		
Tray (mm) (WxD)	810x430		
Tray Included	1	2	3
Inner Dimensions (mm) (WxDxH)	920x532x395		
Exterior Dimensions (mm) (WxDxH)	1300x930x735	1300x930x1315	1300x930x1895
Packing Dimensions (mm) (WxDxH)	1390x1000x920	1390x1000x1490	1390x1000x2100
Net/Gross Weight	250/290 kg	450/540 kg	650/750 kg
Power	1200W	2400W (1200W*2)	3600W (1200W*3)
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)		

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

Capacity	P8021 50ml	P8022 100ml	P8023 250ml	P8024 500ml	P8025 750ml	P8026 1000ml	P8027 2000ml	P8010 Tube Rack S/S	P8012 96 Well Plate
ZWYR-D2401	91	67	38	26	15	15	11	8	19
ZWYR-D2402	182	134	76	52	30	30	22	16	38
ZWYR-D2403	273	201	114	78	45	45	33	24	57

Photosynthetic Lighting

Part Number	P5011RB	P5011WW
Light Type	LED, 50% Red, 50% Blue	LED, 100% Warm White
Spectrums	Red: 640-660nm, Blue: 430-450nm	4000K:400-700nm
Light Intensity	Up to 400µmol/(m²*s)	Up to 300µmol/(m²*s)
Control	Yes, Individually, from 0-100% output	Yes, from 0-100% output
Control Mode	Fixed Value & Programmable	
Dimensions	890x500x10mm	
Power	300W	

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

Order Information

ZWYR-D2401	ZWYR-D2401, 190L x 1, Premium Stackable Shaking Incubator, Single, 4°C - 60°C, 30-300rpm
ZWYR-D2402	ZWYR-D2402, 190L x 2, Premium Stackable Shaking Incubator, Double, 4°C - 60°C, 30-300rpm
ZWYR-D2403	ZWYR-D2403, 190L x 3, Premium Stackable Shaking Incubator, Triple, 4°C - 60°C, 30-300rpm
P5010-35	Cabinet Base Stand for ZWYR-D2401/D2402, H35cm
P5010-50	Frame Base Stand for ZWYR-D2401, H50cm
P5011WW	LED Lighting Panel, for ZWYR-D2401/D2402/D2403, ZWYC-290A, Warm White
P5011RB	LED Lighting Panel, for ZWYR-D2401/D2402/D2403, ZWYC-290A, Red & Blue
P5016	RS-485 Interface
P5017	Upward Door Opening for ZWYR-D2401/D2402/D2403
P6024	Predrilled Tray for ZWYR-D2401/2402/2403
P6025	Tray for ZWYR-D2401/2402/2403, Plain
P7004	Universal Spring Pallet for ZWYR-D2401
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
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
P8032	O Clamp, S/S, for 96 Well Plate

※ S/S: Stainless Steel



ZWYR-D2401
with P5010-35



ZWYR-D2401
with P5010-50



ZWYR-D2402



ZWYR-D2403
with P5017



ZWYR-293

PREMIUM COMPACT STACKABLE Shaking Incubators

The new ZWYR-293 represents a significant advancement in research technology, offering a range of new upgrades designed to streamline your experiments and elevate your scientific discoveries. With this cutting-edge instrument, we are confident that you will achieve unparalleled precision, efficiency, and reproducibility in your research endeavours.

Maximised Capacity with Minimized Footprint

Ideal for benchtop and under-bench, but still up to two ZWYR-293 can be stacked for maximised shaking capacity with minimized floor space. Each unit runs independently. There is no special tools or kits necessary for stacking operation.

Intuitive Operation with Smart Controller

7.0" large touch screen with higher resolution (800x480 Pixel) and brightness (250nit), making experiment programming and monitoring even more effortless.

Customize operational parameters and track real-time parameter, all at your fingertips, ensuring precise control over your samples' environment.

Direct Beltless Driving System

Direct beltless driving system together with brushless DC motor provides quiet and vibration free shaking motion, allows extended speed ranges from 30 to 300rpm, ± 1 rpm, even when unit is operating at top speed with maximum workload.

Stepless Adjustable Shaking Diameter

The shaking diameter can be changed from $\varnothing 1$ -50mm, allowing to handle an even more extensive range of sample types and sizes, tailor the shaking conditions to your exact specifications, from small vials to large flasks or multi-well plates, from gentle swirling to vigorous agitation.



Extended Chamber Capacity

- ▶ The predrilled shaking tray (500x400mm) is included as standard accessory, taking up to 9 pcs of 1L Erlenmeyer flasks.
- ▶ One piece of static shelf with adjustable positions (10-20cm from ceiling, 5 levels) included as standard, providing extra flexibility for static incubation
- ▶ Plain shaking tray is also available as option for use together with stick mats (Max. 4pcs).
- ▶ With internal height above the shaking tray of 415mm to the ceiling, the unit is compatible with 5L flasks even when the photosynthetic LED lighting panel is installed.

	P8021 50ml	P8022 100ml	P8023 250ml	P8024 500ml	P8026 1000ml	P8027 2000ml	P8028 3000ml	P8029 5000ml	P8012 96 Well Plate	P8010 Tube Rack
Plain Tray	53	42	23	14	9	6	4	2	12	4
Predrilled Tray	33	33	23	14	9	6	4	2	12	4

Easy Cleaning Chamber and Contamination Control

- ▶ The chamber is made of quality stainless steel, easy to clean and durable to use.
- ▶ The chamber bottom is designed to catch and drain excess water and liquid spills in case of any breakages through the outlet on the side.
- ▶ The UV sterilisation system is isolated from the samples, sterilises chamber air in the back chamber wall to maintain contamination-free conditions within the chamber even when chamber is loaded.

Photosynthetic LED Lighting

The photosynthetic LED lighting panel can be equipped for the cultivation of those phototrophic organisms, such as plant culture, algae, etc. Light panels available in warm white and blue & red, with light intensity up to 400 μ mol/(m²*s). Even light distributions over the shaking tray. Easy programmable for day and night simulations. With height of 10mm, the light panel minimises the impact on the useable internal height above the shaking tray.

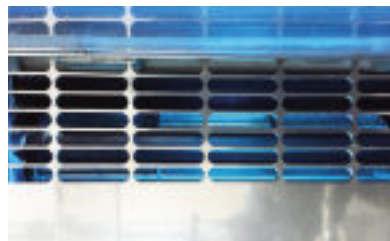
Complete Protection For Cell Culture

This model has been designed to include many features for the comprehensive of the application and the sample safety, hence providing you with added peace of mind.

- ▶ Password protection before entering the "SET" page, and preventing unauthorized changes of critical settings.
- ▶ Key lock prevents unauthorized access to the valuable samples during cultivations.
- ▶ Automatic stop shaking motion, heating and cooling control when the door is opened.
- ▶ Sensor failure, door ajar alarm.
- ▶ Over-current and leakage protection.
- ▶ Non-volatile memory guarantees data integrity in the event of power interruption.
- ▶ Audible and visual alarm when parameter deviates from the set point.

Data Logging

The units are equipped with USB Port as standard, so that operators could save all the operational parameters to a portable USB drive. The controller can save up to 5 days of data internally when USB drive is not connected.
Option: RS-485 interface, Built-in printer, TCP/IP interface.



UV Light



Photosynthetic Lighting (Option)

Other Features

- ▶ Internal chamber equipped with lighting ensure complete visibility.
- ▶ Fully insulated chamber and door with double folded glass window optimise the energy efficiency.
- ▶ Ø50mm access port
- ▶ One piece of predrilled shaking tray included as standard; clamps excluded.

Options:

H35cm cabinet base stand (Single unit & Double Stack)

H50cm frame base stand (Single unit only)

Specifications

	Machine
Outside (WxDxH)	840 x 764 x 625mm
Inside (WxDxH)	570 x 505 x 418mm
Volume	120L
Net/Gross Weight	120/165 kg
Control Panel	7" (800 x 480) TFT Touch Screen
Illumination	LED
Language	English
Ambient Temp.	5°C to 35°C
UV Light	254nm, 11W
Noise Level	<55 dB (1m above floor)
Power	765W
Electricity	220-240V, 50/60Hz
Data logging	USB port
Static Shelf	Standard, 1 piece
Base Stand	Standard: H 15cm Options: H 35cm or H 50cm
Key Lock	Yes, standard

Photosynthetic Lighting (Option)

Part Number	P5031RB	P5031WW
Light Type	LED, 50% Red, 50% Blue	LED, 100% Warm White
Spectrum	Red: 640-660nm, Blue: 430-450nm	4000k: 400-700nm
Light Intensity	Up to 350µmol/(m²*s)	Up to 400µmol/(m²*s)
Control	Yes, Individually, from 0-100% output	Yes, from 0-100% output
Power	120W	
Control Mode	Fixed Value & Programmable	
Dimensions (WxDxH)	550 x 430 x 10mm	

Min. 15°C when Photosynthetic Lighting option is applied.

Shaking Unit

Drive Type	Direct Beltless Driving System
Tray Size (WxD)	500 x 400mm
Maximum Load	15 kg
Speed Range	30 - 300rpm
Speed Accuracy	±1rpm
Timer	0 - 9999 mins
Shaking Mode	Orbital
Shaking Diameter	Ø1-50mm Stepless Adjustment

Temperature

Control Mode	Fixed Value & Program
Temp. Range	Ambient - 20°C to 60°C (Min. 4°C)#
Temp. Accuracy	±0.1°C
Temp. Uniformity	±0.5°C @ 37°C
Principle of Sensor	PT100
Air Circulation	360m³/Hour
Recovery (@37°C)	8 mins (30 Seconds Door Opening)

Order Information

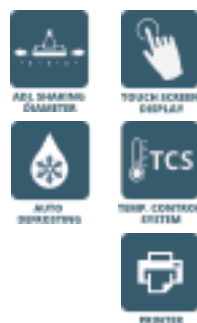
ZWYR-293	120L, Premium Compact Shaking Incubator, 4°C - 60°C, 30-300rpm
P4003	Built-in Printer
P5016	RS-485 Interface
P5031RB	LED Lighting Panel and Control Kit, Red & Blue for ZWYR-293
P5031WW	LED Lighting Panel and Control Kit, Warm White for ZWYR-293
P5032-35	Cabinet Base Stand for ZWYR-293, 840x710x350mm
P5032-50	Frame Base Stand for ZWYR-293, 840x710x500mm
P5033	TCP/IP interface
P6040	Tray for ZWYR-293, 500x400mm, Predrilled
P6041	Tray for ZWYR-293, 500x400mm, Plain
P7029	Universal Spring Pallet for ZWYR-293, 500x400mm
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
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
P8028	O Clamp, S/S, for 3000ml Flask, with Spring Retainer
P8029	O Clamp, S/S, for 5000ml Flask, with Spring Retainer
P8032	O Clamp, S/S, for 96 Well Plate



ZWYR-293



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. The P.I.D microprocessor controlled shakers have a number of advanced features that are unique in bench top models. This unique benchtop model with shaking diameter stepless adjustable from Ø1-50mm 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 and 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, nutrient mixing and agitation in from small to large flasks.
- ▶ Timer up to 9999 mins under fixed value control mode.
- ▶ Quality brushless AC inductive motor supports reliable, quiet and smooth shaking movements up to top speed.
- ▶ Auto-defrosting system, ensuring long-terms non-frosting operation with low temperature set-points.
- ▶ 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.
- ▶ 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	69L		
Shaking Speed	30-600rpm	30-400rpm	30-240rpm
Stroke	Ø1-50mm Stepless Adjustable		
Shaking Mode	Orbital		Reciprocal
Tray (mm) (WxD)	400x370		435x420
Ambient Temp.	5°C - 25°C		
Temp. Range	Ambient - 20°C to 60°C (Min.4°C)		
Temp. Accuracy	±0.1°C		
Temp. Uniformity	±0.5 @ 37°C		
Timer	0 to 9999 mins		
Inner Dimensions (mm) (WxDxH)	490x470x320	490x470x335	490x470x320
Exterior Dimensions (mm) (WxDxH)	774x740x610		
Packing Dimensions (mm) (WxDxH)	860x850x760		
Net/Gross Weight	100/132 Kg		
Power	700W		
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	P8001	P8002	P8003	P8004	P8005	P8006	P8007	P8010	P8012
	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	Tube Rack S/S	96 Well Plate
ZWYR-200D	30	23	12	9	7	7	4	3	8
ZWYR-240	30	23	12	9	7	7	4	3	8
ZWFR-200	47	28	15	11	9	9	4	3	8

Order Information

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

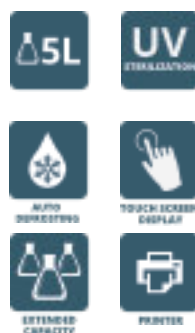
P5016	RS-485 Interface
P5030	Fluorescent Light for ZWYR-240/200D, ZWY-240/200D
P5047	Stationary Shelf for ZWYR-240 (Max loading weight: 2kg)
P6004	Predrilled Tray for ZWYR-240/200D, ZWY-240/200D, S/S ※
P6005	Predrilled Tray for ZWFR-200, ZWF-200, S/S
P6034	Plain Tray for ZWY-240/200D; ZWYR-240/200D
P7003	Universal Spring Pallet for ZWYR-240/200D, ZWY-240/200D
P7005	Universal Spring Pallet 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
P8007	T Clamp, S/S, for 2000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	T Clamp, S/S, for 96 Well Plate
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, hybridisation, 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.
- ▶ Timer up to 9999 mins under fixed value control mode.
- ▶ Quality brushless AC inductive motor supports reliable, quiet and smooth shaking movements up to top speed.
- ▶ Auto-defrosting system, ensuring long-terms non-frosting operation with low temperature set-points.
- ▶ 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.
- ▶ Predrilled standard tray included, without clamps.
- ▶ UV light reduces the air burden, keeping the chamber contamination free.

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	260L	300L	275L
Working Temp.	10°C - 35°C		
Shaking Speed	30-300rpm		30-240rpm
Stroke	Ø26mm		Ø1-50mm Stepless Adjustment
Shaking Mode	Orbital		Reciprocal
Tray (mm) (WxD)	920x500	940x584	896x530
Temp. Range	Ambient - 20°C to 60°C (Min.4°C)		
Temp. Accuracy	±0.1°C		
Temp. Uniformity	±0.5 @ 37°C		
Timer	0 to 9999 mins		
Inner Dimensions (mm)(WxDxH)	975x565x465	1040x655x465	975x565x465
Exterior Dimensions (mm)(WxDxH)	1230x730x1065	1290x820x1065	1230x730x1065
Packing Dimensions (mm)(WxDxH)	1310x860x1230	1370x960x1230	1310x860x1230
Net/Gross Weight	255/308 kg	263/325 kg	290/354 kg
Power	1150W	1800W	1150W
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)		

Order Information

ZWYR-211C	ZWYR-211C, 260L, Premium Horizontal Shaking Incubator 4°C-60°C, 30-300rpm
ZWYR-211D	ZWYR-211D, 300L, Premium Horizontal Shaking Incubator 4°C-60°C, 30-300rpm
ZWFR-211	ZWFR-211, 300L, Premium Reciprocal Horizontal Shaking Incubator 4°C-60°C, 30-240rpm
P5016	RS-485 Interface
P6006	Predrilled Tray for ZWY-111B/211B/111C/211C/ZWYR-211C, S/S ※
P6007	Predrilled Tray for ZWYR-211D, S/S
P6008	Predrilled Tray for ZWF-111/211/ZWFR-211, S/S
P6043	Plain Tray for ZWY-111B/211B/111C/211C, ZWYR-211C, S/S
P6044	Plain Tray for ZWY-111D/211D, ZWYR-211D, S/S
P6045	Plain Tray for ZWF-111/211, ZWFR-211, S/S
P7007	Universal Spring Pallet for ZWY-111B/211B/111C/211C/ZWYR-211C, Full Pcs
P7008	Universal Spring Pallet for ZWYR-211D, Full Pcs
P7009	Universal Spring Pallet for ZWF-111/211, ZWFR-211, Full Pcs
P7022	Universal Spring Pallet for All Horizontal Model, 1/2 Pcs

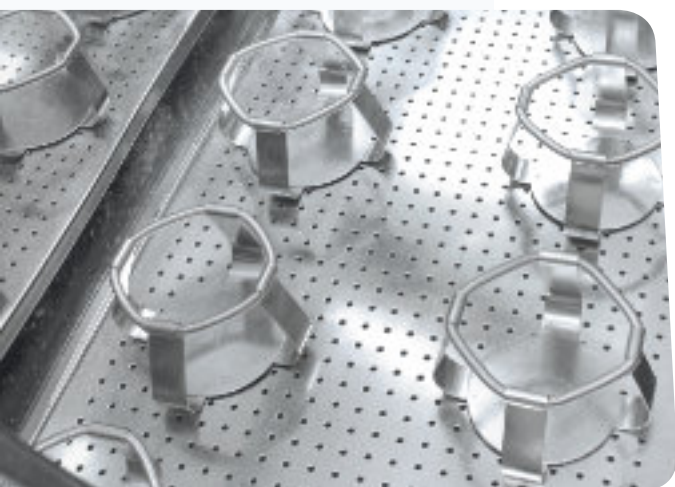
※ S/S: Stainless Steel

Order Information

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	T Clamp, S/S, for 96 Well Plate
P8017	Sticky Mat, 20 x 20cm

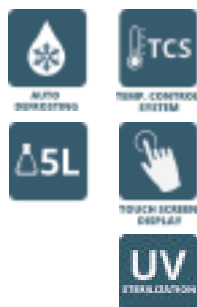
* S/S: Stainless Steel

Capacity	P8001 50ml	P8002 100ml	P8003 250ml	P8004 500ml	P8005 750ml	P8006 1000ml	P8007 2000ml	P8008 3000ml	P8009 5000ml	P8010 Tube Rack S/S	P8012 96 Well Plate
ZWYR-211C	116	82	42	33	24	18	14	10	6	10	28
ZWYR-211D	131	92	52	38	26	24	15	11	8	12	32
ZWFR-211	111	84	43	33	24	20	13	8	6	9	31



P7007

Universal Spring Pallet for:
ZWY-111B/211B/111C/211C/ZWYR-211C



ZWYR-2102C



ZWYR-2102

ZWYR-2112B



PREMIUM DOUBLE LAYER Shaking Incubators

The 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, hybridisation, 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).
- ▶ Auto-defrosting system, ensuring long-term frost-free operation at low temperature set points.
- ▶ 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	P8001 50ml	P8002 100ml	P8003 250ml	P8004 500ml	P8005 750ml	P8006 1000ml	P8007 2000ml	P8008 3000ml	P8009 5000ml	P8010 Tube Rack S/S	P8012 96 Well Plate
ZWYR-2102C	78	56	36	24	18	6*	4*	3*	2*	8	18
ZWYR-2102	118	104	64	54	30	30	8*	7*	4*	16	38
ZWYR-2112B	262	200	110	76	52	44	15*	10*	8*	22	60
ZWFR-2112	252	190	118	80	48	40	15*	10*	7*	20	64

* Applies only when single layer shaking frame is equipped.

