

ADVANCED SOLUTIONS FOR SCIENTIFIC DISCOVERY

Product Catalogue

Version 5.2

Labwit is a premium provider of scientific laboratory instruments, specializing in shaking incubators, shakers, incubators, ovens, laminar flow cabinets, and an array of laboratory equipment. Boasting over 25 years of experience in research and development, we are dedicated to propelling scientific discovery forward through innovative instrumentation and unwavering quality to both the life science and industrial sectors. We relentlessly pursue excellence while addressing the unique needs of our customers, and it is this commitment to innovation that sets us apart from our competitors.

In this catalogue, we are proud to introduce our latest breakthrough: the Ultra-Compact Stackable shaking incubator. This innovative equipment offers exceptional flexibility, allowing for traditional shaking incubations with flasks and tubes, as well as micro-volume high-throughput microbial screening with 96-well plates. Featuring our new ø3mm shaking mechanism, this model revolutionizes cell culture technology by aligning with the trends of automation and high precision in handling and analytical work. With precise control over temperature, shaking speed, humidity, carbon dioxide levels, and LED light exposure, it empowers researchers to conduct versatile and reproducible experiments with ease.

All Labwit products are designed, manufactured and marketed in an ISO9001:2008 environment. Every step from new product development to after sales service follows documented and traceable procedures. The result is a quality focused culture committed to total customer satisfaction. All electrical products conform to the latest safety directives including CE requirements.

All the products featured in this catalogue are available through a worldwide network of distributors. Technical advice and guidance on product selection is available from our qualified distribution partners. Our aim is to provide the very best laboratory equipment for you, for everyone, for better results.

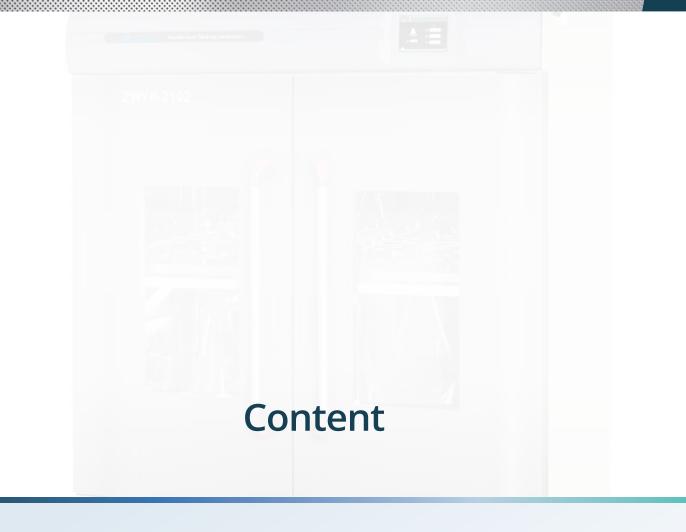












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SHAKING

INCUBATORS



Labwit's 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, CO_2 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

Characterized by their exceptional accuracy, our 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, minimizing variability and ensuring reproducibility in experiments of cell culture, microbial screening, or other shaking incubation processes.

Uniformity

Utilizing 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 & humidity gradients and ensures that each sample experiences the same conditions, minimizing 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.



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, CO₂ concentration controls.

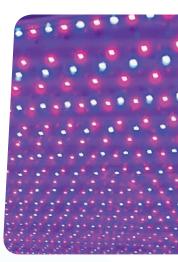
Intuitive Touch Screen Panel

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 CO_2 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.

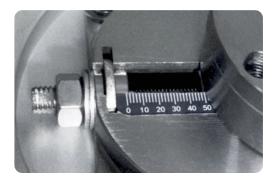
Intelligent: Self diagnostic alarm system monitors all functions and parameters and prompts in case of errors, which are clearly indicated in the touch screen panel.





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 maximized flexibility for all applications requiring optimized 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.

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 are also available. With extended effective inner height as 425 mm, 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 optimizes 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 9 segments, with cycles) to automate changes to

Advanced CO₂ controlling with Infrared (IR) sensor

function parameters.

The effective controlling of CO_2 concentration is essential for cultivations of mammalian cells and algae. The CO_2 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 CO_2 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 400 µmol/ (m²*s). Even light distributions over the shaking tray. Easy programmable for day and night simulations. With height of 10mm, the light panel minimizes 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	15	8

Contamination Control



UV Sterilization

The UV sterilization system is isolated from the samples, sterilizes 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	5-35°C
UV Light	≥400 mW/m ²
Noise Level	<70 dB (1m above floor)
Power	1150W
Electricity	AC 220-240 Volt, 50/60Hz

	Temperature		
Control Mode	Fixed Value & Program		
Temperature Range	re Range Ambient - 15 to 60°C (Min.4°C) #		
Temperature Accuracy	0.1°C		
Temperature Uniformity	±0.5°C @37°C		
Principle of Sensor	PT100		
Air Circulation	360m³/Hour		
Recovery (@37°C)	10 mins (30 Seconds Door Opening)		

Humidity
40-80%RH, at 25-55°C
0.1%RH
±3%RH
Capacitive
Direct Steam Injection
400W
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 unauthorized 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 up to 5 days of data internally when USB drive is not connected. Option: RS-485 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.

- Automatic stop shaking motion, fan and heating when the door is opened.
- Sensor failure 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.
- Independent temperature limit protection against over temperature.

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

	CO ₂
Principle of Sensor	Infared, NDIR
CO ₂ Range	0-20%
CO ₂ Accuracy	±0.15 @ 5.0%
Temperature 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 700 µmol/(m2*s)	Up to 400 µmol/(m2*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 optimize the energy efficiency.
- 2pcs of Φ50mm 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, 257Lx1, Ultimate-Cell Stackable Shaking Incubator, 4-60, 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
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	Clamp for 96 Well Plate, S/S
	× C/C Stainlass Stall

✤ S/S: Stainless Stell



P5029

ZWYC-290A with P5012-35





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, optimized 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 (250 nit), 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 provide 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 setpoints.

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 sterilizes 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.



Maximized Capacity with Minimized Footprint

Ideal for benchtop and under-bench, but still up to two ZWYC-293G can be stacked for maximized 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 beltless 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 revolutionizes 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. 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.

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	33	33	23	14	9	6	4	2	12	4

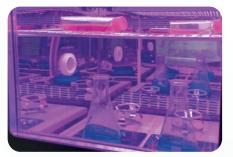
Photosynthetic LED Lighting

► 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 220 µmol/(m²*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 minimizes 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 CO_2 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 up to 5 days of 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 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.

Specifications	
Machine	
Outside (WxDxH)	840 x 764 x 625mm
Inside (WxDxH)	570 x 505 x 418mm
Volume	120L
Net / Gross Weight	120kg/165kg
Control Panel	7" (800 x 480) TFT Touch Screer
Illumination	LED
Language	English
Ambient Temperature (°C)	5-35°C
UV Light	254nm, 8W x 2 Pcs
Noise Level	<55 dB (1m above floor)
Power	765W
Electricity	AC 220-240 Volt, 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

Direct Beltless Driving System		
500 x 400mm		
15kg		
30-300 rpm		
±1 rpm		
0 - 9999 mins		
Orbital		
Ø1-50mm Stepless Adjustment		

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.
- ▶ Φ50mm access port
- ► H15cm base stand.