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	170L	330L	580L	580L
Working Temp.	5°C - 25°C			
Shaking Speed	30-300rpm			30-240rpm
Stroke	Ø26mm		Ø35mm	Ø1 to 50mm Stepless Adjustment
Shaking Mode	Orbital			Reciprocal
Temp. Range	Ambient - 20 to 60°C (Min.4°C)			
Temp. Accuracy	±0.1°C			
Temp. Uniformity	±0.5 @ 37°C			
Timer	0 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)	800x770x1490	1030x870x1640	1540x1000x1910	1500x950x1860
Net/Gross Weight	195/238 kg	255/330 kg	460/590 kg	486/562 kg
Power	1000W	1050W	1600W	1600W
Electricity	220-240V, 50/60 Hz			
Approval	CE, ISO			
Security	Over-temperature Protection, Compressor Overload Protection, Electrical Leakage Protection			
Additional	Built in Printer, RS-485 Interface (Option)			

Order Information

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

Order Information

P5001	Single Layer Shaking Frame for ZWY-1102C/2102C, ZWYR-2102C, Stl S/C#
P5002	Single Layer Shaking Frame for ZWY-1102/2102, ZWYR-2102, Stl S/C
P5003	Single Layer Shaking Frame for ZWY-1112B/2112B, ZWYR-2112B, Stl S/C
P5016	RS-485 Interface
P6010	Predrilled Tray for ZWY-1102C/2102C/ZWYR-2102C, S/S ※
P6011	Predrilled Tray for ZWY-1102/2102/ZWYR-2102, S/S
P6012	Predrilled Tray for ZWY-1112B/2112B/ZWYR-2112B, S/S
P6013	Predrilled Tray for ZWF-1112/2112/ZWFR-2112, S/S
P6031	Plain tray for ZWY-1102/2102, ZWYR-2102
P6038	Plain Tray for ZWY-1102C/2102C, ZWYR-2102C
P6046	Plain Tray for ZWY-1112B/2112B, ZWYR-2112B, S/S
P7011	Universal Spring Pallet for ZWY-1102C/2102C/ZWYR-2102C
P7012	Universal Spring Pallet for ZWY-1102/2102/ZWYR-2102, Full Pcs
P7013	Universal Spring Pallet for ZWY-1112B/2112B/ZWYR-2112B, Full Pcs
P7014	Universal Spring Pallet for ZWF-1112/2112/ZWFR-2112, Full Pcs
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	T Clamp, S/S, for 96 Well Plate
P8017	Sticky Mat, 20 x 20cm

Stl S/C: Spray Coated Steel, ※ S/S: Stainless Steel



Units are equipped with a built-in thermo printer as standard.



The double layer shaking frame on the units supports two trays above each other, optimising the capacity for smaller flasks.

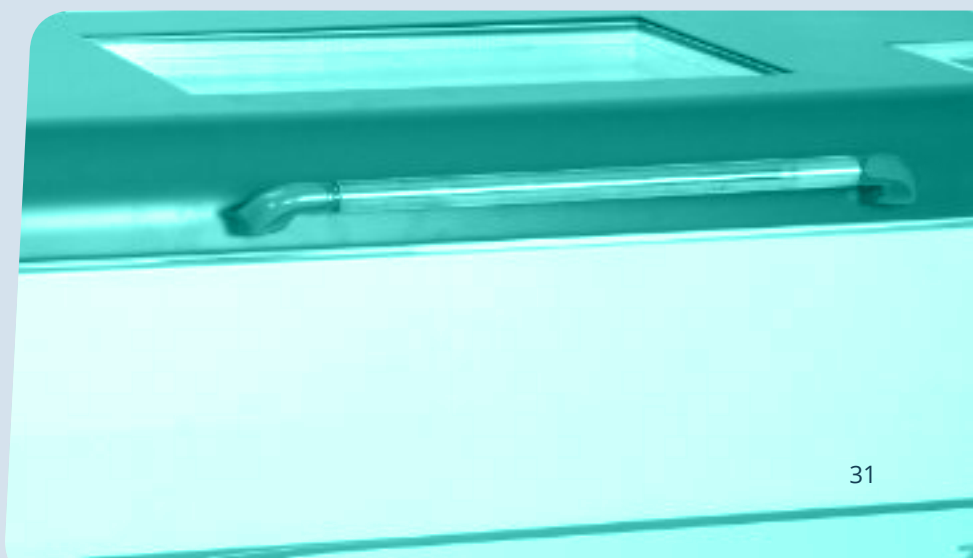


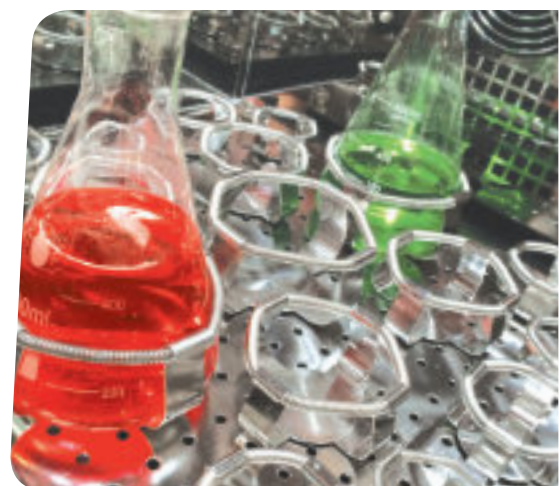
SHAKING INCUBATORS ECONOMIC RANGE



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. Moreover, all economic models are now equipped with auto-defrosting system as standard, providing more comprehensive solutions for wider range of applications.





ZWY-103D

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 and 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 Ø1-50mm.
- ▶ AC inductive motor, brushless and maintenance free.
- ▶ Auto defrosting system, ensuring long terms non frosting operation with low temperature set-points.
- ▶ The combination of high speed and small diameter make ZWY-103D, ZWY-100D and ZWY-200D suitable for many applications involving microtitre plates.
- ▶ Microprocessor control with large LCD screen, showing set and actual parameters.
- ▶ Password protection against unauthorised change of parameters.
- ▶ Audible and visual alarms on over temperature and motor overheating.
- ▶ Soft start and smooth acceleration after lid opening.
- ▶ Timer up to 9999 mins and continuous mode.
- ▶ Predrilled standard tray included, without clamps.

Model	ZWY-103D	ZWY-100H	ZWY-100D	ZWF-100	ZWF-200	ZWY-240	ZWY-200D
Volume	34L	63L	63L	63L	69L	69L	69L
Shaking Speed	30-600 rpm	30-400 rpm	30-600 rpm	30-240 rpm	30-240 rpm	30-400 rpm	30-600 rpm
Stroke	Ø1-50mm Stepless Adjustment			40mm		Ø1-50mm Stepless Adjustment	
Shaking Mode	Orbital			Reciprocal		Orbital	
Tray (mm) (WxD)	280x220	340x370	340x370	346x400	435x420	400x370	400x370
Temp. Range	A +5°C to 60°C				Ambient - 20°C to 60°C (Min.4°C)		
Temp. Accuracy	± 0.1°C						
Temp. Uniformity	≤ ± 0.5 @ 37°C						
Timer	0 - 9999 mins						
Flask Configurations	*Glass dimensions may reduce max. capacity						
50ml	16	30	30	30	47	30	30
100ml	9	20	20	23	28	23	23
250ml	6	11	11	11	15	12	12
500ml	-	9	9	9	11	9	9
750ml	-	5	5	6	9	7	7
1000ml	-	5	5	5	9	7	7
2000ml	-	-	-	-	4	4	4
Tube Rack S/S	-	3	3	3	3	3	3
96 Well Plate	4	4	4	6	10	8	8
Inner Dimensions (mm) (WxDxH)	340x300x175	410x440x295			490x470x320		
Exterior Dimensions (mm) (WxDxH)	440x410x400	600x580x520			730x740x560		
Packing Dimensions (mm) (WxDxH)	530x520x560	690x680x700			810x850x760		
Net/Gross Weight	42/57 kg	72/92 kg	72/97 kg	77/97 kg	100/132 kg	100/132 kg	100/132 kg
Power	280W	550W			700W		
Electricity	220-240V, 50/60 Hz						
Approval	CE, ISO						

Order Information

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

Order Information

P6001	Predrilled Tray for ZWY-103B/D, S/S ※
P6002	Predrilled Tray for ZWY-100H/100D, S/S
P6003	Predrilled Tray for ZWF-100, S/S
P6004	Predrilled Tray for ZWYR-240/200D, ZWY-240/200D, S/S*
P6005	Predrilled Tray for ZWFR-200, ZWF-200, S/S
P6034	Plain tray for ZWY-240/200D; ZWYR-240/200D
P6042	Plain Tray for ZWY-100H/100D, S/S
P6051	Plain Tray for ZWY-103B/D, S/S
P7001	Universal Spring Pallet for ZWY-103B/103D
P7002	Universal Spring Pallet for ZWY-100H/100D
P7003	Universal Spring Pallet for ZWYR-240/200D, ZWY-240/200D
P7004	Universal Spring Pallet for ZWF-100
P7005	Universal Spring Pallet 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
P8007	T Clamp, S/S, for 2000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	T Clamp, S/S, for 96 Well Plate
P8017	Sticky Mat, 20 x 20cm

※ S/S: Stainless Steel



ZWY-200D



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°C , while the temperature accuracy is 0.1°C . All models are equipped with an electronic timer of 0 – 9999 mins. 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 – 9999 mins, automatic stop, audio/ visual alarm.
- ▶ Password protection against unauthorised 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.
- ▶ Auto defrosting system, ensuring long terms non frosting operation with low temperature setpoints.
- ▶ 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)
- ▶ 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	170L		260L		300L	
Shaking Mode	Orbital		Orbital		Reciprocal	
Stroke	Ø26mm		Ø26mm		Ø1-50 mm Stepless Adjustment	
Temp. Range	A +5°C to 60°C	Ambient - 20°C to 60°C (Min.4)	A +5°C to 60°C	Ambient - 20°C to 60°C (Min.4)	A +5°C to 60°C	Ambient - 20°C to 60°C (Min.4)
Temp. Accuracy	±0.1°C					
Temp. Uniformity	≤±0.5 @ 37°C					
Shaking Speed	30-300rpm		30-300rpm		30-240rpm	
Tray Dimension	920x500mm		920x500mm		896x530mm	
Flask Configuration *	*Glass dimensions may reduce max. capacity					
50ml	116		116		111	
100ml	82		82		84	
250ml	42		42		43	
500ml	33		33		33	
750ml	23		23		24	
1000ml	18		18		20	
2000ml	-		14		13	
3000ml	-		10		8	
5000ml	-		6		6	
Tube Rack S/S	10		10		9	
96 Well Plate	28		28		31	
Inner Dimensions (mm) (WxDxH)	975x565x305		975x565x465		975x565x465	
Exterior Dimensions (mm) (WxDxH)	1200x740x820		1230x730x1065		1230x730x1065	
Packing Dimensions (mm) (WxDxH)	1290x840x1000		1310x860x1230		1310x860x1230	
Net/Gross Weight	159/219 kg	174/233 kg	240/293 kg	255/308 kg	270/334 kg	290/354 kg
Power	800W	1050W	950W	1150W	950W	1150W
Electricity	220-240V, 50/60 Hz					
Approval	CE, ISO					

Order Information

ZWY-111B	ZWY-111B, 170L, Economic Horizontal Shaking Incubator A +5°C-60°C, 30-300rpm
ZWY-211B	ZWY-211B, 170L, Economic Horizontal Shaking Incubator 4°C-60°C, 30-300rpm
ZWY-111C	ZWY-111C, 260L, Economic Horizontal Shaking Incubator A +5°C-60°C, 30-300rpm
ZWY-211C	ZWY-211C, 260L, Economic Horizontal Shaking Incubator 4°C-60°C, 30-300rpm
ZWF-111	ZWF-111, 300L, Economic Reciprocal Horizontal Shaking Incubator A +5°C-60°C, 30-240rpm
ZWF-211	ZWF-211, 300L, Economic Reciprocal Horizontal Shaking Incubator 4°C-60°C, 30-240rpm
P6006	Predrilled Tray for ZWY-111B/211B/111C/211C/ZWYR-211C, S/S ※
P6008	Predrilled Tray for ZWF-111/211/ZWFR-211, S/S
P6043	Plain Tray for ZWY-111B/211B/111C/211C, ZWYR-211C, S/S
P6045	Plain Tray for ZWF-111/211, ZWFR-211, S/S
P7007	Universal Spring Pallet for ZWY-111B/211B/111C/211C/ZWYR-211C, Full Pcs
P7009	Universal Spring Pallet for ZWF-111/211, ZWFR-211, Full Pcs
P7022	Universal Spring Pallet 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	T Clamp, S/S, for 96 Well Plate
P8017	Sticky Mat, 20 x 20cm

※ S/S: Stainless Steel



ZWF-211



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 units are particularly ideal for fermentation and pharmacy experiments and are 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 – 9999 mins, automatic stop, audio/ visual alarm.
- ▶ Password protection against unauthorised 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.
- ▶ Auto defrosting system, ensuring long terms non frosting operation with low temperature setpoint.
- ▶ 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 unauthorised 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	170L		330L		580L		580L	
Shaking Mode	Orbital		Orbital		Orbital		Reciprocal	
Temp. Range	A +5°C to 60°C	Ambient - 20°C to 60°C (Min.4)	A +5°C to 60°C	Ambient - 20°C to 60°C (Min.4)	A +5°C to 60°C	Ambient - 20°C to 60°C (Min.4)	A +5°C to 60°C	Ambient - 20°C to 60°C (Min.4)
Temp. Accuracy	±0.1°C							
Temp. Uniformity	≤±0.5 @ 37°C							
Stroke	26mm		26mm		35mm		Ø1-50 mm Stepless Adjustment	
Speed	30-300rpm		30-300rpm		30-300rpm		30-240rpm	
Tray (WxD)	496x350mm		734x458mm		970x560mm		940x580mm	
Capacity	*Glass dimensions may reduce max. capacity							
50ml	78		118		262		252	
100ml	56		104		200		190	
250ml	36		64		110		118	
500ml	24		54		76		80	
750ml	18		30		52		48	
1000ml	6*		30		44		40	
2000ml	4*		8*		15*		15*	
3000ml	3*		7*		10*		10*	
5000ml	2*		4*		8*		7*	
Tube Rack S/S	8		16		22		20	
96 Well Plate	18		38		60		64	
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)	800x770x1490 (WxDxH)		1030x870 x1640 (WxDxH)		1540x1000x1910 (WxDxH)		1500x950x1860 (WxDxH)	
Net/Gross Weight	180/223kg	195/238kg	235/305kg	255/330kg	445/555kg	460/590kg	470/580kg	486/596kg
Power	1000W	1250W	1050W	1300W	1600W	1950W	1600W	1950W
Electricity	220-240V, 50/60 Hz							
Approval	CE, ISO							

* Applies only when single layer shaking frame is equipped.

Order Information

ZWY-1102C	ZWY-1102C, 170L, Economic Double Layer Shaking Incubator A +5°C-60°C, 30-300rpm
ZWY-2102C	ZWY-2102C, 170L, Economic Double Layer Shaking Incubator 4°C-60°C, 30-300rpm
ZWY-1102	ZWY-1102, 330L, Economic Double Layer Shaking Incubator A +5°C-60°C, 30-300rpm
ZWY-2102	ZWY-2102, 330L, Economic Double Layer Shaking Incubator 4°C-60°C, 30-300rpm
ZWY-1112B	ZWY-1112B, 580L, Economic Double Layer Shaking Incubator A +5°C-60°C, 30-300rpm
ZWY-2112B	ZWY-2112B, 580L, Economic Double Layer Shaking Incubator 4°C-60°C, 30-300rpm
ZWF-1112	ZWF-1112, 580L, Economic Reciprocal Double Layer Shaking Incubator A +5°C-60°C, 30-240rpm
ZWF-2112	ZWF-2112, 580L, Economic Reciprocal Double Layer Shaking Incubator 4°C-60°C, 30-240rpm
P5001	Frame for ZWY-1102C/2102C, ZWYR-2102C, Stl S/C #
P5002	Frame for ZWY-1102/2102, ZWYR-2102, S/C
P5003	Frame for ZWY-1112B/2112B, ZWYR-2112B, Stl S/C
P6010	Predrilled Tray for ZWY-1102C/2102C, ZWYR-2102C, S/S *
P6011	Predrilled Tray for ZWY-1102/2102, ZWYR-2102, S/S
P6012	Predrilled Tray for ZWY-1112B/2112B, ZWYR-2112B, S/S
P6013	Predrilled Tray for ZWF-1112/2112, ZWFR-2112, S/S
P6031	Plain tray for ZWY-1102/2102, ZWYR-2102
P6038	Plain Tray for ZWY-1102C/2102C, ZWYR-2102C
P6046	Plain Tray for ZWY-1112B/2112B, ZWYR-2112B, S/S
P6047	Plain Tray for ZWF-1112/2112, ZWFR-2112, S/S
P7011	Universal Spring Pallet for ZWY-1102C/2102C, ZWYR-2102C
P7012	Universal Spring Pallet for ZWY-1102/2102, ZWYR-2102, Full Pcs
P7013	Universal Spring Pallet for ZWY-1112B/2112B, ZWYR-2112B, Full Pcs
P7014	Universal Spring Pallet for ZWF-1112/2112, ZWFR-2112, Full Pcs
P7023	Universal Spring Pallet 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	T Clamp, S/S, for 96 Well Plate
P8017	Sticky Mat, 20 x 20cm

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

SHAKERS & ROCKERS



Shakers and rockers are ideal for almost any vessels from tubes through petri dishes and microtitre plates to conical flasks. Shakers are available with either an orbital action where the platform moves in a circular orbit or a reciprocal linear movement where the platform moves back and forth horizontally. An orbital action provides a swirling action on the sample, ideal for aeration. A linear shaker is more aggressive making it ideal for applications such as extractions. A see saw rocking action provides a wave motion in the sample, ideal for washing.





ZWF-334



ZWY-304

ZWQ-344



BENCHTOP Shakers & Rockers

LABWIT offers a comprehensive range of benchtop shakers and rockers, units are available with three actions, orbital, linear and see-saw, and two sizes.

Benchtop Orbital Shaker

- ▶ The ZWY-304 provides a smooth uniform circular motion with an orbit of 30mm. The shaker can be used in incubators and warm room if the temperature is not higher than 50°C.
- ▶ The standard cradle platform can turn ZWY-304 unit into a very effective mini platform shaker, which allows for different combinations of vessels offering maximum versatility. Alternatively, the tray is interchangeable with flask clamp tray (ZWF-334) or non-slip mat tray (ZWQ-344).
- ▶ Speed is variable from 30 to 300rpm, with shaking times can be set to run from 0 to 500 hours, or set for continuous operation. The non-volatile memory restores all settings after power failure.

Benchtop Reciprocal Shaker

- ▶ The ZWF-334 lab scale platform shaker has a powerful yet quiet shaking mechanism that has been designed for problem free continuous use. This unit provides a versatile linear shaking action with unique 4 level stroke adjustment from 20, 24, 30 to 40mm, ideal for most extracting applications.
- ▶ Speed is fully variable from 30-300rpm, and is set digitally for consistency. The speed is microprocessor controlled and accurately maintained even over long runs. The built-in timer can be set from 0 to 500 hours. After the timer has counted down, the shaker stops and sounds an alert. The flask clamp tray is fitted as standard, while can be interchanged with non-slip mat tray or cradle platform.

Benchtop See-Saw Rocker

- ZWQ-344 has a see-saw rocking action that creates a wave motion within vessels such as culture flask, petri dishes etc. A unique feature of the ZWQ-344 unit provides 4 level of tilt angles from 5°, 8°, 10° and 12°, ideal for washing.
- The speed is microprocessor controlled, variable from 20-80rpm. The model is supplied with a non-slip mat. The large LCD screen with user-friendly digital keypad ensures clear readout and easy operation. Like all other benchtop shakers, all settings of speed and time are encrypted to prevent unauthorised changes.

Model	ZWY-304	ZWF-334	ZWQ-344
Action Mode	Orbital	Reciprocal	Rocker
Speed Range (/min)	30-300 rounds	30-300 strokes	20-80 tilts
Speed Variation (/min)	±1 round	±1 stroke	±1 tilt
Stroke	Ø30 mm	20, 24, 30, 40 mm	5°, 8°, 10°, 12°
Tray Dimensions (mm)	330x350	330x350	330x350
Accessory Included	Rubber Bar Tray	Clamp Tray	Tray with non-slip mat
Timer	0 to 500 hours		
Maximum Load	3.5 kg	3.5 kg	4 kg
Overall Dimensions (WxDxH)	400x350x235mm	400x350x160mm	400x360x185mm
Packing Dimensions (mm) (WxDxH)	490x490x420	480x430x400	480x430x400
Net/Gross Weight	25/37 kg	21/31 kg	10/20 kg
Safety Features	Non-volatile Memory, Power-off Recovery, Timer		
Power	50W		
Electricity	220-240V, 50/60 Hz		
Approval	CE, ISO		

Clamp Tray	P8001 50ml	P8002 100ml	P8003 250ml	P8004 500ml	P8005 750ml	P8006 1000ml	P8007 2000ml	P8008 3000ml	P8009 5000ml	P8010 Tube Rack S/S	P8012 96 Well Plate
P6016	24	17	9	7	-	-	-	-	-	3	6

Order Information

ZWY-304	ZWY-304 Orbital Benchtop Shaker, 30-300rpm	P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
ZWF-334	ZWF-334 Reciprocal Benchtop Shaker, 30-300rpm	P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
ZWQ-344	ZWQ-344 Rocking Benchtop Shaker, 20-80rpm	P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P6016*	Tray for ZWY-304/ZWF-334, S/S * Clamp Tray	P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P6017	Tray for ZWY-304/ZWF-334, S/S Bar Tray x 1, Rubber Bar x 4, Knob x8	P8010	Tube Rack S/S
P6018	Tray for ZWQ-344, Std S/C# Tray x 1, Spring x 4, Rubber Mat x 1	P8011	Tube Rack ABS Plastic
P7017	Universal Spring Tray for ZWY-304/ZWF-334	P8012	T Clamp, S/S, for 96 Well Plate
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer	P8017	Sticky Mat, 20 x 20cm
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer	* S/S: Stainless Steel #Std S/C: Spray Coated Steel	



ZWY-3222B

ZWY-322B

ZWY-B3222



FLOOR Orbital Shakers

LABWIT floor shakers are designed to uniformly shake more than a hundred of samples 24/7 under the extreme environmental conditions, like in warm and in cold room (5 to 50°C non condensation). The powerful drive mechanism guarantees reliable, smooth and quiet orbital shaking without vibration, even on a high speed up to 300rpm. They are ideal for mass production, especially the two platform models ZWY-3222B and ZWY-B3222 are widely used in biochemical, fermentation and pharmaceutical experiments for big volumes or a lot of small flasks.

- ▶ Microprocessor controller maintains the precision of speed control.
- ▶ Large LCD display presents all actual and set parameters.
- ▶ Password protection of all parameters against unauthorised change.
- ▶ Operating parameter retention after power failure.
- ▶ Electronic timer with 0 to 999 hours or continues operation.
- ▶ Soft start and stop function.
- ▶ Patented over-speed protection minimises the risk of uncontrolled shaking.
- ▶ Two platform models provide increased capacity; accept 50ml to 1L flasks on lower level, or up to 5L if without the top tray.
- ▶ Powerful brushless AC induction motor with quadruple counterbalanced drive system.
- ▶ Superior cast iron and stainless steel critical components.

Model	ZWY-322B	ZWY-3222B	ZWY-322C	ZWY-B3222
Action Mode	Orbit			
Stroke	Ø35mm		Ø50mm	
Speed	30-300rpm			
Speed Variation	±1rpm			
Timer	0 to 999 hours			
Number of Trays	1	2	1	2
Tray (WxD)	940x700mm			
Flasks Configurations*	*Glass dimensions may reduce max. capacity			
50ml	161	322	161	322
100ml	100	200	100	200
250ml	61	122	61	122
500ml	52	104	52	104
750ml	37	74	37	74
1000ml	30	60	30	60
2000ml	19*	-	19*	-
3000ml	12*	-	12*	-
5000ml	8*	-	8*	-
Tube Rack S/S	14	28	14	28
96 Well Plate	42	84	42	84
Exterior Dimensions (mm) (WxDxH)	1115x840x455	1115x840x815	1115x840x455	1115x840x815
Packing Dimensions (mm) (WxDxH)	1210x920x690	1210x920x1040	1210x920x690	1210x920x1040
Net/Gross Weight	280/335 kg	310/370 kg	330/425 kg	350/450 kg
Power	300W			
Electricity	220-240V, 50/60 Hz			
Approval	CE, ISO			

Order Information

ZWY-322B	ZWY-322B, Single Layer, Orbital Floor Shaker, Ø35mm, 30-300rpm	P8002	Clamp, S/S, for 100ml Flask, with Spring Retainer
ZWY-3222B	ZWY-3222B, Double Layer, Orbital Floor Shaker, Ø35mm, 30-300rpm	P8013	Clamp, S/S, for 150ml Flask, with Spring Retainer
ZWY-322C	ZWY-322C, Single Layer, Orbital Floor Shaker, Ø50mm, 30-300rpm	P8003	Clamp, S/S, for 250ml Flask, with Spring Retainer
ZWY-B3222	ZWY-B3222, Double Layer, Orbital Floor Shaker, Ø50mm, 30-300rpm	P8014	Clamp, S/S, for 300ml Flask, with Spring Retainer
P5006	Single Layer Shaking Frame for ZWY-322B/3222B, Stl S/C	P8004	Clamp, S/S, for 500ml Flask, with Spring Retainer
P5008	Single Layer Shaking Frame for ZWY-322C/ B3222, Stl S/C	P8005	Clamp, S/S, for 750ml Flask, with Spring Retainer
P6020	Predrilled Tray for ZWY-322B/3222B Stl S/C	P8006	Clamp, S/S, for 1000ml Flask, with Spring Retainer
P6021	Predrilled Tray for ZWY-322C/B3222 Stl S/C	P8007	Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P6048	Plain Tray for ZWY-322B/3222B Stl S/C	P8008	Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P6049	Plain Tray for ZWY-322C/B3222 Stl S/C	P8009	Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P7019	Universal Spring Pallet for ZWY-322B/3222B	P8010	Tube Rack S/S *
P7020	Universal Spring Pallet for ZWY-322C/B3222	P8011	Tube Rack ABS Plastic
P7022	Universal Tray for All Horizontal Model, 1/2 Pcs	P8012	T Clamp, S/S, for 96 Well Plate
P8001	Clamp, S/S, for 50ml Flask, with Spring Retainer	# Stl S/C: Spray Coated Steel * S/S: Stainless Steel	





OVENS & INCUBATORS

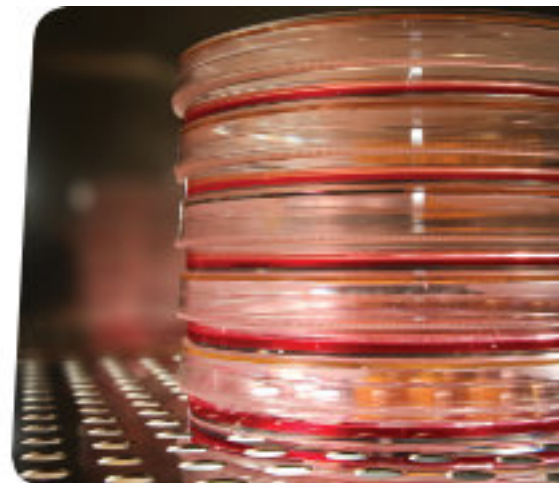
LABWIT range of laboratory incubators and drying ovens are made to the highest standard for exceptional quality, trusted for their consistency in delivering optimum performance and reliability in the lab.

LABWIT's collection of incubators provide precisely controlled environment with wide variety of sizes and types, which literally are suitable for all purposes in a broad range of applications. The general purpose incubators are designed for general lab use and feature direct heating and water jacket models for optimised temperature uniformity across the inner chambers. The direct heating CO₂ incubator has been carefully engineered and proven to provide contamination-free, reliable and easy-to-use environment conditions to protect the samples and optimize cell growth. Besides these, LABWIT also offers incubators with cooling as well as humidity controlling functions, to extend the functionality of our proud product lines.

Moreover, LABWIT drying ovens are available in two types, bottom heating and back heating models. Both types are designed for daily lab or industrial work, from drying sterilisation applications to complex controlled heating applications.



ZOCR-1160



DIRECT HEATING CO₂ Incubator

The LABWIT ZOCR Series CO₂ Incubators are intricately crafted to provide reliable, user-friendly control over environmental conditions, ensuring the protection of samples and the enhancement of cell growth. This latest innovation from LABWIT showcases a fanless micro-circulation design with closed-loop HEPA filtration, effectively reducing dead corners in the chamber where potential contamination could lurk.

Touch Screen Panel

Start your complete access and full control from your fingertips



Integrated

Comprehensive information available at your fingertips



User-friendly

Graphic user interface, easy to operate with icons and prompts



Intelligent

Self diagnostic alarm system monitors all functions and parameters and prompts the user in case of errors

Touch Screen Panel

1. Decon

Start / stop Decon Cycle

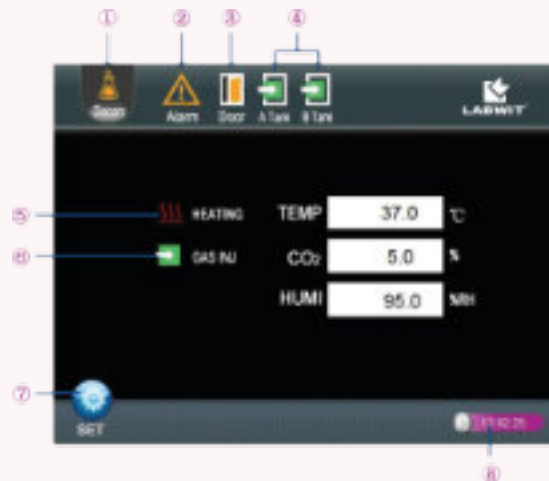
2. Alarm Indicator

Blinks when alarm occurs.

Alarms (except for sensor failures) can be muted by pressing this icon, and may ring back in 5 minutes if alarm conditions still persist.

3. Door Ajar

Lights when door is opened.



4. CO₂ Tank Indicator

Lights when indicated CO₂ tank supply is in use

A Tank: Primary

B Tank: Secondary

5. Heating Indicator

Lights when heating elements are working

6. Gas Inject Indicator

Lights when CO₂ gas is injected.

7. Enter set menu

8. Clock display

Precise Parameter Controlling System

All-round cares about your cell growth

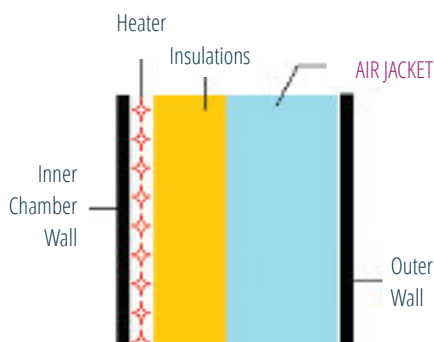
Direct Heating and Air Jacket System

The chamber design combines direct heating and air jacket elements resulting in efficient thermal isolation of the chamber, rapid temperature recovery and superior protection of samples from ambient temperature fluctuations. Multiple direct heating elements are mounted on each side of the chamber and are controlled independently by the microprocessor to provide outstanding temperature uniformity. One element in the external door and a second within the main unit and adjacent to the perimeter of the glass door, are controlled proportionally to eliminate any of condensation on the glass door.

The unique Air Jacket system creates isolation between insulation and ambient, thereby minimising the impact of ambient temperature fluctuations on the working chamber, and maintaining more stable temperature control.

Fan-less Chamber with Micro-circulation System

The chamber features a brand-new fanless micro-circulation system combined with an inline closed-loop HEPA filter. The micro-circulation system ensures that there are no temperature gradients inside the chamber, achieving perfect temperature uniformity.



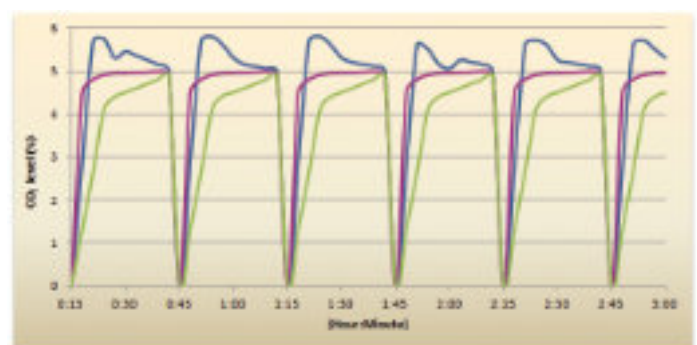
The closed-loop HEPA filtration system is located outside the chamber, unaffected by the chamber's 140°C high-temperature sterilisation program.

World Class Infrared (IR) CO₂ Sensor

LABWIT incorporates a single beam, dual wavelength IR CO₂ sensor, providing the most accurate measurement of CO₂ concentrations available to the market. The superior performance and accuracy of the IR sensor are the most noticeable when applied to situations where temperature and humidity fluctuate rapidly, such as when the door is opened frequently.

IR sensor is located out of the chamber; meaning removal is not required when performing the high temperature decontamination cycle.

IR sensor is drift-free, auto-zero automatically adjusts baseline for optimum accuracy, no need to calibrate by the users.



- Company A's Model: Slow recovery (Typical TC Sensor)
- Company B's Model: Overshoot
- LABWIT ZOCR Model: Fast Recovery, non-overshoot (IR Sensor)

Superior Contamination Controlling Features

Maximizing the safety for where your cells will be thriving

In-Line HEPA Filter

Protects cultures by removing potential contamination sources before CO₂ gas is injected into the chamber. In-line filter should be checked and replaced regularly.



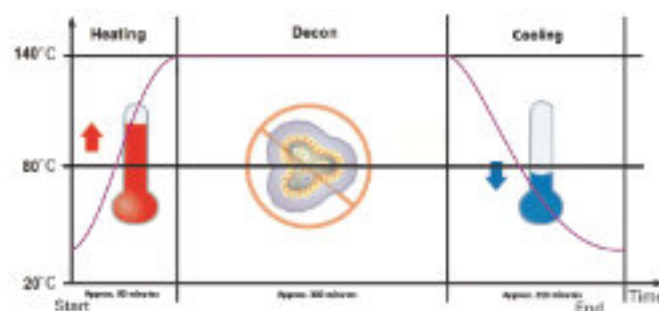
Seamless Chamber & Coved Corners

The entire inner chamber is made of high grade electro- polished easy-to-clean stainless steel. All coved corners minimises the unnecessary chamber surfaces where contaminants can hide.

The Fan-less chamber design not only eliminates the circulating fan, which are prone to contamination and create numerous difficult-to-clean dead corners in traditional CO₂ incubators, facilitating cleaning and optimising the sterile chamber, but also significantly increases the actual usable space of the inner chamber.

140°C Decontamination Cycle

The ZOCC Series uses time-ed decontamination cycle. The high temperature decontamination cycle uses 140°C dry heating cycles, effective and maintenance free method to ensure the contaminating agents are eradicated. The incubator can be fully sterilised and ready for a new application after an 10-hour overnight, maintenance free Decon Cycle.