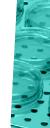
Options:

H35cm cabinet base stand (Single unit & Double Stack); H50cm frame base stand (Single unit only)

Temperature	
Control Mode	Fixed Value & Program
Temperature Range (°C)	Ambient - 20 to 60°C (Min. 4°C)#
Temperature Accuracy (°C)	0.1°C
Temperature Uniformity (°C)	±0.3°C @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 No.	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





Humidity (Option)		CO ₂ (Option)	
Part No.	P5053	Part No.	P5054
Humidity Range	40-80%RH, at 25-55°C	Principle of Sensor	Infrared, NDIR
Humidity Accuracy	0.1%RH	CO ₂ Range	0-20%
Humidity Uniformity	±3%RH	CO ₂ Accuracy	±0.15 @ 5.0%
Principle of Sensor	Capacitive	Temperature Range	25-55°C
System	Direct Steam Injection	CO ₂ Recovery (@5%)	5 mins (30 Seconds Door Opening)

Photosynthetic Lighting (Option)

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Part NO.	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 350 µmol/(m2*s)	Up to 220 µmol/(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				
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Min. 15°C when Photosynthetic Lighting option is applied. With P5020, temperature range upgrade to 4-80°C, no UV light.

	Order Information
ZWYC-293G	120L, Ultra Compact Shaking Incubator, 4-60°C
P4003	Built-in Printer
P5053	Direct Steam Humidification Kit for ZWYC-293G
P5054	IR CO ₂ Kit for ZWYC-293G
P5016	RS-485 Interface
P5020	Temperature Upgrade, 80°C, for ZWYR-D2401; ZWYC/R-293
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

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P6040	Tray for ZWYC/R-293, 500x400mm, Predrilled	P8022	O Clamp, S/S, for 100ml Flask, with Spring Retainer
P6041	Tray for ZWYC/R-293, 500x400mm, Plain	P8023	O Clamp, S/S, for 250ml Flask, with Spring Retainer
P6050	96 Well Plate Tray for ZWYC-293G, 530x435mm	P8024	O Clamp, S/S, for 500ml Flask, with Spring Retainer
07020	Universal Spring Pallet for:	P8025	O Clamp, S/S, for 750ml Flask, with Spring Retainer
P7029	ZWYR-293, ZWYC-293G, 500x400mm	P8026	O Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8010	Tube Rack S/S	P8027	O Clamp, S/S, for 2000ml Flask, with Spring Retainer
P8011	Tube Rack ABS Plastic	P8028	O Clamp, S/S, for 3000ml Flask, with Spring Retainer
P8032	O Clamp for 96 Well Plate, S/S	P8029	O Clamp, S/S, for 5000ml Flask, with Spring Retainer
P8017	Sticky Mat, 20 x 20cm		

SHAKING INCUBATORS

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 benchtop models), providing proactive contamination controls when needed.





PREMIUM STACKABLE **Shaking Incubators**

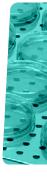
ZWYR-D2401 with P5010-35



- ▶ Stackable up to three units for maximum space savings.
- ► 5.6" LCD 640x480 touch screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips.
- ► Wide-view fold-down door with door handle, and ergonomic sliding-out shaking platform provide convenient access to your experiment products. Fold-up door option (#P5017) available for ZWYR-D2403 for easy loading on the top unit.
- ▶ Direct beltless driving system is both durable and economical, maintenance free, allows extended speed ranges from 30 to 300 RPM, ±1 RPM with minimized vibration, even when shakers are stacked of three high. The shaking diameter can be changed from 1-50mm for optimum oxygenation and nutrient mixing and agitation in from small to large flasks.
- ► The top of the casing can be further used as a work area for locating small items of lab equipment etc.
- ► The incubator casing is made of heavy-gauge cold-rolled steel; together with high graded #304 stainless steel inner chambers with coved corners make it easy to clean with mild detergent. Chamber is tall enough to hold 2L Erlenmeyer flasks.

- ► The ceiling of the unit can be upgraded and fitted with LED lighting kit for cultivation of phototrophic organisms. Mono/dual light colors are possible and the intensity of each color can be independently controlled and programmed to simulate day/night cycles, perfect for plant cell culture.
- ▶ 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 (up to 9 Segments)							
Control Panel	LCD Touch Screen	LCD Touch Screen						
Air Convection	Forced	Forced						
Shaking Mode	Orbit							
Volume/ Compartment (L)	190	190						
Ambient Temperature(°C)	10-35							
Shaking Speed (rpm)	30-300							
Stroke (mm)	Ø1-50 Stepless Adjustable							
Temperature Range (°C)	Ambient - 20 to 60°C (Min.4	Ambient - 20 to 60°C (Min.4°C)#						
Temperature Accuracy (°C)	0.1							
Temperature Uniformity (°C)	±1°C@37°C							
Timer	0 to 9999 mins							
Tray (mm) (WxD)	810x430	810x430						
Tray Included	1	2	3					
Inner Dimensions (mm) (WxDxH)	920x532x395	I	I					
Exterior Dimensions (mm) (WxDxH)	1300x930x735	1300x930x1315	1300x930x1895					
Packing Dimensions (mm) (WxDxH)	1390x1000x920	1390x1000x1490	1390x1000x2100					
Net/Gross Weight (kg)	250/290	450/540	650/750					
Power (W)	1200	2400 (1200*2)	3600 (1200*3)					
Electricity	220-240V 50/60 Hz		,					
Approval	CE, ISO							
Security	Over-temperature Protection	, Compressor Overload Protection, El	ectrical Leakage Protection					
Additional	Built in Printer, RS485 Interfa	ice (Option), LED Lighting Control Kit	(Option), Base Stand (Option)					
	# Min. Operating Temperatu	re: 15°C when Photosynthetic Lightin	g option is applied.					



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 700 µmol/(m2*s) Up to 400 µmol/(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				

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

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	Order Information
ZWYR-D2401	ZWYR-D2401, 190Lx1, Premium Stackable Shaking Incubator, Single, 4-60, 30-300rpm
ZWYR-D2402	ZWYR-D2402, 190Lx2, Premium Stackable Shaking Incubator, Double, 4-60, 30-300rpm
ZWYR-D2403	ZWYR-D2403, 190Lx3, Premium Stackable Shaking Incubator, Triple, 4-60, 30-300rpm
P5010-35	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	Clamp for 96 Well Plate, S/S
	× S/S· Stainlass Staal







ZWYR-D2401 with P5010-35



ZWYR-D2402



ZWYR-D2401 with P5010-50



ZWYR-D2403 with P5017



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 1-50mm provides unmatched flexibility for meeting comprehensive application requirements. The sophisticated PID controller provides these units with choices of not only constant controlling one fixed temperature and speed, but also programmed controlling with a series of "ramps and soaks" segments on time basis. For data recording, the units are equipped with a built-in thermo printer as standard, so that operators could check how the performance parameters vary according to specified process without having to be on site.

► 4.3" LCD 480x272 touch screen panel clearly indicates all parameters in one page display and makes it easy to change the operating parameters settings, even those multi set points under programmable mode intuitively.