Safety Features

- ▶ Non-volatile memory guarantees data integrity in the event of power interruption.
- ▶ Alarms provide optimum protections over all sensor failures.
- ▶ Over-temperature protections unit: alarms when temperature deviation is detected, and heaters are cut off when the temperature is overshoot by 3°C.
- ▶ Over-current and leakage protection.
- ▶ CO₂ deviation alarm protects the pH value of the culture media.
- ▶ Lockable outdoor protects biohazard samples from unauthorised access.
- ▶ CO₂ supply is interrupted upon door opening to avoid unnecessary gas waste.
- ▶ CO₂ tank backup system (Optional): integrated gas tank switcher allows the connection of two CO₂ gas supplies.
- ▶ Audio and visual alarm reminds of low supply of CO₂ gas.

When low gas supply in the primary tank is detected, the controller switches automatically to the secondary supply.

Order Information

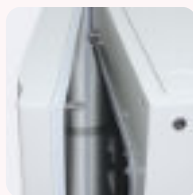
ZOCR-1160	ZOCR-1160, 160L, Premium DH CO ₂ Incubator, IR Sensor, A +5°C-60°C, 0-20%
P4002	Right Hinged Door
P4003	Built-in Printer
P4004	Gas Tank Backup Kit
P5033	TCP/IP Interface
P5035	USB Port Interface
P9033	Perforated Shelf Plate for ZOCR-1160

Other Features

► Outer Door

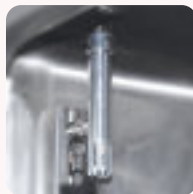
Right or Left Hinge Reversible.
Heated for preventing condensations.

Lockable outer door protects your samples against unauthorised access, especially when biologically hazardous material is involved.



► Humidity Sensor

Ensures continuous monitoring over the humidity level.
Resolution of display:
1% Passive humidity read-out. Easy to dismantle for high temperature Decon Cycle.



► Stacking Locator

Corners are pressed for easy locating during stacking.



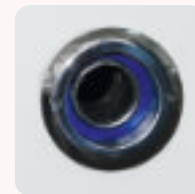
► Shelving

SUS304 electro-polished stainless steel.
Anti-tip, easy to dismantle without tools.
Perforated, for improving uniformity.



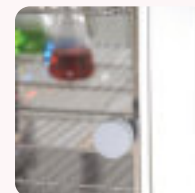
► Water Pan

Autoclavable stainless steel water pan heated by controlled base heater to manage humidity and assist humidity recovery.



► Access Port

Makes validation easy and provide the user convenience for connecting instrumentation. A rubber stopper is included as standard.



► Glass Inner Door

Tempered glass door allows observations without interference to the inner chamber environment.



Door Lock

Main Switch

Co₂ Sampling Port

Thermostat

Safety Switch (DECON CYCLE)

Printer (Optional)

USB 2.0 Port (Optional)

Modbus Port (Optional)



Model	ZOCR-1160
	Temperature
Heating Mode	Direct Heat & Air Jacket
Control Method	P.I.D Microprocessor
Temp. Range	Ambient +5°C to 60°C
Temp. Uniformity	≤±0.3 @ 37°C
Temp. Accuracy	≤±0.2°C
Ambient Temp. Range	10°C - 35°C
	CO₂
CO₂ Control Method	P.I.D Microprocessor
CO₂ Range (% CO₂)	0-20
CO₂ Accuracy (% CO₂)	≤±0.2
CO₂ Sensor	IR, Single-Beam, Dual Wavelength, Auto-zeroing
	Humidity
Humidification Method	Water Pan
Humidity Range (RH)	Up to 95% @ 37°C
Humidity Display Resolution (RH)	0.01
	Contamination Control
Contamination Control Methods	High Temperature 140°C Decon Cycle
	0.3 Micron In-line HEPA Filter for CO ₂ Injection
	Controlling system
Circulation Mode	Fan-less, Closed Loop HEPA Filtration
Control Panel	5.6" TFT Touch Screen
Alarms	Low & Over temperature, Low & Over CO ₂ Deviation, Door Ajar, Low Gas Supply, All Sensor Failures, Printer Failure
CO₂ Tank Backup System	Option, with Low Gas Supply Alarm, Auto Switch
Printer	Option, Built-in
Modbus TCP/IP Port	Option
USB2.0 Port	Option
	Capacity
Internal Volume	160L
Internal Dimensions (WxDxH)(mm)	603 x 456 x 650
Exterior Dimensions (WxDxH)(mm)	720 x 710 x 980
Packing Dimensions (WxDxH)(mm)	850 x 830 x 1220
Net/Gross Weight	110/130 kg
Door Type	Left/Right Reversible
Number of Shelves (Std/Max)	3/10
Max. Load (Kg)	10/Shelf; 25/Unit
Shelves Size (WxD) (mm)	530 x 400
Electricity	220/240V, 50/60 Hz
Power	1200W
Approval	CE, ISO



ZXDP-B2080



DIRECT HEATING Incubators



ZXDP-B Series of Direct Heating Incubators offer an economical incubation method to a variety of micro-organism cultures. As a standard feature, all incubators have a high-tech microprocessor controller that maintains accurate temperature control (PID) of the chamber in the range of ambient +5°C to 65°C. With an accuracy of $\pm 0.1^\circ\text{C}$, a user-friendly sealed control panel allows easy digital setting and fast readout of time and temperature as well as an alarm signal if there is a deviation from set point parameters. The processor of our incubators can store up to 9 programs-18 steps-into a non-volatile memory. Programs can be used for running multiple "ramp and soak" cycles up to 99 times. Of course the incubators can also be used as a constant (one) temperature incubator.

- ▶ P.I.D. microprocessor ensures the precision of temperature control under both fixed value mode and program mode.
- ▶ Fully programmable through the keyboard (9 programs/18 steps).
- ▶ Forced-air circulation provides uniformity of $\pm 0.5^\circ\text{C}$ @ 37°C .
- ▶ Audible and visible alarm on over temperature.
- ▶ Password protection against unauthorised access to all settings.
- ▶ Non-volatile memory retains preset parameters after an accidental power interruption.
- ▶ Large LCD display for easy parameters setting and fast readout.
- ▶ Inner glass door provides complete visibility to the chamber.
- ▶ Standard 2 grids included.

Model	ZXDP-B2050	ZXDP-B2080	ZXDP-B2160	ZXDP-B2270
Heat Mode	Direct Heat (With Gentle Circulation)			
Volume	50L	80L	160L	270L
Temperature	Ambient +5°C to 65°C			
Temp. Accuracy	± 0.1°C			
Temp. Uniformity	±0.5 @ 37°C			
Alarm	Enabled			
Timer	0 - 9999 mins			
Setting	Digital			
Display	LCD			
Grid Included	2 (max. 4)	2 (max. 4)	2 (max. 4)	2 (max. 4)
Grid Size(mm) (WxD)	330x345	380x395	480x495	530x595
Distance Between Grids (mm)	80	100	130	160
Inner Dimensions (mm) (WxDxH)	350x350x410	400x400x500	500x500x650	600x550x820
Exterior Dimensions (mm) (WxDxH)	470x520x785	520x570x880	620x670x1030	740x740x1280
Packing Dimensions (mm) (WxDxH)	550x610x960	600x660x1050	700x760x1210	830x850x1460
Net Weight	33/57 kg	40/73 kg	63/102 kg	90/140 kg
Power	200W	250W	380W	550W
Electricity	220-240V, 50/60 Hz			
Approval	CE, ISO			

Order Information

ZXDP-B2050	ZXDP-B2050, 50L, Direct Heat Incubator, A +5°C-65°C
ZXDP-B2080	ZXDP-B2080, 80L, Direct Heat Incubator, A +5°C-65°C
ZXDP-B2160	ZXDP-B2160, 160L, Direct Heat Incubator, A +5°C-65°C
ZXDP-B2270	ZXDP-B2270, 270L, Direct Heat Incubator, A +5°C-65°C
P9001	Grid Plate for ZXDP-B2050, S/S *
P9002	Grid Plate for ZXDP-B2080, S/S
P9004	Grid Plate for ZXDP-B2160, S/S
P9005	Grid Plate for ZXDP-B2270, S/S

* S/S: Stainless Steel



ZXDP-B2270

WATER JACKET Incubators



ZXGP-B2160



ZXGP incubators offer an economical incubation method for a variety of microorganism cultures with highly uniform temperature control. The processor of our incubators can store up to 9 programs-18 steps-into a “non-volatile” memory. Programs can be used for running multiple “ramp and soak” cycles up to 99 times. Of course the incubators can also be used as a constant (one) temperature incubator. With a triple wall construction and large volume of water, ZXGP Series Water Jacketed Incubators provide unsurpassed temperature stability and protection against heat loss. The water jacket technology holds the temperature for extended periods of time, which is critical during power failures. Under test conditions, the temperature initially drops at only 1°C per hour, and just 8.5°C in 10 hours, by contrast, on most direct heating models, which comes with 3.4°C and more than 15°C dropping instead.

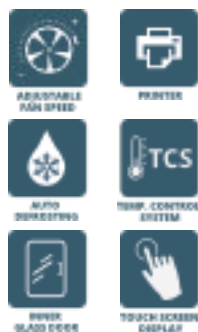
Model	ZXGP-B2080	ZXGP-B2160	ZXGP-B2270
Heat Mode	Water Jacket (With Gentle Circulation)		
Volume	80L	160L	270L
Temperature	Ambient +5°C to 65°C		
Temp. Accuracy	± 0.1°C		
Temp. Uniformity	±0.5 @ 37°C		
Alarm	Enabled		
Timer	0 - 9999 mins		
Setting	Digital		
Display	LCD		
Grid Included	2 (max. 3)	2 (max. 4)	2 (max. 4)
Grid Size(mm) (WxD)	380x395	480x495	580x595
Distance Between Grids (mm)	110	126	150
Inner Dimensions (mm) (WxDxH)	400x400x500	500x500x650	600x600x750
Exterior Dimensions (mm) (WxDxH)	560x525x870	660x625x1020	760x725x1120
Packing Dimensions (mm) (WxDxH)	680x645x1040	780x745x1190	880x845x1290
Net/Gross Weight	45/69 kg	78/105 kg	115/145 kg
Power	640W	1140W	1740W
Electricity	220-240V, 50/60 Hz		
Approval	CE, ISO		

Order Information

ZXGP-B2080	ZXGP-B2080, 80L, Water Jacket Incubator, A +5°C-65°C	P9007	Grid Plate for ZXGP-B2080, S/S
ZXGP-B2160	ZXGP-B2160, 160L, Water Jacket Incubator, A +5°C-65°C	P9008	Grid Plate for ZXGP-B2160, S/S
ZXGP-B2270	ZXGP-B2270, 270L, Water Jacket Incubator, A +5°C-65°C	P9009	Grid Plate for ZXGP-B2270, S/S



ZXSD-R1160



PREMIUM BOD Incubators



The Premium BOD Incubators of the ZXSD-R Series from LABWIT are designed to meet a variety of advanced experimental needs, ranging from BOD determination to incubation of micro-organism cultures, preservation of samples, Drosophila incubation and determination of enzymatic activities, to any applications that need incubation at close to ambient temperature or lower. It features a 4.3" TFT touch screen panel, which ensures clear indication as well as easy operations. Each of the four models has a wide temperature range from ambient -18°C (minimum 4°C) to 65°C and can be operated at a single user defined temperature, but can also be programmed with up to 9 different temperature segments within a time frame (18 steps). The (cooling) compressor runs continuously and the control is done through a solenoid valve for more precise temperature control if lower than ambient temperatures are required.

- ▶ P.I.D. microprocessor ensures the precision of temperature control under both fixed value mode and programmable mode.
- ▶ 4.3" TFT touch screen panel displays all parameters, easy operation and readout for all control modes.
- ▶ Three-dimensional airflow system ensures fast response, and high uniformity of $\pm 0.5^{\circ}\text{C}$ @ 37°C .
- ▶ Sound cooling system with CFC free refrigerant, ozone layer friendly.
- ▶ Automatic defrosting: only minimal ice formation and very low heat discharge into working area occurs the unit can continue operating when defrosting.
- ▶ Real-time electronic timer from 0 to 9999 mins.
- ▶ 3 steps adjustable fan speed, offering more precisely controlled environment of incubation, without concerns of media or samples drying out.
- ▶ Non-volatile memory retains pre-set parameters in case of power interruption.
- ▶ Triple safety protections for samples, incubator and environment.
- ▶ Independent device for over temperature, high current flow and electric leakage.
- ▶ Standard configuration includes a double layer tempered glass observe window in outer door, an inner glass door, forced air circulation, a fluorescent lamp, $\varnothing 50\text{mm}$ access port and 2 grids, built-in printer.
- ▶ Optional UV Lamp, RS-232, RS-485 interface available.

Model	ZXSD-R1090	ZXSD-R1160	ZXSD-R1270	ZXSD-R1430
Volume	90L	160L	270L	430L
Door Type	Outer door with observation window, and heat resistance glass inner door			
Temp. Range	4°C to 65°C			
Temp. Accuracy	± 0.1°C			
Temp. Uniformity	± 0.5 @ 37°C			
Alarm	Enabled			
Timer	0 - 9999 mins			
Settings	Digital			
Display	4.3" TFT Touch Screen			
Grids Included	2 (Max. 11)	2 (Max. 15)	2 (Max. 18)	2 (Max. 25)
Grid Size (mm) (WxD)	310x356	410x456	513x556	555x656
Inner Dimensions (mm) (WxDxH)	400x410x550	500x500x650	600x600x750	700x645x950
Exterior Dimensions (mm) (WxDxH)	550x620x1280	630x740x1380	750x840x1480	840x880x1680
Packing Dimensions (mm) (WxDxH)	630x710x1440	730x820x1560	830x930x1660	940x980x1860
Net/Gross Weight	68/112 kg	98/155 kg	153/203 kg	180/240 kg
Power	710W	860W	950W	1350W
Electricity	220-240V, 50/60 Hz			
Approval	CE, ISO			

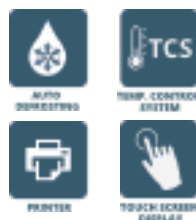
Order Information

ZXSD-R1090	ZXSD-R1090, 90L, Premium Cooled BOD Incubator, 4°C-65°C
ZXSD-R1160	ZXSD-R1160, 160L, Premium Cooled BOD Incubator, 4°C-65°C
ZXSD-R1270	ZXSD-R1270, 270L, Premium Cooled BOD Incubator, 4°C-65°C
ZXSD-R1430	ZXSD-R1430, 430L, Premium Cooled BOD Incubator, 4°C-65°C
P5016	RS-485 Interface
P5021	RS-232 Interface
P5022	UV Lighting, 8W, for ZXSD/ZXSP Series
P9010	Grid Plate for ZXSD-B1090, ZXSD-R1090, S/S *
P9011	Grid Plate for ZXSD-B1160, ZXSD-R1160, S/S
P9012	Grid Plate for ZXSD-B1270, ZXSD-R1270, S/S
P9013	Grid Plate for ZXSD-B1430, ZXSD-R1430, S/S

* S/S: Stainless Steel



ZXSD-R1160



ZXSP-R0270

PREMIUM LOW TEMPERATURE Incubators



The LABWIT Premium Incubators ZXSP-R Series feature advanced cooling system as well as more engineered structure design which make it possible to cool down as low as -10°C.

Both the interior and exterior are made of robust materials for lifetime operations. The inner chamber is made of high quality #304 stainless steel sheets, with 4 round covered corners. All exposed edges are de-burred to insure no sharp edges. The exterior is cold rolled steel finished with powder coated polyurethane finish, which is resistant to most chemicals and easily cleaned with mild household detergents.

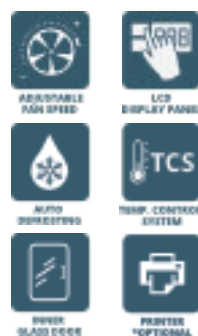
- ▶ Gas tight and high density insulated outer door without glass window ensures excellent chamber insulation even when running at minus temperatures.
- ▶ P.I.D. microprocessor ensures the precision of temperature control under both fixed value mode and program mode.
- ▶ 4.3" TFT touch screen panel displays all parameters, easy operation and readout for all control modes.
- ▶ Three-dimensional heating system ensures fast response, and high uniformity of $\pm 0.5^{\circ}\text{C}$ @ 37°C .
- ▶ Air tight outer door design ensures optimised insulation, achieving the best temperature controlling performance under low temperature setpoint.
- ▶ Optional UV Lamp, RS-232, RS-485 interface available.
- ▶ Sound cooling system with CFC free refrigerant and automatic defrosting system ensure long term operation at low temperature setpoint without frosting issue.
- ▶ Real-time electronic timer from 0 to 9999 mins.
- ▶ Non-volatile memory retains pre-set parameters in case of power interruption.
- ▶ Triple safety protections for samples, incubator and environment.
- ▶ Independent device for over temperature, high current flow and electric leakage.
- ▶ Standard configuration includes forced air circulation, a fluorescent lamp, $\varnothing 50\text{mm}$ access port and 2 grids, built-in printer.
- ▶ No inner glass door is included.

Model	ZXSP-R0160	ZXSP-R0270	ZXSP-R0430
Volume	160L	270L	430L
Door Type	Single door with high-density insulation		
Temp. Range	-10°C to 65°C		
Temp. Accuracy	±0.1°C		
Temp. Uniformity	±0.5 @ 37°C		
Alarm	Enabled		
Timer	0 - 9999 mins		
Settings	Digital		
Display	4.3" TFT Touch Screen		
Grid size (mm) (WxD)	380x456	477x556	513x656
Grids No.	2 (Max.15)	2 (Max. 18)	2 (Max. 25)
Inner dimensions (mm) (WxDxH)	500x500x650	600x600x750	700x645x950
Exterior dimensions (mm) (WxDxH)	650x680x1380	750x780x1480	850x820x1680
Packing dimensions (mm) (WxDxH)	770x820x1590	830x930x1660	940x980x1860
Net/Gross Weight	100/160 kg	153/190 kg	180/240 kg
Power	860W	950W	1350W
Electricity	220/240V, 50/60 Hz		
Approval	CE, ISO		

Order Information

ZXSP-R0160	ZXSP-R0160, 160L, Premium Low Temperature BOD Incubator, -10°C to 65°C
ZXSP-R0270	ZXSP-R0270, 270L, Premium Low Temperature BOD Incubator, -10°C to 65°C
ZXSP-R0430	ZXSP-R0430, 430L, Premium Low Temperature BOD Incubator, -10°C to 65°C
P5016	RS-485 Interface
P5021	RS-232 Interface
P5022	UV Lighting, 8W, for ZXSD/ZXSP Series
P9030	Grid Plate for ZXSP-R0160, S/S
P9031	Grid Plate for ZXSP-R0270, S/S
P9032	Grid Plate for ZXSP-R0430, S/S

※ S/S: Stainless Steel



ECONOMIC BOD Incubators

ZXSD-B1160



The BOD incubators of the ZXSD-B Series from LABWIT are designed to meet a variety of advanced experimental needs, ranging from BOD determination to incubation of micro-organism cultures, preservation of samples, Drosophila incubation and determination of enzymatic activities. All these applications require precise and constant temperature control. Each of the four models has a wide temperature range from ambient -18 °C (minimum 4°C) to 65 °C and can be operated at a single user defined temperature, but can also be programmed with up to 9 different temperature segments within a time frame. (18 steps). The (cooling) compressor runs continuously and the control are done through a solenoid valve for more precise temperature control if lower than ambient temperatures are required.

ZXSD-B Series BOD incubators also feature a back-up program in case of power failures, the stored parameters remain in the memory of the microprocessor. Your experiment therefore resumes under the same conditions even when interrupted by an interruption of power.

- ▶ P.I.D. microprocessor ensures the precision of temperature control under both fixed value mode and program mode.
- ▶ Large blue LCD display for temperature diagram, easy readout for program control.
- ▶ Three-dimensional heating system ensures fast response, and high uniformity of $\pm 0.5^{\circ}\text{C}$ @ 37°C .
- ▶ Sound cooling system with CFC free refrigerant.
- ▶ Automatic defrosting: only minimal ice formation and very low heat discharge into working area occurs the unit can continue operating when defrosting.
- ▶ 3 steps adjustable fan speed, offering more precisely controlled environment of incubation, without concerns of media or samples drying out.
- ▶ Real-time electronic timer from 0 to 9999 mins.
- ▶ Password protection of all parameters against unauthorised access.
- ▶ Non-volatile memory retains pre-set parameters in case of power interruption.
- ▶ Triple safety protections for samples, incubator and environment.
- ▶ Independent device for over temperature, high current flow and electric leakage.
- ▶ Standard configurations; a double layer tempered glass observe window in outer door, an inner glass door, forced air circulation, a fluorescent lamp, $\varnothing 50\text{mm}$ access port and 2 grids.
- ▶ Optional built-in printer, UV Lamp, RS-232 interface available.

Model	ZXSD-B1090	ZXSD-B1160	ZXSD-B1270	ZXSD-B1430
Volume	90L	160L	270L	430L
Door Type	Outer door with observation window, and heat resistance glass inner door			
Temp. Range	4°C to 65°C			
Temp. Accuracy	±0.1°C			
Temp. Uniformity	±0.5 @ 37°C			
Alarm	Enabled			
Timer	0 - 9999 mins			
Settings	Digital			
Display	LCD			
Grids Included	2 (Max. 11)	2 (Max. 15)	2 (Max. 18)	2 (Max. 25)
Grid Size (mm) (WxD)	310x356	410x456	513x556	555x656
Inner Dimensions (mm) (WxDxH)	400x410x550	500x500x650	600x600x750	700x645x950
Exterior Dimensions (mm) (WxDxH)	550x555x1280	630x740x1380	750x840x1480	840x880x1680
Packing Dimensions (mm) (WxDxH)	630x710x1440	730x820x1560	830x930x1660	940x980x1860
Net/Gross Weight	68/112 kg	98/155 kg	153/203 kg	180/240 kg
Power	710W	860W	950W	1350W
Electricity	220-240V, 50/60 Hz			
Approval	CE, ISO			

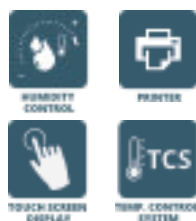
Order Information

ZXSD-B1090	ZXSD-B1090, 90L, Economic Cooled BOD Incubator, 4°C-65°C
ZXSD-B1160	ZXSD-B1160, 160L, Economic Cooled BOD Incubator, 4°C-65°C
ZXSD-B1270	ZXSD-B1270, 270L, Economic Cooled BOD Incubator, 4°C-65°C
ZXSD-B1430	ZXSD-B1430, 430L, Economic Cooled BOD Incubator, 4°C-65°C
P5016	RS-485 Interface
P5021	RS-232 Interface
P5022	UV Lighting, 8W, for ZXSD/ZXSP Series
P9010	Grid Plate for ZXSD-B1090, ZXSD-R1090, S/S *
P9011	Grid Plate for ZXSD-B1160, ZXSD-R1160, S/S
P9012	Grid Plate for ZXSD-B1270, ZXSD-R1270, S/S
P9013	Grid Plate for ZXSD-B1430, ZXSD-R1430, S/S

* S/S: Stainless Steel



ZXSD-B1160



ZXMP-R1150



PREMIUM HUMIDITY Incubators



Like all LABWIT equipment, the premium humidity incubators have been designed to provide one of the highest quality standards of performance with matching microprocessor technology, precise temperature control and humidity control system combining state-of-the-art technology with years of design, quality and manufacturing experience. The ZXMP-R Series of Humidity Incubators are specialised in a variety of critical experiments, such as analysis of water, BOD tests, incubation of tissue cell, germs and other micro-organism, and so on. To achieve this, the LABWIT control electronics is in place to service the precise control requirements of the chamber's environment, providing optimum programmable conditions for culture growth.

Each model has a wide temperature range from 4°C to 65°C, with relative humidity control from 40 to 90% RH, which can be operated at a single user defined temperature and relative humidity, but can also be programmed with up to 9 different temperature/ humidity segments within a time frame. (18 steps)

- ▶ P.I.D. microprocessor ensures the precision of temperature and humidity control under both fixed value mode and temperature control under programmable mode.
- ▶ 4.3" TFT touch screen panel displays all parameters, easy operation and readout for all control modes.
- ▶ The humidification system features 140°C steam direct injection into the chamber with quality humidity sensor. Maintenance of the water tank can be easily performed from the side and back. The water level in the tank can be checked by looking through the central viewing window.
- ▶ Tempered inner glass window provides a clear view of samples in the chamber.
- ▶ Three dimensional heating system ensures fast response, and high uniformity of $\pm 0.5^{\circ}\text{C}$ @ 37°C .
- ▶ Real time electronic timer from 0 to 9999 mins.
- ▶ Heated outer door and chamber perimeter take care of the coldest spots, minimises the formation of condensation.
- ▶ Sound cooling system with CFC free refrigerant and automatic defrosting system.
- ▶ Non-volatile memory retains pre-set parameters in case of power interruption.
- ▶ All shelves, shelf supports and guide rails are easily removable and can be autoclaved to remove contamination.
- ▶ Independent device for over temperature, high current flow and electric leakage.
- ▶ Standard 2 grids & built-in printer included, optional RS-485 interface available.

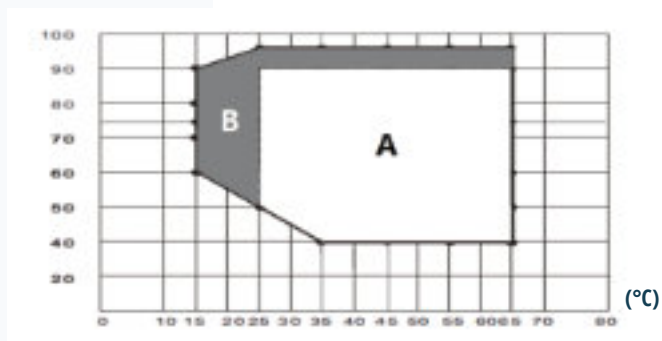
Model	ZXMP-R1150	ZXMP-R1230	ZXMP-R1430
Volume	150L	230L	430L
Temp. Range	4°C to 65°C		
Temp. Accuracy	±0.1°C		
Temp. Uniformity	±0.5 @ 37°C		
Humidity Range (%RH)	40-90		
Humidity Accuracy (%RH)	0.1		
Humidity Uniformity (%RH)	±5		
Alarm	Enabled		
Timer	0 - 9999 mins		
Settings	Digital		
Display	LCD		
Grids Included	2 (Max 13)	2 (Max 15)	2 (Max 23)
Grid size (mm) (WxD)	360x456	465x556	528x658
Inner dimensions (mm) (WxDxH)	500x450x650	600x550x700	700x618x950
Exterior dimensions (mm) (WxDxH)	628x728x1380	728x828x1480	828x895x1682
Packing dimensions (mm) (WxDxH)	730x820x1570	830x930x1650	940x980x1860
Net/Gross Weight	105/158 kg	130/205 kg	180/240 kg
Power	1500W	1600W	2500W
Electricity	220-240V, 50/60 Hz		
Approval	CE, ISO		

Order Information

ZXMP-R1150	ZXMP-R1150, 150L, Premium Humidity Incubator, 4°C-65°C, 40-90%RH
ZXMP-R1230	ZXMP-R1230, 230L, Premium Humidity Incubator, 4°C-65°C, 40-90%RH
ZXMP-R1430	ZXMP-R1430, 430L, Premium Humidity Incubator, 4°C-65°C, 40-90%RH
P9014	Grid Plate for ZXMP-R1150, S/S *
P9015	Grid Plate for ZXMP-R1230, S/S
P9016	Grid Plate for ZXMP-R1430, S/S

* S/S: Stainless Steel

Temperature & Humidity Control Range (%RH)



A: Guaranteed working range

B: Recommended Time-limited operation (max. 24 hours)



Humidification System Tank

PREMIUM Plant Growth Chamber



ZXLP-R1270

The LABWIT ZXLP Plant Growth Chambers are available in four models, offering precise control of temperature, and light. They feature LED light panels with multiple colour options, configured on three sides: the outer door and two sidewalls. The LED lighting system is customizable to suit your application, with a wavelength range from less than 400nm to 700nm, ideal for strong vegetative and generative growth, enhancing vernalization, and providing a broad sun-like spectrum for research and biotech application.

Available in sizes from 90L to 430L internal capacity, these chambers are designed to occupy minimal floor space, optimising your laboratory's layout. The 4.3-inch touch screen interface facilitates easy programming with alarms and non-volatile memory, and includes a built-in printer.

LABWIT is dedicated to environmentally efficient design, using cutting-edge green technologies for proven cost savings and energy efficiency. The chambers are insulated with CFC-free polyurethane foam, ensuring high thermal retention and reducing the load on your lab's HVAC systems.

A variety of options and accessories allow you to customize the chambers to your specific needs. Popular options include programmable/dimmable LED light panels available in Cool White, Warm White, Red (660nm), and Blue (420nm) dual lighting, extra grid plates, and RS485 options.

- ▶ P.I.D. microprocessor ensures the precision of operational parameters control under both fixed value mode and program mode.
- ▶ 4.3" TFT touch screen panel displays all parameters, easy operation and readout for all control modes.
- ▶ LED lighting panel system features fully adjustable lighting output between 0-100%, in application up to 500µmol/m/s subject to light source selection.
- ▶ Light intensity control programmable for day/night photoperiods.
- ▶ Light intensity control programmable for day/night photoperiods.
- ▶ 3D airflow circulation assuring an optimal temperature uniformity of $\pm 1.0^{\circ}\text{C}@37^{\circ}\text{C}$, also through multi stepped growth surfaces, reducing tension between plants.
- ▶ Light configuration available from front door, side walls.
- ▶ Stainless steel internal construction with powder coated steel external surfaces.
- ▶ Internal glass door allows users to visually located required samples, minimising door opening times allowing rapid return to set conditions.
- ▶ Sound cooling system with CFC free refrigerant and automatic defrosting system.
- ▶ Real-time electronic timer from 0 to 9999 mins.
- ▶ Non-volatile memory retains pre-set parameters in case of power interruption.
- ▶ All shelves, shelf supports and guide rails are easily removable and can be autoclaved to remove contamination.

Model	ZXLP-R1090	ZXLP-R1160	ZXLP-R1270	ZXLP-R1430
Volume	90L	160L	270L	430L
Door Type	Solid outer door with heat resistance glass inner door			
Control Panel	4.3" TFT Touch Screen			
Noise Level	<55 dB (1m above floor)			
Data Logging	Built-in Printer			
Grids Included	2 (Max. 11)	2 (Max. 15)	2 (Max. 18)	2 (Max. 25)
Grid Size (mm)	310 x 356	410 x 456	513 x 556	555 x 656
Inner Dimensions (mm) (WxDxH)	400 x 410 x 550	500 x 500 x 650	600 x 600 x 750	700 x 645 x 950
Exterior Dimensions (mm) (WxDxH)	550 x 620 x 1280	630 x 740 x 1380	750 x 840 x 1480	840 x 880 x 1680
Packing Dimensions (mm) (WxDxH)	620 x 690 x 1440	700 x 810 x 1540	820 x 910 x 1640	910 x 950 x 1840
Net/Gross Weight	68/108 kg	98/145 kg	130/180 kg	180/220 kg
Power	710W	860W	950W	1350W
Standard	Built-in printer, Fluorescent Lamp			
Options	LED Lighting System, UV Lamp, RS-485 Interface			
Electricity	220-240V, 50/60 Hz			
Approval	CE			
	Temperature			
Temp. Range	4°C-65°C			
Temp. Accuracy	±0.1°C			
Temp. Uniformity	±1.0°C @ 37°C			
Principle of Sensor	PT100			
Control Mode	Fixed Value & Program			
Cooling System	Auto-Defrosting, Automated			

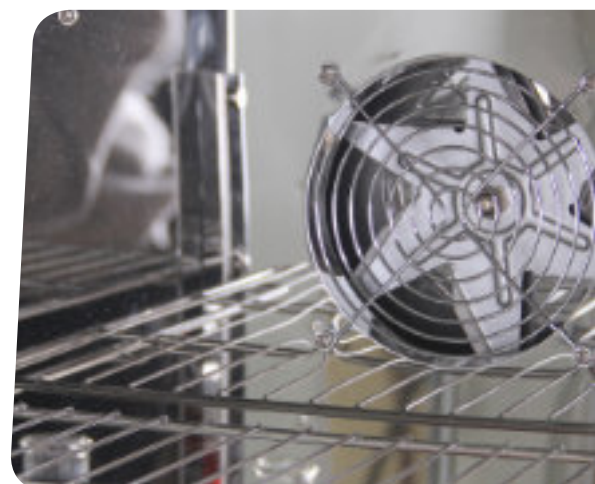
LED Lighting System (Option)

	Red & Blue Dual	Warm White	Cool White Mono
Light Type	LED, 50% Red, 50% Blue	LED, 100% Warm White	LED, 100% Cool White
Spectrum	Red: 640-660nm, Blue: 430-450nm	4000k: 400-700nm	6500k: 400-700nm
Light Intensity	Up to 700μmol/(m²*s)	Up to 650μmol/(m²*s)	Up to 450μmol/(m²*s)
Control	Yes, Individually, from 0-100% output	Yes, from 0-100% output	Yes, from 0-100% output
Control Mode	Fixed Value & Programmable		

Order Information

ZXLP-R1090	90L, Premium Plant Growth Chamber, 4°C-65°C
ZXLP-R1160	160L, Premium Plant Growth Chamber, 4°C-65°C
ZXLP-R1270	270L, Premium Plant Growth Chamber, 4°C-65°C
ZXLP-R1430	430L, Premium Plant Growth Chamber, 4°C-65°C
P5016	RS-485 Interface
P5022	UV Lighting, 8W, for ZXSD/ZXSP Series
P5048RB-90	LED Lighting Panel, For ZXLP-R1090, Red & Blue
P5048RB-160	LED Lighting Panel, For ZXLP-R1160, Red & Blue
P5048RB-270	LED Lighting Panel, For ZXLP-R1270, Red & Blue
P5048RB-430	LED Lighting Panel, For ZXLP-R1430, Red & Blue

P5048CW-90	LED Lighting Panel, For ZXLP-R1090, Cool White
P5048CW-160	LED Lighting Panel, For ZXLP-R1160, Cool White
P5048CW-270	LED Lighting Panel, For ZXLP-R1270, Cool White
P5048CW-430	LED Lighting Panel, For ZXLP-R1430, Cool White
P5048WW-90	LED Lighting Panel, For ZXLP-R1090, Warm White
P5048WW-160	LED Lighting Panel, For ZXLP-R1160, Warm White
P5048WW-270	LED Lighting Panel, For ZXLP-R1270, Warm White
P5048WW-430	LED Lighting Panel, For ZXLP-R1430, Warm White
P9010	Grid Plate for ZXSD-B1090, ZXSD-R1090, S/S※
P9011	Grid Plate for ZXSD-B1160, ZXSD-R1160, S/S
P9012	Grid Plate for ZXSD-B1270, ZXSD-R1270, S/S



ZXFD-B5140

DRYING Oven



ZXRD-B5110



ZXRD-A7140

The LABWIT forced air drying ovens are engineered for your daily work, from routing simple glassware drying sterilisation applications up to 200°C or 300°C, to the complex, controlled heating applications, for example, ageing, bonding, curing, heat treat annealing, stress relieving, burn-in, hardening test purposes.

LABWIT provide ovens with two optional heating modes, ZXRD Series Back Heating and ZXFD Series Bottom Heating. Both ranges are designed to provide accurate temperature uniformity, with minimized temperature overshoot. For all 200°C models, the ovens are equipped with LCD control panel and can be programmed to run up to 9 different programs with 18 steps of temperatures and time segments.

- ▶ Forced-air convection and three-dimensional heating systems ensure air circulation and heat distribution.
- ▶ Options of back or bottom heating models, up to 200°C and 300°C.
- ▶ PID Microprocessor controller with 9 segments and 18 steps, only on 200°C models.
- ▶ Large LCD display on 200°C models, and LED display on 300°C models.
- ▶ Argon-filled multiple glazed tempered safety glass window, 2 glazing for 200°C models and 3 glazing for 300°C models, optimises sample monitoring as well as minimise heat losses.
- ▶ Electro-polished stainless steel inner chambers and round corners for easy cleaning and better air circulation.
- ▶ Safe protections: over-temperature limit protection, separate over-current fuses, trip switching protection over electric leakage.
- ▶ Non-volatile memory retains pre-set parameters in case of power interruption.
- ▶ Standard wheel casters available on all models of 210L and above in volume.
- ▶ Adjustable electro-polished stainless steel shelving provides air flow around samples for uniformed tempering and allow for easy cleaning.
- ▶ 2 grids included as standard.