- ► P.I.D microprocessor controller provides unmatched versatility by enable users to create personalized program (with up to 9 segments, with cycling) to automate changes to function parameters.
- ► Inner chamber & tray from high graded #304 electropolished 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 setpoints.
- ► 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 Scree	4.3" LCD Touch Screen					
Volume (L)	69	69					
Shaking Speed (rpm)	30-600	30-400	30-240				
Stroke (mm)	1-50 Stepless Adjustn	1-50 Stepless Adjustment					
Shaking Mode	Orbital Reciprocal						
Tray (mm) (WxD)	400x370	400x370 435x420					
Ambient Temperature(°C)	5-25						
Temperature Range (°C)	Ambient - 20 to 60°C (Min.4°C)						
Temperature Accuracy (°C)	0.1						
Temperature Uniformity (°C)	±1°C@37°C						
Timer	0 to 9999 mins						
Inner Dimensions (mm) (WxDxH)	490x470x320	490x470x335	490x470x320				
Exterior Dimensions (mm) (WxDxH)	774x740x610	I					
Packing Dimensions (mm) (WxDxH)	860x850x760						
Net/Gross Weight (kg)	100/132						
Power (W)	700						
Electricity	220-240V 50/60 Hz						
Approval	CE, ISO						
Security	Over-temperature Pro	otection, Compressor Overload F	Protection, Electrical Leakage Protection				
Additional	Built-in Printer, RS48	5 COM Kit (Option)					

Capacity	P8001 50ml	P8002 100ml	P8003 250ml	P8004 500ml	P8005 750ml	P8006 1000ml	P8007 2000ml	P8010 Tube Rack S/S	P8012 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	11	9	4	3	8

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

ZWYR-240	ZWYR-240, 69L, Premium Orbital Shaking Incubator 4-60, 30-400rpm	P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
ZWYR-200D	ZWYR-200D,69L, Premium Orbital Shaking Incubator 4-60, 30-600rpm	P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
ZWFR-200	ZWFR-200,69L, Premium Reciprocal Shaking Incubator 4-60, 30-240rpm	P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P5016	RS-485 Interface	P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P5030	Fluorescent Light for ZWYR-240/200D, ZWY-240/200D	P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P5047	Stationary Shelf for ZWYR-240 (Max loading weight: 2kg)	P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P6034	Plain Tray for ZWY-240/200D; ZWYR-240/200D	P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P6004	Predrilled Tray for ZWYR-240/200D, ZWY-240/200D, S/S 🛠	P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P6005	Predrilled Tray for ZWFR-200, ZWF-200, S/S	P8007	T Clamp, S/S, for 2000ml Flask, with Spring Retainer
P7003	Universal Spring Pallet for ZWYR-240/200D, ZWY-240/200D	P8010	Tube Rack S/S
P7005	Universal Spring Pallet for ZWFR-200, ZWF-200	P8011	Tube Rack ABS Plastic
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer	P8012	Clamp for 96 Well Plate, S/S
		P8017	Sticky Mat, 20 x 20cm

✤ S/S: Stainless Steel



ZWYR-211C

ZWYR-211D

PREMIUM HORIZONTAL Shaking Incubators

ZWFR-211



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



► 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 setpoints.
- ► 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	P.I.D Microprocessor						
Control Mode	Fix Value or Program (up to 9 Segments)							
Control Panel	4.3" LCD Touch Screen	.3" LCD Touch Screen						
Door Opening Mode	Hand Hold	Foot Pedal	Hand Hold					
Volume (L)	260	300	275					
Working Temperature (°C)	5-25	'	'					
Shaking Speed (rpm)	30-300		30-240					
Stroke (mm)	Ø26		1-50 Stepless Adjustment					
Shaking Mode (°C)	Orbital		Reciprocal					
Tray (mm) (WxD)	920x500	940x584	896x530					
Temperature Range (°C)	Ambient - 20 to 60°C (Min.4°C)							
Temperature Accuracy (°C)	0.1							
Temperature Uniformity (°C)	±1°C@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 (kg)	255/308	263/325	290/354					
Power (W)	1150	1800	1150					
Electricity	220-240V 50/60 Hz							
Approval	CE, ISO							
Security	Over-temperature Protect	ion, Compressor Overload Protectior	n, Electrical Leakage Protection					
Additional	Built in Printer, RS485 Inte	erface (Option)						

Order Information

ZWYR-211C	ZWYR-211C, 260L, Premium Horizontal Shaking Incubator 4-60, 30-300rpm						
ZWYR-211D	ZWYR-211D, 300L, Premium Horizontal Shaking Incubator 4-60, 30-300rpm						
ZWFR-211	ZWFR-211, 300L, Premium Reciprocal Horizontal Shaking Incubator 4-60, 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, Ful Pcs						
P7008	Universal Spring Pallet for ZWYR-211D, Ful Pcs						
P7009	Universal Spring Pallet for ZWF-111/211, ZWFR-211, Ful Pcs						
P7022	Universal Spring Pallet for All Horizontal Model, 1/2 Pcs						
	* S/S: Stainless Steel						

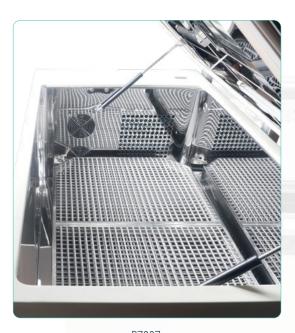
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	Order Information
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
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	Clamp for 96 Well Plate, S/S
P8017	Sticky Mat, 20 x 20cm
	× S/S ⁻ Stainless Steel

✤ S/S: Stainless Steel

Capacity	8001 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







PREMIUM DOUBLE LAYER Shaking Incubators





ZWYR-2112B

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, hybridization, biochemical research, enzyme and cellular tissues.

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

► 4.3"/5.6" LCD touch screen panel clearly indicates all parameters in one page display and makes it easy to change the operating parameters settings, even those multi set points under programmable mode intuitively.

► P.I.D microprocessor controller provides unmatched versatility by enable users to create personalized program (with up to 9 segments, with cycling) to automate changes to function parameters.

- ► Large double fold tempered glass window on the front doors together with the fluorescent light provide complete visibility of chamber interior.
- ► Mirror-finished high quality #304 stainless steel for excellent durability of interiors.
- ► Non-volatile memory for set point retention after power interruption.
- ► Robust triple eccentric counterbalanced drive in cast iron housing provides vibration and trouble free operation with high shaking speed up to 300rpm even when both layers are fully loaded.
- ► UV light reduces the air burden, keeping the chamber contamination free.

- Quality brushless AC inductive motor supports reliable, quiet and smooth shaking movements up to top speed even when fully loaded with 90 pieces of 250ml flasks (ZWYR-2112B, ZWFR-2112).
- ► Auto-defrosting system, ensuring long-terms non-frosting operation with low temperature setpoints.
- ► 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 (L)	170	330	580	580				
Working Temperature (°C)	5-25							
Shaking Speed (rpm)	30-300			30-240				
Stroke (mm)	26		35	1 to 50 Stepless Adjustment				
Shaking Mode	Orbital			Reciprocal				
Temperature (°C)	Ambient - 20 to 60°C (Min.4°	°C)						
Temperature Accuracy	±0.1°C	±0.1°C						
Temperature Uniformity	±1°C@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 (kg)	195/238	255/330	460/590	486/562				
Power (W)	1000	1050	1600	1600				
Electricity	220-240V 50/60 Hz							
Approval	CE, ISO							
Security	Over-temperature Protection	, Compressor Overload Prote	ction, Electrical Leakage Protection	n				
Additional	Built in Printer, RS-485 Interfa	ace (Option)						

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



	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-2102C, 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, Ful Pcs
P7013	Universal Spring Pallet for ZWY-1112B/2112B/ZWYR-2112B, Ful Pcs
P7014	Universal Spring Pallet for ZWF-1112/2112/ZWFR-2112, Ful Pcs
	# Stl S/C:Spray Coated Steel, * S/S: Stainless Steell
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P8007	T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P8008	T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P8009	T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P8010	Tube Rack S/S
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well Plate, S/S
P8017	Sticky Mat, 20 x 20cm





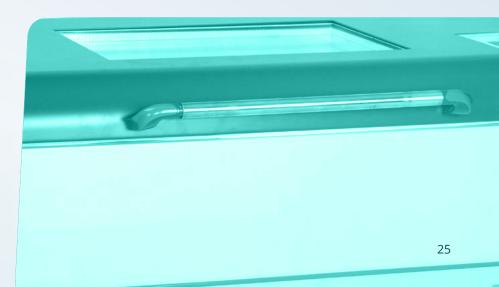
Units are equipped with a built-in thermo printer as standard.



The double layer shaking frame on the units supports two trays above each other, optimizing 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-240

ZWY-100H

ECONOMIC BENCHTOP Shaking Incubators

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

ZWY-103D

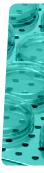
LABWIT shaking incubators are lab workhorses and provide "set and forget" programmable operating conditions and precise temperature performance for a variety of molecular biology techniques. The inner chamber is clearly visible from all angles across the room. The audible and visual alarms will alert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

- ▶ Various chamber sizes available from 34L, 63L to 69L
- Smooth and easy to clean design with tempered observation glass window.
- Inner chamber and tray from electro-polished stainless steel.
- ► Special low noise induction motor system enables high rotation speed up to 400rpm or 600rpm.
- Patented driver system allows stroke continuous adjustment from 1 to 50 mm.
- ► AC inductive motor, brushless and maintenance free.
- Auto defrosting system, ensuring long terms non frosting operation with low temperature setpoints.

- The combination of high speed and small diameter make ZWY-103D, ZWY-100D & ZWY-200D suitable for many applications involving microtitre plates.
- Microprocessor control with large LCD screen, showing set and actual parameters.
- Password protection against unauthorized change of parameters.
- Audible and visual alarms on over temperature and motor overheating.
- ▶ Soft start and smooth acceleration after lid opening.
- ▶ Timer up to 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-2001
Volume (L)	34	63	63	63	69	69	69
Shaking Speed (rpm)	30-600	30-400	30-600	30-240	30-240	30-400	30-600
Stroke	Ø1-50mm Stepl	ess Adjustment		40mm		Ø1-50mm Ste	pless Adjustmen
Shaking Mode	Orbital			Reciprocal		Orbital	
Tray (mm) (WxD)	280x220	340x370	340x370	346x400	435x420	400x370	400x370
Temperature Range	A+ 5 °C - 60°C			_	Ambient - 20 to	o 60°C (Min.4°C)	
Temperature Accuracy	±0.1°C						
Temperature Uniformity	≤±1°C@37°C						
Timer	0 - 9999 mins						
Flask Configurations	*Glass dimension	ons may reduce ma	x. capacity				
50 ml	16	30	30	30	47	30	30
100 ml	9	20	20	23	28	23	23
250 ml	6	11	11	11	15	12	12
500 ml	-	9	9	9	11	9	9
750 ml	-	5	5	6	9	7	7
1000 ml	-	5	5	5	9	7	7
2000 ml	-	-	-	-	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	600x580x520 730x740x560				
Packing Dimensions (mm) (WxDxH)	530x520x560	690x680x700			810x850x760		
Net / Gross Weight (kg)	42/57	72/92	72/97	77/97	100/132	100/132	100/132
Power (W)	280	550	550	550	700	700	700
Electricity	220-240V 50/60) Hz					
Approval	CE, ISO						

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



	Order Information
P6001	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, Spring 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	Clamp for 96 Well Plate, S/S
P8017	Sticky Mat, 20 x 20cm

☆ S/S: Stainless Steel





ECONOMIC HORIZONTAL Shaking Incubators ZWY-211C



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 $\pm 1.0^{\circ}$ 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 unauthorized change of parameters.
- Audible and visual alarms for motor temperature and set point deviations.

- Non-volatile memory for set point retention after power interruption.
- "Long-Life" brushless AC motor creates smooth, quiet and uniformed shaking motion.
- 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, ZWF-111/211)
- ► UV light reduces the air burden, keeping the chamber contamination free.

Model	ZWY-111B	ZWY-211B	ZWY-111C	ZWY-211C	ZWF-111	ZWF-211	
Volume (L)	170	260		300			
Shaking Mode	Orbital		Orbital		Reciprocal		
Stroke (mm)	Ø26		Ø26	Ø26		ess Adjustment	
Temperature Range(°C)	A+5 to 60	Ambient - 20 to 60 (Min.4)	A+5 to 60	Ambient - 20 to 60 (Min.4)	A+5 to 60	Ambient - 20 to 60 (Min.4)	
Temperature Accuracy	±0.1°C	±0.1°C					
Temperature Uniformity	≤±1°C@37°C						
Shaking Speed (rpm)	30-300		30-300		30-240		
Tray Dimension (mm)	920x500		920x500		896x530		
Flask Configuration *	*Glass dimensions	s may reduce max. cap	acity				
50ml	116		116	116		111	
100 ml	82		82		84		
250 ml	42		42	42		43	
500 ml	33		33		33		
750 ml	23		23		24		
1000 ml	18		18		15		
2000 ml	-		14		13		
3000 ml	-		10		8		
5000 ml	-		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 (kg)	159/219	174/233	240/293	255/308	270/334	290/354	
Power (W)	800	1050	950	1150	950	1150	
Electricity	220-240V 50/60 H	Z					
Approval	CE, ISO						

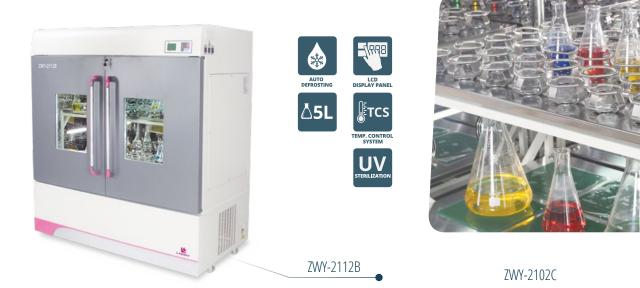


	Order Information
ZWY-111B	ZWY-111B, 170L, Economic Horizontal Shaking Incubator A+5-60, 30-300rpm
ZWY-211B	ZWY-211B, 170L, Economic Horizontal Shaking Incubator 4-60, 30-300rpm
ZWY-111C	ZWY-111C, 260L, Economic Horizontal Shaking Incubator A+5-60, 30-300rpm
ZWY-211C	ZWY-211C, 260L, Economic Horizontal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

P6006	Predrilled Tray for ZWY-111B/211B/111C/211C/ZWYR-211C, S/S 🗴	P8014	T Clamp, S/S, for 300ml Flask, with Spring Retainer
P6008	Predrilled Tray for ZWF-111/211/ZWFR-211, S/S	P8004	T Clamp, S/S, for 500ml Flask, with Spring Retainer
P6043	Plain Tray for ZWY-111B/211B/111C/211C, ZWYR-211C, S/S	P8005	T Clamp, S/S, for 750ml Flask, with Spring Retainer
P6045	Plain Tray for ZWF-111/211, ZWFR-211, S/S	P8006	T Clamp, S/S, for 1000ml Flask, with Spring Retainer
P7007	Universal Spring Pallet for:	P8007	T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P7007	ZWY-111B/211B/111C/211C/ZWYR-211C, Ful Pcs	P8008	T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P7009	Universal Spring Pallet for ZWF-111/211, ZWFR-211, Full Pcs	P8009	T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P7022	Universal Spring Pallet for All Horizontal Model, 1/2 Pcs	P8010	Tube Rack S/S
P8001	T Clamp, S/S, for 50ml Flask, with Spring Retainer	P8011	Tube Rack ABS Plastic
P8002	T Clamp, S/S, for 100ml Flask, with Spring Retainer	P8012	Clamp for 96 Well Micro Plate, S/S
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer	P8017	Sticky Mat, 20 x 20cm
P8003	T Clamp, S/S, for 250ml Flask, with Spring Retainer		✤ S/S: Stainless Steel



ZWF-211



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 unauthorized change of parameters.
- Audible and visual alarms for over-temperature and set point deviations.
- Non-volatile memory for set point retention after a power interruption.
- 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 unauthorized access at all times.
- UV light reduces the air burden, keeping the chamber contamination free.