Air Tight Door

- Hermetic door closure system for optimal air tightness and minimal heat loss.
- “Push & Catch” design, easy to grip and operate.

Adjustable Air Vent

- Adjustable air vent for discharge of humidity evaporation.
- Adjusting knob located on side wall for easy access.
- Air vent located on the back wall.

Convenient Working Environment

- Complete stainless steel inner chamber.
- Low heat dissipation due to 50mm high density insulation.
- 2 shelves included as standard.

Specifications of ZXRD (Back Heating)

Model	ZXRD-B5055	ZXRD-B5110	ZXRD-B5210	ZXRD-A7080	ZXRD-A7140	ZXRD-A7230
Volume	55L	110L	210L	80L	140L	230L
Heating Mode	Back Heating					
Programmable Control (9 Segment/18 steps)	Standard					
Temp. Range	Ambient +5°C to 200°C			Ambient +5°C to 300°C		
Temp. Accuracy	± 0.1°C					
Temp. Uniformity (%)	< ± 2.5% (@max. temperature)					
Temp. Fluctuation	± 1.0°C					
Display	LCD			LED		
Alarm	Enabled					
Timer (min)	0 - 9999 mins					
Settings	Digital					
Grids Included	2 (max 10)	2 (max 16)	2 (max 19)	2 (max 13)	2 (max 17)	2 (max 21)
Grid Size (mm) (WxD)	285x295	335x375	455x485	319x330	385x405	475x485
Distance Between Grids (mm)	30					
Chamber Dimensions (mm) (WxDxH)	330x345x450	420x385x650	500x535x750	375x365x550	450x440x685	520x540x800
Exterior Dimensions (mm) (WxDxH)	520x525x860	610x565x1060	690x720x1240	565x495x960	640x570x1095	720x670x1290
Packing Dimensions (mm) (WxDxH)	600x610x1020	690x665x1230	770x820x1400	650x590x1130	720x670x1255	800x720x1450
Net/Gross Weight	50/71 kg	61/104 kg	98/143 kg	58/98 kg	70/104 kg	104/150 kg
Power	1300W	2100W	2400W	2100W	2300W	2700W
Electricity	220-240V, 50/60 Hz					
Approval	CE, ISO					

Specifications of ZXFD (Bottom Heating)

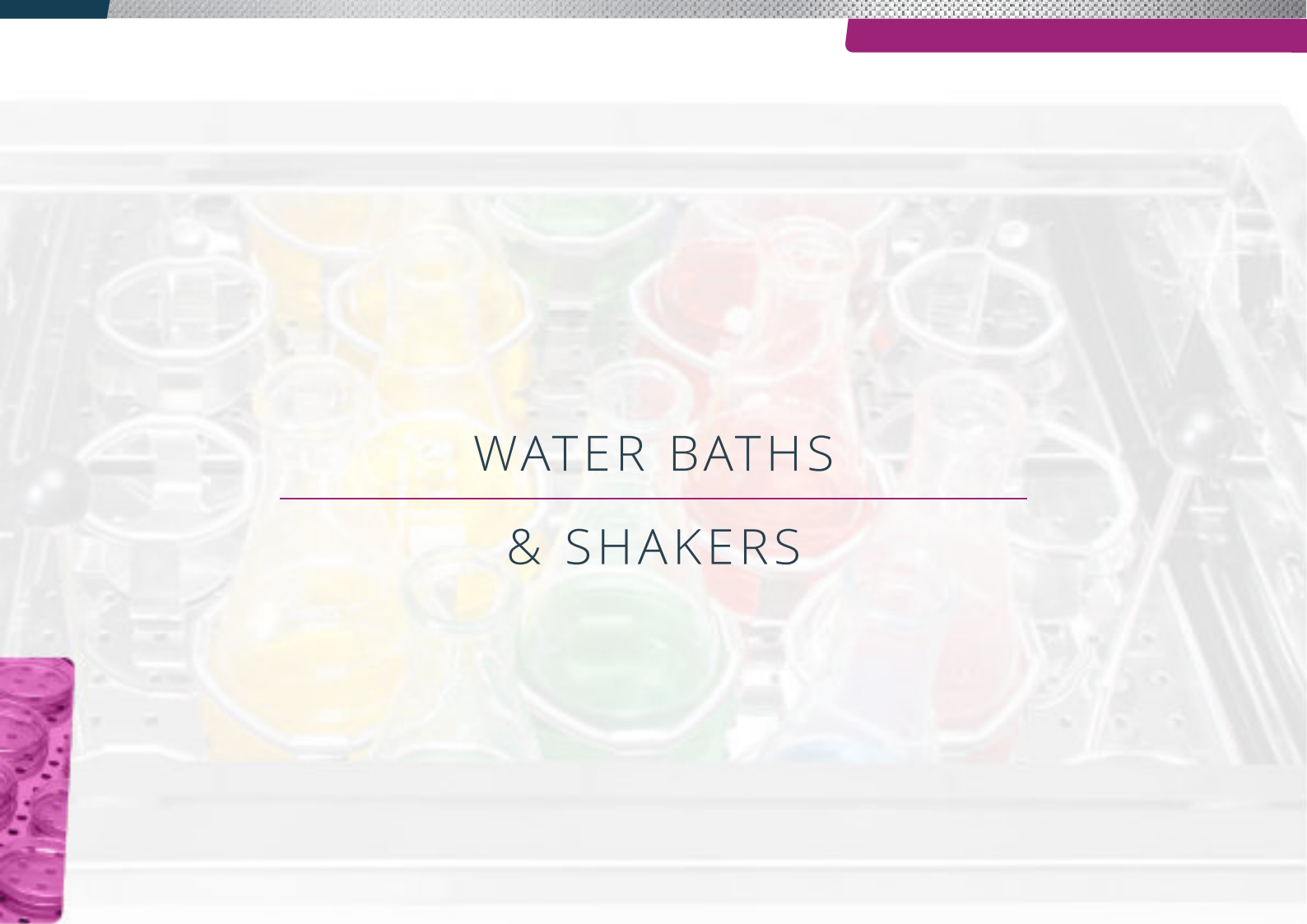
Model	ZXFD-B5090	ZXFD-B5140	ZXFD-B5250	ZXFD-B5430	ZXFD-B5600
Volume	90L	140L	250L	430L	600L
Heating Mode	Bottom Heating				
Programmable Control (9 Segment/18 steps)	Yes, Standard				
Temp. Range	A +5°C to 200°C				
Temp. Accuracy	± 0.1°C				
Temp. Uniformity (%)	< ± 2.5% (@max. temperature)				
Temp. Fluctuation	± 1.0°C				
Display	LCD				
Alarm	Enabled				
Timer (min)	0 - 9999 mins				
Settings	Digital				
Grids Included	2 (Max 4)	2 (Max 5)	2 (Max 6)	2 (Max 8)	2 (Max 8)
Grid Size (mm) (WxD)	389×393	413×493	493×595	596×694	725×789
Distance Between Grids (mm)	90	95	105	105	110
Chamber Dimensions (mm) (WxDxH)	400x430x485	500x455x600	600x535x750	700x635x950	800x766x1000
Exterior Dimensions (mm) (WxDxH)	585x610x895	685x635x1010	790x720x1240	890x820x1440	990x950x1495
Packing Dimensions (mm) (WxDxH)	655x680x1055	755x705x1170	860x790x1400	960x890x1600	1060x1020x1655
Net/Gross Weight	55/81 kg	80/115 kg	108/145 kg	170/210 kg	210/255 kg
Power	1500W	2100W	2500W	2700W	2900W
Electricity	220-240V, 50/60 Hz				
Approval	CE, ISO				

Order Information

ZXRD-B5055	ZXRD-B5055, 55L, Back Heating Oven, A +5°C-200°C
ZXRD-B5110	ZXRD-B5110, 110L, Back Heating Oven, A +5°C-200°C
ZXRD-B5210	ZXRD-B5210, 210L, Back Heating Oven, A +5°C-200°C
ZXRD-A7080	ZXRD-A7080, 80L, Back Heating Oven, A +5°C-300°C
ZXRD-A7140	ZXRD-A7140, 140L, Back Heating Oven, A +5°C-300°C
ZXRD-A7230	ZXRD-A7230, 230L, Back Heating Oven, A +5°C-300°C
ZXFD-B5090	ZXFD-B5090, 90L, Bottom Heating Oven, A +5°C-200°C
ZXFD-B5140	ZXFD-B5140, 140L, Bottom Heating Oven, A +5°C-200°C
ZXFD-B5250	ZXFD-B5250, 250L, Bottom Heating Oven, A +5°C-200°C
ZXFD-B5430	ZXFD-B5430, 430L, Bottom Heating Oven, A +5°C-200°C
ZXFD-B5600	ZXFD-B5600, 600L, Bottom Heating Oven, A +5°C-200°C

※ S/S: Stainless Steel

P9018	Grid Plate for ZXRD-B5055, S/S
P9019	Grid Plate for ZXRD-B5110, S/S
P9020	Grid Plate for ZXRD-B5210, S/S
P9021	Grid Plate for ZXRD-A7080, S/S
P9022	Grid Plate for ZXRD-A7140, S/S
P9023	Grid Plate for ZXRD-A7230, S/S
P9025	Grid Plate for ZXFD-B5090, S/S
P9026	Grid Plate for ZXFD-B5140, S/S
P9027	Grid Plate for ZXFD-B5250, S/S
P9028	Grid Plate for ZXFD-B5430, S/S
P9029	Grid Plate for ZXFD-B5600, S/S



WATER BATHS & SHAKERS

General water baths and water bath shakers are diffusely useful in chemical industry, biology, pharmacy, environmental protection, hygiene and disease control, academies and other science research and producing areas.

LABWIT offers comprehensive range of water baths & shakers which combine unmatched reliability and durability for your laboratory applications. It delivers superior temperature control and uniformity. Bath temperature is controlled to an accuracy of $\pm 0.1^{\circ}\text{C}$ by a P.I.D microprocessor controller for optimum, reproducible bath conditions.



ZSXH-618



WATER Baths



ZSQ-3



ZSBB-712



ZSBB-726

LABWIT offers a comprehensive range of water bath choices, units are categorised by capability of circulation and various sizes.

Circulating Water Bath

LABWIT circulating water baths are ideal for applications where temperature uniformity and control are crucial, such as enzymes and serology. These high performance baths range in capacity 18 and 25 litres and include a stainless steel diffuser shelf and a hinged gable cover as standard equipment.

- ▶ Water bath temperature is monitored and controlled over the entire range of ambient up to 99.9°C with an accuracy of $\pm 0.1^\circ\text{C}$ with P.I.D temperature controller.
- ▶ Circulating pump direct water flows around bath perimeter for fast heating and better uniformed temperature control, $\pm 0.2^\circ\text{C}$ @ 37°C .
- ▶ Easy-to-maintain stainless steel interior chamber and powder-coated exterior resist most corrosion and chemical damages.

- ▶ Easy-to-read LED digital display provides a user-friendly interface which helps minimise errors in establishing running conditions.
- ▶ Non-volatile memory retains preset parameters during a power failure and restarts unit automatically after the power is restored.
- ▶ Electro-polished SUS304 stainless steel hinged gable lid to prevent dust penetration, uncontrolled heat dissipation as well as water evaporation.
- ▶ Low water level alarm.
- ▶ Anti-drying function.
- ▶ Fitted with drain valve.

Non Circulating Water Baths

- ▶ Available in four different models, range in numbers of well compartment from 2 to 8 including a stainless steel diffuser shelf.
- ▶ Precise temperature control up to 99.9°C.
- ▶ Water bath temperature is monitored and controlled over the entire range with an accuracy of $\pm 0.1^\circ\text{C}$ with P.I.D temperature controller.
- ▶ Easy-to-maintain stainless steel interior chamber and powder-coated exterior resist most corrosion and chemical damages.
- ▶ Easy-to-read LED digital display provides a user-friendly interface which helps minimise errors in establishing running conditions.
- ▶ Non-volatile memory retains preset parameters during a power failure and restarts unit automatically after the power is restored.
- ▶ Standard ring set to prevent dust penetration, uncontrolled heat dissipation as well as water absorption.
- ▶ Low water level alarm.
- ▶ Anti-drying function.
- ▶ Fitted with drain valve.

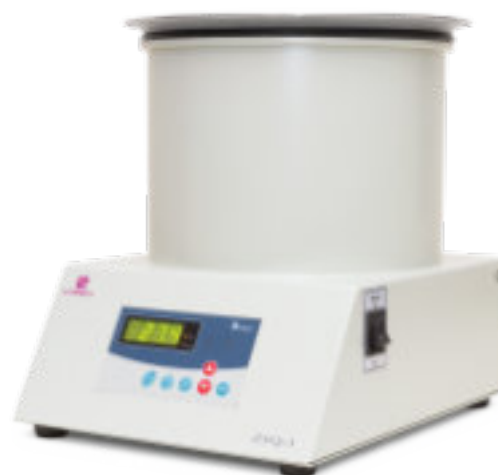


ZSBB-728



Personal Mini Water Baths

- ▶ Personal sized tank of 4.6L.
- ▶ Stainless steel interior tank and powder coated corrosion resistant exterior case.
- ▶ Easy-to-read LED digital display provides a user-friendly interface which helps minimise errors in establishing running conditions.
- ▶ High precision temperature sensor probe.
- ▶ Precise temperature control with P.I.D microprocessor controller.
- ▶ High-density insulation minimises heat losses.
- ▶ Electro-polished perforated diffuser made of SUS304 stainless steel as standard.



ZSQ-3

Model	ZSQ-3	ZSBB-712	ZSBB-724	ZSBB-726	ZSBB-728	ZSXH-618	ZSXH-625
Volume	4.6L	8L	16L	24L	32L	18L	25L
Temperature	Ambient - 99.9°C						
Control	P.I.D Microprocessor						
Temp. Accuracy	±0.1°C						
Circulation Pump	No					Yes	
Temp. Uniformity	±0.5 @ 37°C					±0.2 @ 37°C	
Lid	None	Ring Set				Gable Lid	
Compartments	1	2x1	2x2	3x2	4x2	1	
Timer	1 - 99 hours, 59 mins						
Setting	Digital						
Display	LED						
Power	500W	500W	1000W	1500W	2000W	1500W	2000W
Tank Dimensions (mm) (WxDxH)*	Ø200x150	320x160x160	320x320x160	480x320x160	640x320x160	350x300x225	400x320x250
Exterior Dimensions (mm) (WxDxH)*	320x260x300	575x225x235	575x385x235	735x385x235	895x385x235	735x365x385	785x385x420
Packing dimensions (mm) (WxDxH)	420x350x420	645x295x395	645x455x395	805x455x395	965x455x395	840x430x540	890x450x575
Net/Gross Weight	6/13 kg	8/13 kg	14/21 kg	20/29 kg	22/33 kg	22/32 kg	28/40 kg
Electricity	220/240V, 50/60 Hz						
Approval	CE, ISO						

* Tank height includes perforated diffuser height of 50mm.

Order Information

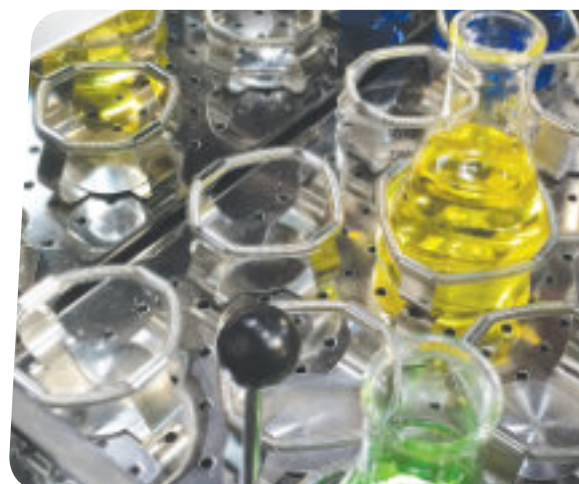
ZSQ-3	ZSQ-3, 4.6L Water Bath, 1, A-99.9°C
ZSBB-712	ZSBB-712, 8L Water Bath, 2 x 1, A-99.9°C
ZSBB-724	ZSBB-724, 16L Water Bath, 2 x 2, A-99.9°C
ZSBB-726	ZSBB-726, 24L Water Bath, 3 x 2, A-99.9°C
ZSBB-728	ZSBB-728, 32L Water Bath, 4 x 2, A-99.9°C
ZSXH-618	ZSXH-618, 18L Water Bath, With Pump & Gable Lid, A-99.9°C
ZSXH-625	ZSXH-625, 25L Water Bath, With Pump & Gable Lid, A-99.9°C
P4011	Gable Lid for ZSBB-712, S/S
P4012	Gable Lid for ZSBB-724, S/S
P4013	Gable Lid for ZSBB-726, S/S
P4014	Gable Lid for ZSBB-728, S/S

ZSBB-724





ZWY-110X30



RECIPROCAL SHAKING Water Baths



ZWY-110X50

The latest ZWY-110X Series reciprocal water bath shaker combines unmatched reliability and durability. It delivers superior temperature control and uniformity with a smooth shaking motion. Bath temperature is controlled to an accuracy of $\pm 0.1^{\circ}\text{C}$ by a P.I.D microprocessor controller for optimum reproducible bath conditions. Dual thermostats provide optimum protection for your work and water bath. The steeply gabled lid and inward-sloped tank rim allow condensate to drain neatly back into the bath, preventing condensate from dripping onto the samples.

- ▶ Solid electric drive mechanism provides uniform and quiet agitation and enables continuous 24 hour operation.
- ▶ Water bath temperature is monitored and controlled over the entire range with an accuracy of $\pm 0.1^{\circ}\text{C}$ with P.I.D temperature controller.
- ▶ Easy-to-read LCD digital display provides a user-friendly interface which helps minimise errors in establishing running conditions.
- ▶ Non-volatile memory retains preset parameters during a power failure and restarts unit automatically after the power is restored.
- ▶ Heat loss and evaporation is minimized with the use of finely electro-polished stainless steel gabled lid cover, standard on ZWY Series units.
- ▶ High quality #304 stainless steel for excellent durability of interiors and its parts.
- ▶ Standard stainless steel tray, without clamps.