Model	ZWY-1102C	ZWY-2102C	ZWY-1102	ZWY-2102	ZWY-1112B	ZWY-2112B	ZWF-1112	ZWF-2112
Volume (L)	170		330		580		580	
Shaking Mode	Orbital		Orbital		Orbital		Reciprocal	
Temperature (°C)	A +5 to 60	Ambient - 20 to 60 (Min.4)	A +5 to 60	Ambient - 20 to 60 (Min.4)	A +5 to 60	Ambient - 20 to 60 (Min.4)	A +5 to 60	Ambient - 20 to 60 (Min.4)
Temperature Accuracy	±0.1°C							
Temp. Uniformity	≤±1°C@37°C							
Stroke (mm)	26		26		35		1 to 50 Stepless Adjustment	
Speed (rpm)	30-300		30-300		30-300		30-240	
Tray (mm) (WxD)	496x350		734x458		970x560		940x580	
Capacity	*Glass dimensior	ns may reduce max.	capacity					
50 ml	78		118		262		252	
100 ml	56		104		200		190	
250 ml	36		64		110		118	
500 ml	24		54		76		80	
750 ml	18		30		52		48	
1000 ml	б*		30		44		40	
2000 ml	4*		8*		15*		15*	
3000 ml	3* 7* 10*		10*	10*				
5000 ml	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 (kg)	180/223	195/238	235/305	255/330	445/555	460/590	470/580	486/596
Power (W)	1000	1250	1050	1300	1600	1950	1600	1950
Electricity	220-240V 50/60 Hz							
Approval	CE, ISO							

* Applies only when single layer shaking frame is equipped.

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



P5001	Frame for ZWY-1102C/2102C, ZWYR-2102C, 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, Ful Pcs
P7013	Universal Spring Pallet for: ZWY-1112B/2112B, ZWYR-2112B, Ful Pcs
P7014	Universal Spring Pallet for ZWF-1112/2112, ZWFR-2112, Ful Pcs
	# Ctl C/C:Corry Costad Staal at C/C: Stainlass Staal

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

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

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.







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. one unique feature of this unit is ZWQ-344 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 unauthorized 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 (kg)	3.5	3.5	4			
Overall Dimensions (mm) (WxDxH)	400x350x235	400x350x160	400x360x185			
Packing Dimensions (mm) (WxDxH)	490x490x420	480x430x400	480x430x400			
Net / Gross Weight (kg)	25/37	21/31	10/20			
Safety Features	Non-volatile Memory, Power-off F	Recovery, Timer				
Power (W)	50					
Electricity	220-240V 50/60 Hz	220-240V 50/60 Hz				
Approval	CE, ISO					

Clamp Tray	P8001	P8002	P8003	P8004	P8005	P8006	P8007	P8008	P8009	P8010	P8012
	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	3000ml	5000ml	Tube Rack S/S	96 WellPlate
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, 20-80 tpm	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 Trayx1, Rubber Barx4, Knobx8	P8010	Tube Rack S/S
P6018	Tray for ZWQ-344, Stl S/C# Trayx1, Springx4, Rubber Matx1	P8011	Tube Rack ABS Plastic
P7017	Universal Spring Tray for ZWY-304/ZWF-334	P8012	Clamp for 96 Well Plate, S/S
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 #Stl S/C:Spray Coated Steel





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 unauthorized 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 minimizes the risk of un controlled 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 (mm)	Ø35		Ø50				
Speed (rpm)	30-300						
Speed Variation (rpm)	±1						
Timer	0 to 999 hours						
Number of Trays	1	2	1	2			
Tray (mm) (WxD)	940x700						
Flasks Configurations*	*Glass dimensions ma	ay reduce max. capacity					
50 ml	131	262	131	262			
100 ml	100	200	100	200			
250 ml	61	122	61	122			
500 ml	52	104	52	104			
750 ml	37	74	37	74			
1000 ml	30	60	30	60			
2000 ml	19*	-	19*	-			
3000 ml	12*	-	12*	-			
5000 ml	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 (kg)	280/335	310/370	330/425	350/450			
Power (W)	300			1			
Electricity	220-240V 50/60 Hz						
Approval	CE, ISO						

Order Information

ZWY-322B	ZWY-322B, Single Layer, Orbital Floor Shaker, 35mm, 30-300rpm	P8001	Clamp, S/S, for 50ml Flask, with Spring Retainer
ZWY-3222B	ZWY-3222B, Double Layer, Orbital Floor Shaker, 35mm, 30-300rpm	P8002	Clamp, S/S, for 100ml Flask, with Spring Retainer
ZWY-322C	ZWY-322C, Single Layer, Orbital Floor Shaker, 50mm, 30-300rpm	P8013	Clamp, S/S, for 150ml Flask, with Spring Retainer
ZWY-B3222	ZWY-B3222, Double Layer, Orbital Floor Shaker, 50mm, 30-300rpm	P8003	Clamp, S/S, for 250ml Flask, with Spring Retainer
P5006	Single Layer Shaking Frame for ZWY-322B/3222B, Stl S/C	P8014	Clamp, S/S, for 300ml Flask, with Spring Retainer
P5008	Single Layer Shaking Frame for ZWY-322C/ B3222, Stl S/C	P8004	Clamp, S/S, for 500ml Flask, with Spring Retainer
P6020	Predrilled Tray for ZWY-322B/3222B Stl S/C	P8005	Clamp, S/S, for 750ml Flask, with Spring Retainer
P6021	Predrilled Tray for ZWY-322C/B3222 Stl S/C	P8006	Clamp, S/S, for 1000ml Flask, with Spring Retainer
P6048	Plain Tray for ZWY-322B/3222B Stl S/C	P8007	Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer
P6049	Plain Tray for ZWY-322C/B3222 Stl S/C	P8008	Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer
P7019	Universal Spring Pallet for ZWY-322B/3222B	P8009	Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer
P7020	Universal Spring Pallet for ZWY-322C/B3222	P8010	Tube Rack S/S 🛠
P7022	Universal Tray for All Horizontal Model, 1/2 Pcs	P8011	Tube Rack ABS Plastic
		P8012	Clamp for 96 Well Plate, S/S

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

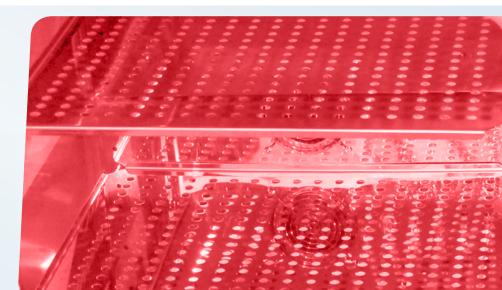


OVENS & INCUBATORS

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 optimized temperature uniformity across the inner chambers. The direct heating CO_2 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 sterilization applications to complex controlled heating applications.





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DIRECT HEATING CO₂ Incubator

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The LABWIT ZOCR Series CO_2 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.

ZOCR-1160



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

41

Touch Screen Panel

1. Decon

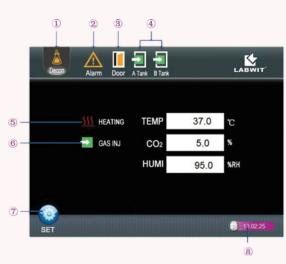
Start / stop Decon Cycle

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. CO, 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

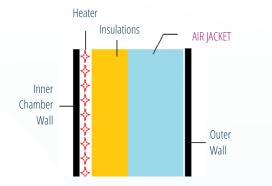
The chamber design combines direct heating and air jacket elements resulting in efficient thermal isolation of the chamber, rapid temperature recovery and superior protection of samples from ambient temperature fluctuations.

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 minimizing 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.



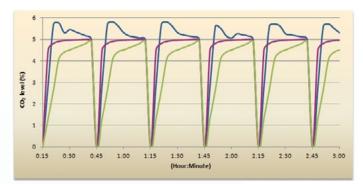
The closed-loop HEPA filtration system is located outside the chamber, unaffected by the chamber's 140°C high-temperature sterilization program.

World Class Infrared (IR) CO₂ Sensor

LABWIT incorporates a single beam, dual wavelength IR CO_2 sensor, providing the most accurate measurement of CO_2 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 electropolished easy-to-clean stainless steel. All coved corners minimizes the unnecessary chamber surfaces where contaminants can hide.

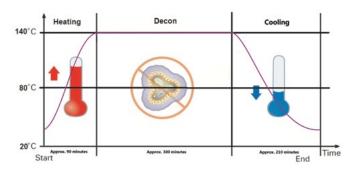
The Fan-less chamber design not only eliminates the circulating fan, which are prone to contamination and create numerous difficult-to-clean dead corners in traditional CO_2 incubators, facilitating cleaning and optimizing the sterile chamber, but also significantly increases the actual usable space of the inner chamber.

Safety Features

- Non-volatile memory guarantees data integrity in the event of power interruption.
- Over-temperature protections unit: alarms when temperature deviation is detected, and heaters are cut off when the temperature is overshot by 3°C.
- ► CO₂ deviation alarm protects the pH value of the culture media.
- ► CO₂ supply is interrupted upon door opening to avoid unnecessary gas waste.
- ► Audio and visual alarm reminds of low supply of CO₂ gas.

140°C Decontamination Cycle

The ZOCR 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 sterilized and ready for a new application after an 10-hour overnight, maintenance free Decon Cycle.



- ► Alarms provide optimum protections over all sensor failures.
- ▶ Over-current and leakage protection.
- ► Lockable outdoor protects biohazard samples from un authorized access.
- ► CO₂ tank backup system(Optional): integrated gas tank switcher allows the connection of two CO₂ gas supplies.

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+5-60, 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 unauthorized 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.











InterfactTemperatureHeating ModeDirect Heats Akr JacketControl MethodPLD MicroprocessorTemperature Range (C)Ambient 5 lo 60Temperature Runang (C)260 2Ambient Temperature Runang (C)260 2Ambient Temperature Range (C)0.935CO, Control MethodPLD MicroprocessorCO, Control MethodPLD MicroprocessorCO, Sange (% CO)20.0CO, Accuracy (% CO)26.0Munidify Range (RR)Up 95% 8/37CHumidify Bisplay Resolution (RR)Up 95% 8/37CHumidify Bisplay Resolution (RR)0.0Munidify Range (RR)10.0Contamination Control MethodHigh Temperature 140°C Decon CycleContamination Control MethodHigh Temperature 140°C Decon CycleControl Range (RR)0.0Control Range (RR)0.0Munidify Range (RR)0.0Munidify Range (RR)0.0Munidify Display Resolution (RR)0.0Control Range (RR)0.0Munidify Range (RR)0.0 <th>Model</th> <th>ZOCR-1160</th>	Model	ZOCR-1160
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Ambient Temperature Range (°C) 10-35 CO, CO, CO, Control Method PLD Microprocessor CO, Range (% CO,) 0-20 CO, Accuracy (% CO,) issue CO, Control Method Water Pan Humidity Control Method Up to 95% @37°C Humidity Display Resolution (RH) 0.01 Contamination Control Control Contamination Control Mitro Printer Ad9°C Decon Cycle Option In-line HEPA Filter for CO, Injection Control Ing system Circulation Mode Fan-less, Closed Loop HEPA Filteration Cortrol Panel S.6° TET Touch Screen Con & Option metion existence Option, with Low Gas Supply, All Sensor Failures, Printer Failure CO Jono, with Low Gas Supply Alarr, Auto Switch Option Option, Wathow Gas Supply Alarr, Auto Switch Control Panel Modbus TCP/IP Pott Option, Wathow Gas Supply Alarr, Auto Switch Option Control Panel	Temperature Uniformity (°C)	≤±0.3 @37°C
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Contamination Control MethodsHigh Temperature 140°C Decon Cycle0.3 Micron In-line HEPA Filter for C0, Injection0.3 Micron In-line HEPA Filter for C0, InjectionControl Ig systemFan-less, Closed Loop HEPA FiltrationControl Panel5.6" TFT Touch ScreenAlarmsDevice remperature, Low & Over C0, Deviation, Door Ajar, Low Gas Supply, All Sensor Failures, Printer FailureCO2, Tank Backup SystemOption, with Low Gas Supply Alarm, Auto SwitchOption, Built-inOption, Built-inModbus TCP/IP PortOption, Built-inSB2.D O portOptionOptionGasak56 x 650Exterior Dimensions (WxDxH)(mm)603 x 456 x 650Packing Dimensions (WxDxH)(mm)850 x 830x 1220Net/Gross Weight (Kg)110/130Number of Shelves (Std/Max)3/10Shelves Size (WxD) (mm)530 x 400Size (WxD) (mm)530 x 400Concel Capacity120/240 volt 50/60 HzLinernal Fileetrictiy1200/W	Humidity Display Resolution (RH)	0.01
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Net/Gross Weight (Kg) 110/130 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 400 220/240 Volt 50/60 Hz 1200W	Exterior Dimensions (WxDxH)(mm)	720 x 710 x 980
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Number of Shelves (Std/Max) 3/10 Max. Load (Kg) 10/Shelf; 25/Unit Shelves Size (WxD) (mm) 530 x 400 220/240 Volt 50/60 Hz 220/240 Volt 50/60 Hz Electricity 1200W	Net/Gross Weight (Kg)	110/130
Max. Load (Kg) 10/Shelf; 25/Unit Shelves Size (WxD) (mm) 530 x 400 Power (W) 220/240 Volt 50/60 Hz Electricity 1200W	Door Type	Left/Right Reversible
Shelves Size (WxD) (mm) 530 x 400 Power (W) 220/240 Volt 50/60 Hz Electricity 1200W	Number of Shelves (Std/Max)	3/10
Power (W) 220/240 Volt 50/60 Hz Electricity 1200W	Max. Load (Kg)	10/Shelf; 25/Unit
Electricity 1200W	Shelves Size (WxD) (mm)	530 x 400
	Power (W)	220/240 Volt 50/60 Hz
Approval CE, ISO	Electricity	1200W
	Approval	CE, ISO







DIRECT HEATING Incubators



ZXDP-series 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 $+5^{\circ}$ C to 65° C. With an accuracy of $\pm 0.1^{\circ}$ 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-vol-atile 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.