Model	ZWY-110X30	ZWY-110X50
Volume	30L	50L
Gable Lid Included	Yes	Yes
Shaking Mode	Reciprocal	
Temp. Range	Ambient - 99.9°C	
Temp. Accuracy	±0.1°C	
Temp. Uniformity	±0.2 @ 37°C	
Timer	0 to 500 hours	
Stroke (mm)	16 (Default setting), 24	
Speed Range	20-180 rpm	
Tray (mm) (WxD)	434 x 256	494 x 316
Capacity *	*Glass dimensions may reduce max. capacity	
50 ml	28	40
100 ml	18	28
250 ml	11	15
500 ml	7	11
1000 ml	-	6
Inner Dimensions (mm) (WxDxH)	508x300x200	568x360x250
Exterior Dimensions (mm) (WxDxH)	795x360x380	855x420x430
Packing Dimensions (mm) (WxDxH)	865x430x520	925x490x590
Net/Gross Weight	29/40 kg	33/49 kg
Power	1600W	2000W
Electricity	220-240V, 50/60 Hz	
Approval	CE, ISO	

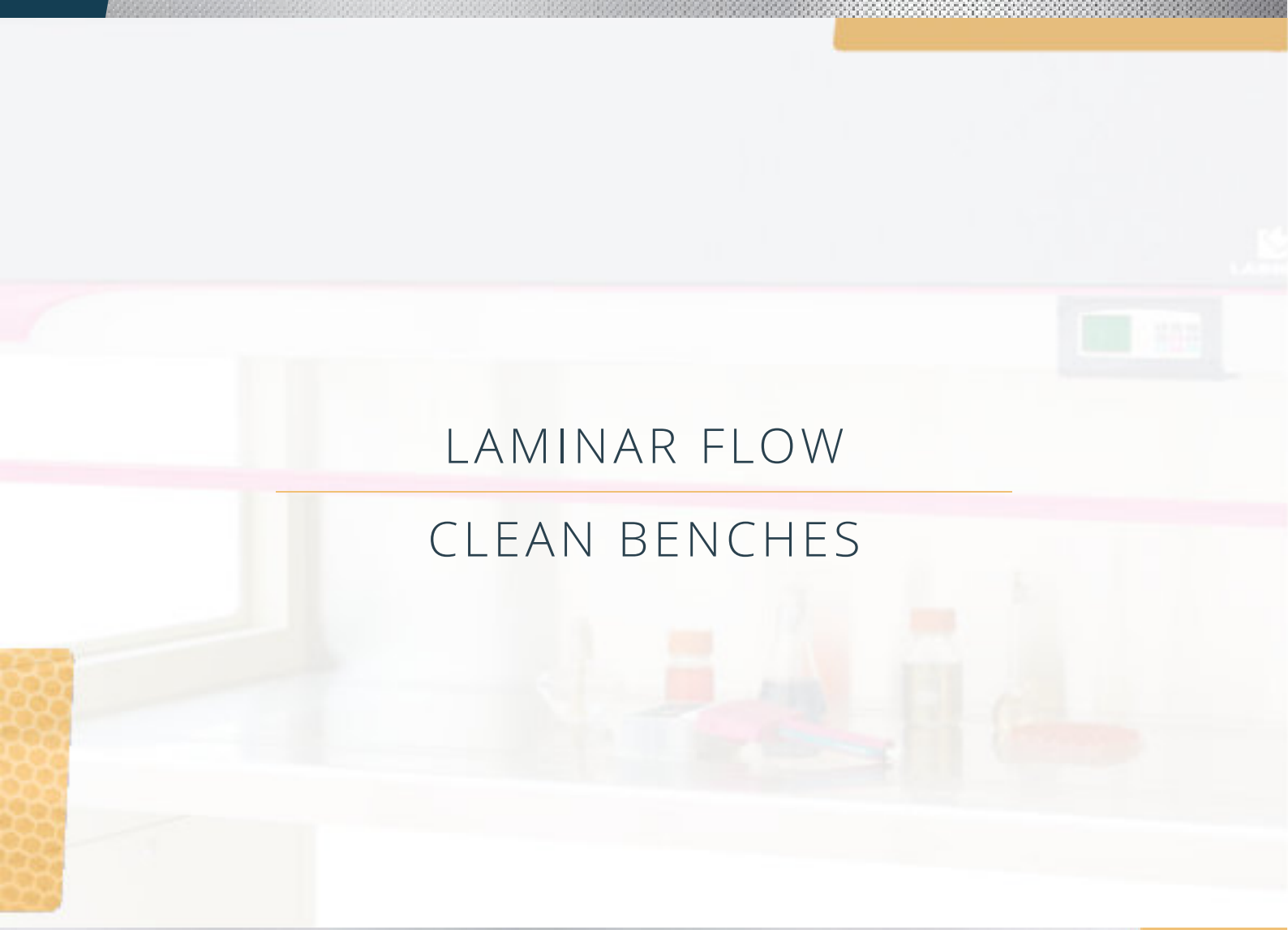
Order Information

ZWY-110X30	ZWY-110X30, 30L, Reciprocal Water Bath Shaker, A - 99.9°C, 20-180rpm, with lid
ZWY-110X50	ZWY-110X50, 50L, Reciprocal Water Bath Shaker, A - 99.9°C, 20-180rpm, with lid

P6014	Tray for ZWY-110X30, S/S ※
P6015	Tray for ZWY-110X50, S/S
P7015	Universal Tray for ZWY-110X30
P7016	Universal Tray for ZWY-110X50
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
P8015	Gable Lid for ZWY-110X30
P8016	Gable Lid for ZWY-110X50

※ S/S: Stainless Steel



LAMINAR FLOW CLEAN BENCHES

LABWIT laminar flow clean benches offers a series of high efficiency products designed to protect equipment and other contents of the work zone from particulates, for applications sensitive to such contamination. It is ideally suited for use with non-hazardous contaminants and when flexible access to the equipment in the work zone is desired.

These laminar flow clean benches are available in premium and economic ranges, each range with airflow pattern options (vertical and horizontal), working surface width options (from 900-1800mm) and working sides options (single and double-sided working surface).



Premium VS Economic

While the economic range features all basic functions of classic type of laminar flow clean bench, the premium range has renowned for its patented HEPA filter monitoring system, which monitors the status of the HEPA filter every time before each operation, and alarms the user in case it's broken, expiring or overloaded. Therefore, the integrity of the key component of the clean bench is well under control and the security of experiment and samples involved are assured.

Refer to the table for more information of the Premium and Economic ranges.



LABWIT Laminar Flow Cabinet	Premium Range (ZHJH-CxxxxC)	Economic Range (ZHJH-CxxxxB)
Filter Monitoring System	Yes. Auto self-validation running, with alarms against filter breakage and invalidations	No
Control panel type	LCD	LED
Velocity adjustment	Stepless	7 Steps
Velocity display	Yes	No
Velocity sensor	Yes, standard	No
Time clock	Yes	No
Constant velocity control	Yes	No
Filter pressure differential Display	Yes	No
UV light type	Quartz High-efficiency	High-efficiency

Vertical Flow VS Horizontal Flow

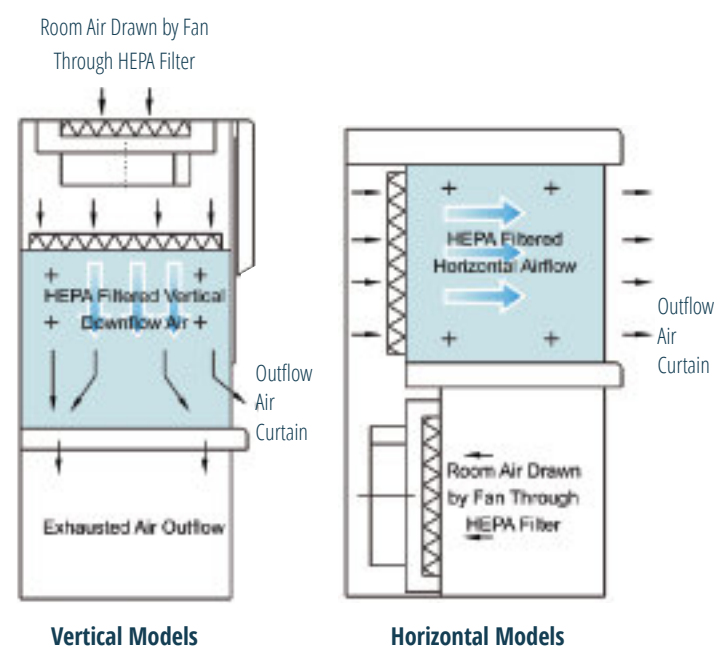
► In all models, air is taken in through a pre-filter and then passed through a HEPA filter.

► In horizontal flow models, filtered air is passed through the main chamber, and finally exhausted through the back of the working chamber with horizontal air flow. In vertical flow models, filtered air is drawn out from the ceiling of the working chamber, and creates the vertical air down flow across the chamber area.

► On the horizontal flow models, air flow creates less turbulence at the work surface compared to vertical flow models, as the airflow smoothly pass across the chamber area rather than directly impinge upon the working surface.

► Airflow in a horizontal flow clean bench is blown directly towards the user, whereas the airflow in a vertical flow clean bench strikes the working surface first and exits towards the user indirectly. Herein, it should be noted, neither laminar flow type of clean benches offers any operator protection.

► Large or tall equipment in a horizontal flow clean bench will interrupt the airflow more than in a vertical flow model. This may create more turbulence and "dead" spots where airflow is lower than elsewhere. While vertical flow clean benches are not so impacted by large equipment.



Clean Bench Model Summary																			
		Fluorescent Lamp																	
		UV Lamp																	
		Window Sash																	
		Time Clock																	
		Timer																	
		Pressure Differential Display																	
		Velocity Level Display																	
		Constant Velocity Control																	
		Velocity Display																	
		Velocity Stepless Setting																	
		HEPA Filter Breakage Alarm																	
		HEPA Filter Invalidation Alarm																	
		LED Display																	
		LCD Display																	
		Double Sided																	
		Single Sided																	
		Horizontal Flow																	
		Vertical Flow																	
Work Surface Width (mm)	1800																		
	1500																		
	1400																		
	1200																		
	900																		
	600																		
Model & Features		ZHJH-C1106B	ZHJH-C1109B	ZHJH-C1112B	ZHJH-C1115B	ZHJH-C1118B	ZHJH-C1209B	ZHJH-C1214B	ZHJH-C2109B	ZHJH-C2112B	ZHJH-C1109C	ZHJH-C1112C	ZHJH-C1115C	ZHJH-C1118C	ZHJH-C1209C	ZHJH-C1214C	ZHJH-C2109C	ZHJH-C2112C	
		Economic Range									Premium Range								



ZHJH-C1109C



PREMIUM LAMINAR FLOW Clean Benches

ZHJH-C1112C



ZHJH-C118C



LABWIT premium vertical flow clean bench is a series of high air purifying equipment with an intellectualised control system to ensure a clean working environment. These units are designed for a particle-free, bacteria-free clean-air environment which is used for laboratory work, testing, manufacturing, inspection or pharmaceutical procedures under ISO Class 5 conditions to prevent airborne contamination. They are economical lightweight and are available in a variety of sizes. The patented HEPA filter monitoring system features an automatic filter integrity test, called "Self Validation Test", making sure the HEPA filter is integral and valid, hence the working room is properly protected every time before operation is started.

During operation, room air is drawn through a pre-filter in the top of the cabinet to trap large particles. Air flows through a HEPA filter and is blown vertically over the work area. The positive pressure laminar airflow provides product protection within the work area. The HEPA-filtered air prevents contaminants from entering the work area and provides a particulate-free work environment that minimises cross contamination.

- ▶ Automatic HEPA filter integrity test monitors and alarms against HEPA filter breakage and overloading.
- ▶ LCD screen displays the actual speed, differential pressure, flow volume and HEPA status.
- ▶ A pre-filter traps large particles to extend the life of the HEPA filter.
- ▶ A quiet and with stepless adjustable speed internal blower provides air velocity.
- ▶ Glare free fluorescent lamp.
- ▶ Operation mode choices of automatic and manual.
- ▶ Standard with high efficiency quartz UV-light.
- ▶ Stainless steel work surface.
- ▶ Combined base stand with castors.
- ▶ The adjustable front window allows for easy positioning.
- ▶ An extra power point is included as standard.
- ▶ Time clock display.

Model	ZHJH-C1109C	ZHJH-C1112C	ZHJH-C1115C	ZHJH-C1118C	ZHJH-C1209C	ZHJH-C1214C	ZHJH-C2109C	ZHJH-C2112C
Airflow Mode	Vertical Flow						Horizontal Flow	
Work Side (mm)	Single	Single	Single	Single	Double	Double	Double	Double
Work Area Width (mm)	900	1200	1500	1800	900	1400	900	1200
Filter Monitoring System	Yes. Automatic running before every operation starts.							
Filter Efficiency	Fed Std 209E Class100 ISO 5							
Workroom Air Velocity	0.3-0.6 m/s (stepless)							
Velocity Precision	±0.05 m/s							
Illumination	Fluorescent light ≥ 300Lx							
UV-light	Standard							
HEPA Differential Pressure	0-500 Pa							
Work Area Dimensions (mm) (WxDxH)	900x625x645	1200x625x645	1500x625x645	1800x625x645	900x650x645	1400x650x645	900x590x570	1200x590x570
Exterior Dimensions (mm) (WxDxH)	1020x750x1700	1320x750x1700	1620x750x1700	1920x750x1700	1020x810x1700	1520x810x1700	1020x840x1530	1320x840x1530
Packing Dimensions (mm) (WxDxH)	1100x840x1890	1440x840x1890	1700x870x1890	2000x840x1890	1100x930x1890	1600x930x1890	1140x960x1700	1440x960x1700
Shipping Volume (m3)	1.75	2.24	2.70	3.18	1.93	2.81	1.86	2.35
Net Weight (kg)	153	215	250	310	162	225	170	210
Power (W)	380	680	680	680	380	680	380	680
Electricity	220/240 Volt, 50/60 Hz							
Approval	CE, ISO							

Order Information

ZHJH-C1109C	90cm, Premium Single Sided, Vertical Flow Clean Bench
ZHJH-C1112C	120cm, Premium Single Sided, Vertical Flow Clean Bench
ZHJH-C1115C	150cm, Premium Single Sided, Vertical Flow Clean Bench
ZHJH-C1118C	180cm, Premium Single Sided, Vertical Flow Clean Bench
ZHJH-C1209C	90cm, Premium Double sided, Vertical Flow Clean Bench
ZHJH-C1214C	140cm, Premium Double sided, Vertical Flow Clean Bench
ZHJH-C2109C	90cm, Premium Single sided, Horizontal Flow Clean Bench
ZHJH-C2112C	120cm, Premium Single sided, Horizontal Flow Clean Bench



ZHJH-C1214C



ZHJH-C1109B



ZHJH-C112B

ZHJH-C1118B



ECONOMIC LAMINAR FLOW Clean Benches

LABWIT economic laminar flow clean benches are the basic models of the premium units, which are designed for a particle-free, bacteria-free clean-air environment which is used for laboratory work, testing, manufacturing, inspection or pharmaceutical procedures under ISO Class 5 conditions to prevent airborne contamination. These benches are economical, lightweight and are available in a variety of size capacity.

During operation, room air is drawn through a disposable pre-filter in the top of the cabinet to trap large particles. Air flows through a HEPA filter and is projected vertically/horizontally over the work area. The positive pressure laminar airflow provides product protection within the work area. The HEPA-filtered air prevents contaminants from entering the work area and provides a particulate-free work environment that minimises cross contamination.

- ▶ LED digital indicator with touch pad controller.
- ▶ HEPA filter tested to a typical efficiency of >99.97% for contaminants at 0.3 microns in size.
- ▶ Class 100 ISO 5 air cleanliness within the work zone as per Fed Std 209E.
- ▶ A disposable pre-filter traps large particles to extend the life of the HEPA filter.
- ▶ A quiet and with 7 steps adjustable speed internal blower provides air velocity control.
- ▶ Glare free fluorescent lamp.
- ▶ Standard with UV-light.
- ▶ Stainless steel work surface.
- ▶ Combined base stand with castors.
- ▶ The adjustable front window allows for easy positioning. (unavailable on horizontal models ZHJH-C2109B, ZHJH-C2112B).