ZXDP-B2080

► 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 ±0.5°C@37°C.
- ► Audible and visible alarm on over temperature.
- ► Password protection against unauthorized 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 Ge	Direct Heat (With Gentle Circulation)						
Volume (L)	50	80	160	270				
Temperature	Ambient+ 5 to 65°C		·					
Temperature Accuracy	±0.1°C.							
Temperature Uniformity	±0.5°C@37°C							
Alarm	Enabled							
Timer	0-9999 mis							
Setting	Digital	Digital						
Display	LCD	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 (kg)	33/57	40/73	63/102	63/140				
Power (W)	200	250	380	550				
Electricity	220-240V 50/60 Hz							
Approval	CE, ISO							

	Order Information
ZXDP-B2050	ZXDP-B2050,50L, Direct Heat Incubator, A+5-65°C
ZXDP-B2080	ZXDP-B2080,80L, Direct Heat Incubator, A+5-65°C
ZXDP-B2160	ZXDP-B2160,160L, Direct Heat Incubator, A+5-65°C
ZXDP-B2270	ZXDP-B2270,270L, Direct Heat Incubator, A+5-65°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





WATER JACKET Incubators

ZXGP incubators offer an economical incubation method to a variety of micro-organism cultures with high uniformed 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 Gen	tle Circulation)	
Volume (L)	80	160	270
Temperature	Ambient+ 5 to 65°C		
Temperature Accuracy	±0.1°C.		
Temperature Uniformity	±0.5°C@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	580×595
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 (kg)	45/69	78/105	115/145
Power (W)	640	1140	1740
Electricity	220-240V 50/60 Hz		
Approval	CE, ISO		

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



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.

- \blacktriangleright 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 ±1.0°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 configurations; a double layer tempered glass observe window in outer door, an inner glass door, forced air circulation, a fluorescent lamp, 50 mm test 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 (L)	90	160	270	430					
Door Type	Outer door with observ	Outer door with observation window, and heat resistance glass inner door							
Temperature Range (°C)	4 to 65								
Temperature Accuracy (°C)	0.1								
Temperature Uniformity (°C)	±1.0 @37°C								
Alarm	Enabled								
Timer (min)	0 - 9999 mins	D - 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 (kg)	68/112	98/155	153/203	180/240					
Power (W)	710	860	950	1350					
Electricity	220-240V 50/60 Hz	220-240V 50/60 Hz							
Approval	CE, ISO								

		Order Information
	ZXSD-R1090	ZXSD-R1090, 90L, Premium Cooled BOD Incubator, 4-65°C
	ZXSD-R1160	ZXSD-R1160,160L, Premium Cooled BOD Incubator, 4-65°C
_	ZXSD-R1270	ZXSD-R1270,270L, Premium Cooled BOD Incubator, 4-65°C
_	ZXSD-R1430	ZXSD-R1430,430L, Premium Cooled BOD Incubator, 4-65°C
_	P5016	RS-485 Interface
_	P5021	RS-232 Interface

P5022

P9010

P9011

P9012

P9013

UV Lighting, 8W, for ZXSD/ZXSP Series

Grid Plate for ZXSD-B1090, ZXSD-R1090, S/S 🛠

Grid Plate for ZXSD-B1160, ZXSD-R1160, S/S

Grid Plate for ZXSD-B1270, ZXSD-R1270, S/S

Grid Plate for ZXSD-B1430, ZXSD-R1430, S/S

☆ S/S: Stainless Steel



ZXSD-R1160



PREMIUM LOW TEMPERATURE **Incubators**



These premium incubators of the ZXSP-R series features 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 coved 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 ±1.0°C@37°C.
- ► Air tight outer door design ensures optimized 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 configurations; forced air circulation, a fluorescent lamp, 50 mm test port and 2 grids, built-in printer.
- ▶ No inner glass door is included.

Model	ZXSP-R0160	ZXSP-R0270	ZXSP-R0430	
Volume (L)	160	270	430	
Door Type	Single door with high-	density insulation		
Temperature Range (°C)	-10 to 65			
Temperature Accuracy (°C)	0.1			
Temperature Uniformity (°C)	±1.0 @37°C			
Alarm	Enabled			
Timer (min)	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 (kg)	100/160	153/190	180/240	
Power (W)	860	950	1350	
Electricity	220/240 Volt 50/60 Hz	<u>!</u>		
Approval	CE, ISO			

	Order Informat
ZXSP-R0160	ZXSP-R0160,160L, Pi
ZXSP-R0270	ZXSP-R0270,270L, P
ZXSP-R0430	ZXSP-R0430,430L, P
P5016	RS-485 Interface
P5021	RS-232 Interface

	Order Information	
ZXSP-R0160	ZXSP-R0160,160L, Premium Low Temperature BOD Incubator, -10-65°C	
ZXSP-R0270	ZXSP-R0270,270L, Premium Low Temperature BOD Incubator, -10-65°C	
ZXSP-R0430	ZXSP-R0430,430L, Premium Low Temperature BOD Incubator, -10-65°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	

7XSP-R0270



ECONOMIC BOD Incubators



The BOD incubators of the ZXSD-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-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 ±1.0°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 unauthorized 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, 50 mm test port and 2 grids.

► Optional built-in printer, UV Lamp, RS-232 interface available.

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Model	ZXSD-B1090	ZXSD-B1160	ZXSD-B1270	ZXSD-B1430	
Volume (L)	90	160	270	430	
Door Type	Outer door with obs	ervation window, and hea	t resistance glass inner do	or	
Temperature Range (°C)	4 to 65	to 65			
Temperature Accuracy (°C)	0.1	0.1			
Temperature Uniformity (°C)	±1.0 @ 37°C	±1.0 @ 37°C			
Alarm	Enabled				
Timer (min)	0 - 9999 mins) - 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 (kg)	68/112	98/155	153/203	180/240	
Power (W)	710	860	950	1350	
Electricity	220-240V 50/60 Hz				
Approval	CE, ISO				

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	Order Information	
ZXSD-B1090	ZXSD-B1090,90L, Economic Cooled BOD Incubator, 4-65°C	
ZXSD-B1160	ZXSD-B1160,160L, Economic Cooled BOD Incubator, 4-65°C	
ZXSD-B1270	ZXSD-B1270,270L, Economic Cooled BOD Incubator, 4-65°C	
ZXSD-B1430	ZXSD-B1430,430L, Economic Cooled BOD Incubator, 4-65°C	Final Territory
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



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-series humidity incubators are specialized 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 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.

 \blacktriangleright 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 ± 1.0°C @ 37°C.

► 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.

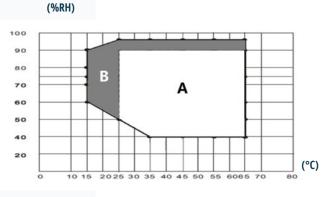
► Independent device for over temperature, high current flow and electric leakage.

► Standard 2 grids & built-in printer included, optional RS-485 interface available.

▶ Real time electronic timer from 0 to 9999 mins.

Model	ZXMP-R1150	ZXMP-R1230	ZXMP-R1430	
Volume (L)	150	230	430	
Temperature Range (°C)	4 to 65	·	· · · · · · · · · · · · · · · · · · ·	
Temperature Accuracy (°C)	0.1	.1		
Temperature Uniformity (°C)	±1.0 @37°C	±1.0 @37°C		
Humidity Range (%RH)	40-90	40-90		
Humidity Accuracy (%RH)	0.1	.1		
Humidity Uniformity (%RH)	±5	5		
Alarm	Enabled			
Timer (min)	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 (kg)	105/158	130/205	180/240	
Power (W)	1500	1600	2500	
Electricity	220-240V 50/60 Hz			
Approval	CE, ISO			

	Order Information
ZXMP-R1150	ZXMP-R1150,150L, Premium Humidity Incubator, 4-65°C, 40-90%RH
ZXMP-R1230	ZXMP-R1230,230L, Premium Humidity Incubator, 4-65°C, 40-90%RH
ZXMP-R1430	ZXMP-R1430, 430L, Premium Humidity Incubator, 4-65°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



Humidification System Tank

A: Guaranteed working range B: Recommended Time-limited operation (max. 24 hours)