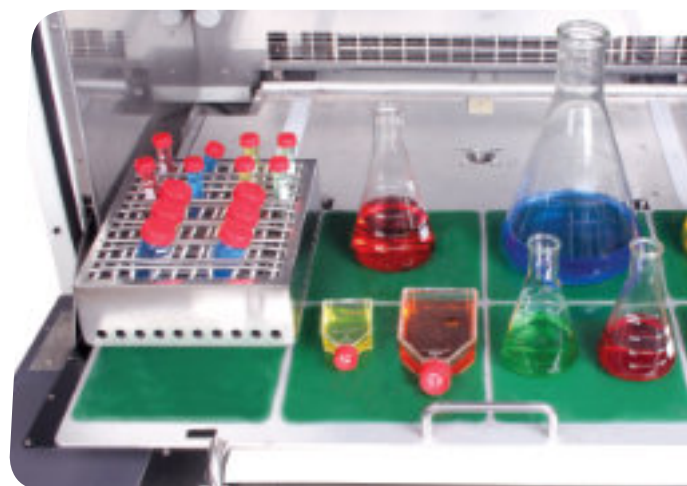
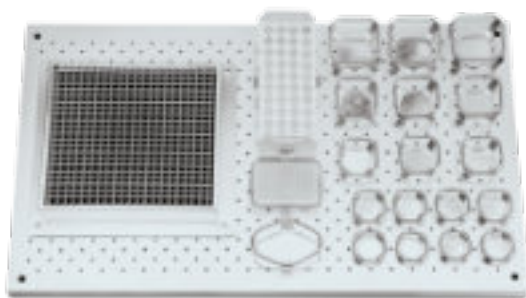
Model	ZHJH-C1109B	ZHJH-C1112B	ZHJH-C1115B	ZHJH-C1118B	ZHJH-C1209B	ZHJH-C1214B	ZHJH-C2109B	ZHJH-C2112B
Airflow Mode	Vertical Flow						Horizontal Flow	
Work Side (mm)	Single	Single	Single	Single	Double	Double	Single	Single
Work Area Width (mm)	900	1200	1500	1800	900	1400	900	1200
Filter Monitoring System	No							
Filter Efficiency	Fed Std 209E Class100 ISO 5							
Workroom Air Velocity	0.3-0.6 m/s (7 steps adjustable)							
Velocity Precision	±0.05 m/s							
Illumination	Fluorescent light ≥ 300Lx							
UV-light	Standard							
HEPA Differential Pressure	0-500 Pa							
Work Area Dim. (mm) (WxDxH)	900x625x645	1200x625x645	1500x625x645	1800x625x645	900x650x645	1400x650x645	900x590x570	1200x590x570
Exterior Dim. (mm) (WxDxH)	1020x740x1700	1320x740x1700	1620x740x1700	1920x740x1700	1020x790x1700	1520x790x1700	980x790x1440	1280x790x1440
Packing Dim. (mm) (WxDxH)	1100x840x1890	1400x840x1890	1700x840x1890	2000x840x1890	1100x930x1890	1600x930x1890	1100x910x1610	1400x910x1610
Shipping Volume (m³)	1.75	2.22	2.70	3.18	1.93	2.81	1.61	2.05
Net Weight (kg)	153	215	250	310	162	225	150	185
Power (W)	380	680	680	680	380	680	380	680
Electricity	220/240 Volt, 50/60 Hz							
Approval	CE, ISO							

Order Information

ZHJH-C1109B	90cm, Economic Single Sided, Vertical Flow Clean Bench
ZHJH-C1112B	120cm, Economic Single Sided, Vertical Flow Clean Bench
ZHJH-C1115B	150cm, Economic Single Sided, Vertical Flow Clean Bench
ZHJH-C1118B	180cm, Economic Single Sided, Vertical Flow Clean Bench
ZHJH-C1209B	90cm, Economic Double sided, Vertical Flow Clean Bench
ZHJH-C1214B	140cm, Economic Double sided, Vertical Flow Clean Bench
ZHJH-C2109B	90cm, Eco Single sided, Horizontal Flow Clean Bench
ZHJH-C2112B	120cm, Eco Single sided, Horizontal Flow Clean Bench



ZHJH-C1112B



PARTS & ACCESSORIES

We offer a broad range of parts and accessories to lift your experience with LABWIT equipment. Whether it is shaking trays, flask clamps, or spring pallets, we let you keep it real with LABWIT genuine parts.

Standard Shaking Trays

(For Shaking Incubators)

- As a basic platform for all shaking equipment, shaking tray/s are included with the main units. Two trays are included with all double layer units. Extra shaking trays can be ordered separately if necessary.
- All shaking trays are made of high quality materials, for example, the spray coated steel trays of floor shakers, and SUS304 stainless steel trays of all shaking incubators.

► All shaking trays (except for stackable models) are made of SUS304 stainless steel, and carefully perforated with standard holes distance intervals, which offers 100% flexibility for any attachment combinations on the shaking tray, for example, flask clamps, test tube racks, or 96 well plates, etc.

► The shaking trays of all stackable shaking incubators are made of SUS304 stainless steel corrosion resistant anodised aluminium, featuring threaded screw holes to fit with the specialised flask clamps with countersink screws.

Order Information

P6001	Tray for ZWY-103B/D, S/S
P6002	Tray for ZWY-100H/100D, S/S
P6004	Tray for ZWY-240/200D, ZWYR-240/200D, S/S
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
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
P6014	Tray for ZWY-110X30, S/S
P6015	Tray for ZWY-110X50, S/S
P6016	Tray for ZWY-304/ZWF-334, S/S Clamp Tray
P6017	Tray for ZWY-304/ZWF-334, S/S Bar Tray x 1, Rubber Bar x 4, Knob x 8
P6018	Tray for ZWQ-344, Stl S/C Tray x 1, with spring x 4, Rubber Mat x 1
P6020	Tray for ZWY-322B/3222B Stl S/C
P6021	Tray for ZWY-322C/B3222 Stl S/C
P6022	Tray for ZWYC-290A, Predrilled
P6023	Tray for ZWYC-290A, Plain
P6024	Predrilled Tray for ZWYR-D2401/2402/2403
P6025	Tray for ZWYR-D2401/2402/2403, Plain
P6040	Tray for ZWYR-293, ZWYC-293G, Predrilled

P6041	Tray for ZWYR-293, ZWYC-293G, Plain
P6050	96 Well Plate Tray for ZWYC-293G, 530x435mm



P6016



P6023



P6017



P6040



P6018



P6050

Universal spring pallets

► Universal spring pallet is designed to offer most flexibility for holding uncommon vessels and containers by using springs to divide the pallet area into a number of small sections.

► Available for most shakers, rockers and shaking incubators.

► Each full size universal spring pallet has the same width and depth of the standard shaking tray of each model respectively.

► Full size universal spring pallets can only be installed after the standard shaking tray is removed.

Order Information

P7001	Universal Tray for ZWY-103B/103D
P7002	Universal Tray for ZWY-100H/100D
P7003	Universal Tray for ZWY-240/200D, ZWYR-240/200D
P7004	Universal Tray for ZWYR-D2401
P7007	Universal Tray for ZWY-111B/211B/111C/211C, ZWYR-211C, Full Pcs
P7008	Universal Tray for ZWYR-211D, Full Pcs
P7009	Universal Tray for ZWF-111/211, ZWFR-211, Full Pcs
P7011	Universal Tray for ZWY-1102C/2102C, ZWYR-2102C
P7012	Universal Tray for ZWY-1102/2102, ZWYR-2102, Full Pcs
P7013	Universal Tray for ZWY-1112B/2112B, ZWYR-2112B, Full Pcs
P7014	Universal Tray for ZWF-1112/2112, ZWFR-2112, Full Pcs
P7015	Universal Tray for ZWY-110X30
P7016	Universal Tray for ZWY-110X50
P7017	Universal Tray for ZWY-304/ZWF-334
P7019	Universal Tray for ZWY-322B/3222B
P7020	Universal Tray for ZWY-322C/B3222
P7022	Universal Tray for All Horizontal Model, 1/2 Pcs
P7023	Universal Tray for All Double Layer Model, 1/2 Pcs
P7027	Universal Spring Pallet for ZWYR-293, ZWYC-293G
P7029	Universal Spring Pallet for ZWYR-293, ZWYC-293G, 500x400mm



P7003



P7012

Flask Clamps

► All flask clamp attachments are designed for various Erlenmeyer flasks, made of high-quality stainless steel. Clamps are available in two types, one specific type designed for the shaking trays of stackable shaking incubators, known as “**O Clamp**”, and the general type for all other shakers and rockers, known as “**T Clamp**”.

► **O Clamps** feature countersink holes on the bottom with individual countersink screws supplied. These type of clamps can be easily fixed securely onto the shaking trays of stackable shaking incubators by screwing into the threaded holes with a general Philip's screwdriver.

► The traditional **T Clamps** have screw pins on the bottom of the clamps. Individual nuts are used to fix the clamps onto the standard trays through the predrilled holes.

► Clamps of 750ml in size and below are equipped with one screw pin/countersink hole per unit. While four screw pins/countersink holes on each clamp of 1L in size and above for more security.

► Clamps of 2L size and above are made of premium quality spring stainless steel for better security and grip.

► LABWIT offers customisation services of clamps design for Schott glass bottles, Fernbach flasks or to customer specifications. Contact us or your local distributor to discuss your requirements.



T Type Clamps**(All models, except Stackable Shaking Incubators)**

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

**O Type Clamps****(Stackable Shaking Incubators Only)**

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
P8028	O Clamp, S/S, for 3000ml Flask, with Spring Retainer
P8029	O Clamp, S/S, for 5000ml Flask, with Spring Retainer



P8010



P8011



P8012

Tube Racks & 96 Well Plate Clamp

- ▶ Tube racks are available in stainless steel and ABS plastic.
- ▶ P8010 stainless steel tube rack set contains one clamp holder and one stainless steel rack. With two adjusting knobs, the rack itself can be randomly fixed at 0-90 degree angles. It is available with different sizes of holes for various sizes of test tubes. While every tube rack has the same overall dimension, as 30x11x11cm. It is available with different sizes of holes for various sizes of test tubes. For example:

* P8010-17 : Tube Rack S/S, $\Phi 17.5 \times 55$; for 15ml Falcon Tubes

* P8010-30: Tube Rack S/S, $\Phi 30 \times 20$; for 50ml Falcon Tubes

Refer to the below detailed list for available sizes of tube racks.

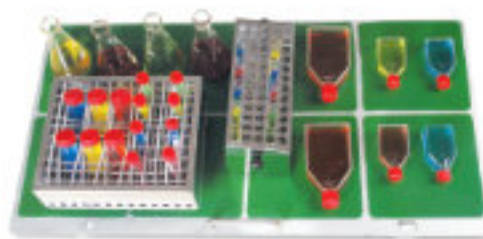
- ▶ P8011 ABS plastic tube rack set include a stainless steel clamp and an ABS plastic tube rack.

P8010-14	Tube Rack S/S, $\Phi 14.5 \times 60$
P8010-15	Tube Rack S/S, $\Phi 15 \times 60$
P8010-16	Tube Rack S/S, $\Phi 16 \times 60$
P8010-17	Tube Rack S/S, $\Phi 17.5 \times 55$
P8010-18	Tube Rack S/S, $\Phi 18.5 \times 52$
P8010-20	Tube Rack S/S, $\Phi 20 \times 36$
P8010-21	Tube Rack S/S, $\Phi 21 \times 36$

P8010-22	Tube Rack S/S, $\Phi 22.5 \times 36$
P8010-25	Tube Rack S/S, $\Phi 25 \times 24$
P8010-30	Tube Rack S/S, $\Phi 30 \times 20$
P8010-32	Tube Rack S/S, $\Phi 32 \times 17$
P8010-35	Tube Rack S/S, $\Phi 35 \times 15$
P8011	Tube Rack ABS Plastic
P8012	T Clamp, S/S, for 96 Well Plate, 128 x 86mm
P8032	O Clamp, S/S, for 96 Well Plate, 128 x 86mm

Sticky Mat

- ▶ The LABWIT Sticky Mat is designed for attaching culture vessels, such as flasks, bottles, dishes etc onto the shaking platforms for all shaking equipment, for example, shakers, rockers as well as shaking incubators. It can be used to cover the shaking platforms replacing the traditional flask clamps.
- ▶ The Sticky Mat can be easily removed and repositioned by simply peeling off the shaking tray surface.
- ▶ With proper care, the Sticky Mat can be durable and last for several years.



P8017	Sticky Mat, 20 x 20cm
P8082	Sticky Mat, 20 x 8cm

▶ Universal Choice for Vessels and Shaking Trays

The Sticky Mat is suitable for use with any shaking tray or platform, including predrilled or with threaded holes, to fix various types of vessels onto the shaking trays.

▶ High Shaking Speed

With strong stickiness, the Sticky Mat can be used for fastening the vessels with shaking speed up to 300rpm. (See specifications table for more details).

▶ Handy to Install and Clean

Simply apply the Sticky Mat firmly without air bubble while it's wet. Rinse the mat under running water, or use mild soapy water if necessary.

▶ Wide Temperature Range

The mat is proven to be safe to use over a wide range of temperature from 15°C-60°C.

▶ Handy Shape and Size

The size of 20 x 20cm in square shape makes it easy to place small vessels, and handy to be removed. 20 x 8cm size available for making up better coverage over the shaking tray.

▶ Easy to Remove the Vessels

Gently pull the vessel and hold for a while, the vessel will be removed effortlessly.

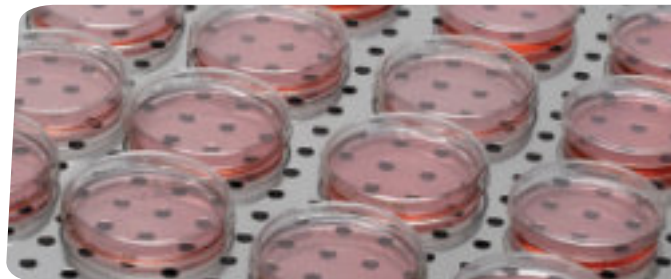
Specifications:

Only apply to flasks with filling volume 20%. Both flasks and Sticky Mat must be completely intact, clean, dry and free of grease. All information supplied without liability. Only valid for standard glass Erlenmeyer Flasks. For vessels made of other materials, the maximum speed varies upon the shape and size of the vessel's bottoms.

Flask Size	Max Speed @ Shaking Diameter 25-50mm	Max Speed @ Shaking Diameter <25mm
50-750ml	250rpm Max	250rpm Max
1000ml	250rpm Max	300rpm Max
2000ml	250rpm Max	300rpm Max
3000ml	300rpm Max	300rpm Max
5000ml	250rpm Max	300rpm Max

Grid Plates

- For Incubators and Drying Ovens.
- Anti-tilt design with high quality stainless steel.



Order Information

P9001	Grid Plate for ZXD-B2050, S/S
P9002	Grid Plate for ZXD-B2080, S/S
P9003	Grid Plate for ZXD-B2120, S/S
P9004	Grid Plate for ZXD-B2160, S/S
P9005	Grid Plate for ZXD-B2270, S/S
P9006	Grid Plate for ZXP-B2050, S/S
P9007	Grid Plate for ZXP-B2080, S/S
P9008	Grid Plate for ZXP-B2160, S/S
P9009	Grid Plate for ZXP-B2270, S/S
P9010	Grid Plate for ZXS-B1090, ZXS-R1090, S/S
P9011	Grid Plate for ZXS-B1160, ZXS-R1160, S/S
P9012	Grid Plate for ZXS-B1270, ZXS-R1270, S/S
P9013	Grid Plate for ZXS-B1430, ZXS-R1430, S/S
P9014	Grid Plate for ZXP-R1150, S/S
P9015	Grid Plate for ZXP-R1230, S/S
P9016	Grid Plate for ZXP-R1430, S/S

P9018	Grid Plate for ZXR-B5055, S/S
P9019	Grid Plate for ZXR-B5110, S/S
P9020	Grid Plate for ZXR-B5210, S/S
P9021	Grid Plate for ZXR-A7080, S/S
P9022	Grid Plate for ZXR-A7140, S/S
P9023	Grid Plate for ZXR-A7230, S/S
P9025	Grid Plate for ZXF-B5090, S/S
P9026	Grid Plate for ZXF-B5140, S/S
P9027	Grid Plate for ZXF-B5250, S/S
P9028	Grid Plate for ZXF-B5430, S/S
P9029	Grid Plate for ZXF-B5600, S/S
P9030	Grid Plate for ZXP-R0160, S/S
P9031	Grid Plate for ZXP-R0270, S/S
P9032	Grid Plate for ZXP-R0430, S/S
P9033	Perforated Shelf Plate for ZOCR-1160

S/S: Stainless Steel



Shaking Frames & Other

Gable Lids for Water Baths

P4011	Gable lid for ZSBB-712, S/S
P4012	Gable lid for ZSBB-724, S/S
P4013	Gable lid for ZSBB-726, S/S
P4014	Gable lid for ZSBB-728, S/S

S/S: Stainless Steel



Water Bath Gable Lid

Shaking Frames for Double Layer Models

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
P5006	Single Layer Shaking Frame for ZWY-322B/3222B, Stl S/C
P5008	Single Layer Shaking Frame for ZWY-322C/ B3222, Stl S/C
P5024	Double Layer Shaking Frame for ZWY-1102C/2102C, ZWYR-2102C, Stl S/C
P5025	Double Layer Shaking Frame for ZWY-1102/2102, ZWYR-2102, Stl S/C
P5026	Double Layer Shaking Frame for ZWY-1112B/2112B, ZWYR-2112B, Stl S/C
P5027	Double Layer Shaking Frame for ZWY-322B/3222B, Stl S/C
P5028	Double Layer Frame for ZWY-322C/ B3222, Stl S/C



Double Layer Shaking Frame

Base Stands for Stackable Shaking Incubators

P5010-35	Cabinet Base Stand for ZWYR-D2401, H35cm
P5010-50	Frame Base Stand for ZWYR-D2401, H50cm
P5012-35	Cabinet Base Stand for ZWYC-290A, H35cm
P5012-50	Frame Base Stand for ZWYC-290A, H50cm
P5032-35	Cabinet Base Stand for ZWYR-293, ZWYC-293G, 840x710x350mm
P5032-50	Frame Base Stand for ZWYR-293, ZWYC-293G, 840x710x500mm



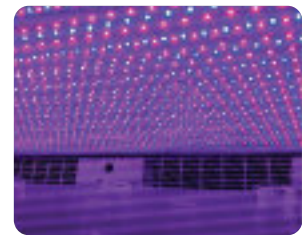
P5010-35



P5010-50

LED Lighting Panels

P5011WW	LED Lighting Panel for ZWYR-D2401/D2402/D2403, ZWYC-290A, Warm White
P5011RB	LED Lighting Panel for ZWYR-D2401/D2402/D2403, ZWYC-290A, Red & Blue
P5031WW	LED Lighting Panel and Control Kit, Warm White for ZWYR-293, ZWYC-293G
P5031RB	LED Lighting Panel and Control Kit, Red & Blue for ZWYR-293, ZWYC-293G



P5011RB

Others

P4002	Right Hinged Door, ZOCR-1160
P4003	Built-in Printer
P4004	Gas Tank Auto-switching Kit
P4015	Printer Paper Roll, 10 pcs
P5013	Direct Steam Humidification Kit for ZWYC-290A
P5014	IR CO ₂ Kit for ZWYC-290A
P5016	RS-485 Interface
P5019	Ø50mm Shaking Orbit, for ZWY-2112B/1112B, ZWYR-2112B
P5021	RS-232 Interface
P5033	TCP/IP interface
P5018	Static Perforated Shelf for ZWY-1102/2102, ZWYR-2102C, H15cm
P5029	Static Perforated Shelf for ZWYC-290A, H15cm
P5017	Upward Door Opening for ZWYR-D2401/D2402/D2403
P5022	UV Lighting, 8W, for ZXSD/ZXSP Series
P5030	Fluorescent Light for ZWYR-240/200D, ZWY-240/200D



P4003



P5013

NOTES



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