DRYING **Oven** ZXFD-B5140



ZXRD-B5110 ZXRD-

ZXRD-A7140

The LABWIT forced air drying ovens are engineered for your daily work, from routing simple glassware drying sterilization applications up to 200°C or 300°C, to the complex, controlled heating applications, for example, aging, 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 of them 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, optimizes sample monitoring as well as minimize 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 (L)	55	110	210	80	140	230
Heating Mode	Back Heating		·		Ċ	
Programmable Control (9Segment/18 steps)	Standard					
Temperature Range (°C)	Ambient+5 to 200				Ambient+5 to 30	0
Temperature Accuracy (°C)	0.1					
Temp. Uniformity (%)	< ± 2.5% (@max t	< ± 2.5% (@max temperature)				
Display	LCD	LCD LED				
Alarm	Enabled	Enabled				
Timer (min)	0 - 9999 mins	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)	610x630x1040	690x665x1230	770x820x1430	650x590x1130	720x670x1255	790x800x1460
Net/Gross Weight (kg)	50/71	61/104	98/143	58/98	70/104	104/155
Power (W)	1300	2100	2500	2100	2300	2700
Electricity	220-240V 50/60 H	Z				
Approval	CE, ISO					



Specifications of ZXFD (Bottom Heating)

Model	ZXFD-B5090	ZXFD-B5140	ZXFD-B5250	ZXFD-B5430	ZXFD-B5600	
Volume (L)	90	140	250	430	600	
Heating Mode	Bottom Heating					
Programmable Control (9Segment/18 steps)	Yes, Standard					
Temperature Range (°C)	A+5 to 200	A+5 to 200				
Temperature Accuracy (°C)	0.1					
Temperature Uniformity (%)	<± 2.5% (@max t	emperature)				
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	596x694	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)	670x690x1070	770x720x1190	880x810x1430	990x900x1660	1090x1050x1780	
Net/Gross Weight (kg)	55/98	80/115	108/145	170/253	210/280	
Power (W)	1500	2100	2500	2700	2900	
Electricity	220-240V 50/60 H	łz				
Approval	CE, ISO					

	Order Information
ZXRD-B5030	ZXRD-B5030,30L, Back Heating Oven, A+5-200°C
ZXRD-B5055	ZXRD-B5055,55L, Back Heating Oven, A+5-200°C
ZXRD-B5110	ZXRD-B5110,110L, Back Heating Oven, A+5-200°C
ZXRD-B5210	ZXRD-B5210,210L, Back Heating Oven, A+5-200°C
ZXRD-A7080	ZXRD-A7080,80L, Back Heating Oven, A+5-300°C
ZXRD-A7140	ZXRD-A7140,140L, Back Heating Oven, A+5-300°C
ZXRD-A7230	ZXRD-A7230,230L, Back Heating Oven, A+5-300°C
ZXFD-B5090	ZXFD-B5090,90L, Bottom Heating Oven, A+5-200°C
ZXFD-B5140	ZXFD-B5140,140L, Bottom Heating Oven, A+5-200°C
ZXFD-B5250	ZXFD-B5250,250L, Bottom Heating Oven, A+5-200°C
ZXFD-B5430	ZXFD-B5430,430L, Bottom Heating Oven, A+5-200°C
ZXFD-B5600	ZXFD-B5600,600L, Bottom Heating Oven, A+5-200°C
	✤ S/S: Stainless Steel

P9017	Grid Plate for ZXRD-B5030, S/S 🛠
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.

The 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 $\pm 0.1^{\circ}$ C by a P.I.D microprocessor controller for optimum, reproducible bath conditions.





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 liters 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 $\pm 0.1^{\circ}$ C with P.I.D temperature controller.

► Circulating pump direct water flows around bath perimeter for fast heating and better uniformed temperature control, $\pm 0.2^{\circ}$ (@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 minimize 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 ±0.1°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 minimize 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.

Personal Mini Water Baths

- ▶ Personal sized tank of 5.5 L.
- ► Stainless steel interior tank and powder coated corrosion resistant exterior case.

► Easy-to-read LED digital display provides a user-friendly interface which helps minimize errors in establishing running conditions.

- ▶ High precision temperature sensor probe.
- ► Precise temperature control with P.I.D microprocessor controller.
- ▶ High-density insulation minimizes heat losses.
- ► Electro-polished perforated diffuser made of SUS304 stainless steel as standard.











Model	ZSQ-3	ZSBB-712	ZSBB-724	ZSBB-726	ZSBB-728	ZSXH-618	ZSXH-625				
Volume(L)	5.5	8	16	24	32	18	25				
Temperature	Ambient-99.9°C	nbient-99.9°C									
Control	P.I.D Microproce	ssor									
Temperature Accuracy	±0.1°C										
Circulation Pump	No					Yes					
Cemperature Uniformity	±0.5°C@37°C					±0.2°C@37°C					
Lid	None	Ring Set				Gable Lid					
Compartments	1	2x1	2x2	3x2	4x2	1					
Timer	1 - 99 hours, 59 r	nins									
Setting	Digital	Digital									
Display	LED										
Power (W)	500	500	1000	1500	2000	1500	2000				
Tank Dimensions (mm) (WxDxH)*	Ø220x150	320x160x160	320x320x160	480x320x160	640x320x160	350x300x225	400x320x250				
Exterior Dimensions (mm) (WxDxH)*	320x260x300	575x225x235	575x385x235	735x385x235	895x385x235	735x365x385	785x385x420				
Packing dimensions (mm) (WxDxH)	420x350x420	645x295x395	645x455x395	645x455x395 805x455x395 96		840x430x540	890x450x575				
Net/Gross Weight (kg)	6/13	8/13	14/21	20/29	22/33	22/32	28/40				
Electricity	220/24 Volt - 50	/60 Hz	·			- ·					
Approval	CE, ISO										

* Tank height includes perforated diffuser height of 50mm.

	Order Information
ZSQ-3	ZSQ-3, 5L Water Bath, 1, A-99.9°C
ZSBB-712	ZSBB-712, 8L Water Bath, 2x1, A-99.9°C
ZSBB-724	ZSBB-724, 16L Water Bath, 2x2, A-99.9°C
ZSBB-726	ZSBB-726, 24L Water Bath, 3x2, A-99.9°C
ZSBB-728	ZSBB-728, 32L Water Bath, 4x2, 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-712







RECIPROCAL SHAKING Water Baths



► Heat loss and evaporation is minimized with the use

of finely electro-polished stainless steel gabled lid cover,

► High quality #304 stainless steel for excellent durability

Standard stainless steel tray, without clamps.

standard on ZWY series units.

of interiors and its parts.

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 $\pm 0.1^{\circ}$ 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.

TCS

- ► 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 ±0.1°C with P.I.D temperature controller.
- ► Easy-to-read LCD digital display provides a user-friendly interface which helps minimize errors in establishing running conditions.
- Non-volatile memory retains preset parameters during a power failure and restarts unit automatically after the power is restored.





Model	ZWY-110X30	ZWY-110X50					
Volume (L)	30	50					
Gable Lid Included	Yes	Yes					
Shaking Mode	Reciprocal						
Temperature Range (°C)	Ambient-99.9						
Temperature Accuracy	±0.1°C						
Temperature Uniformity	±0.2°C@37°C 100rpm						
Timer	0 to 500 hours						
Stroke (mm)	16 (Default setting), 24						
Speed Range(rpm)	20-180						
Tray (mm) (WxD)	434x256 494x316						
Capacity *	* *Glass dimensions may reduce max. capacity						
50 ml	15	24					
100 ml	15	24					
250 ml	11	15					
500 ml	6	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 (kg)	29/40	33/49					
Power (W)	1600	2000					
Electricity	220-240V 50/60 Hz	· · · ·					
Approval	CE, ISO						

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

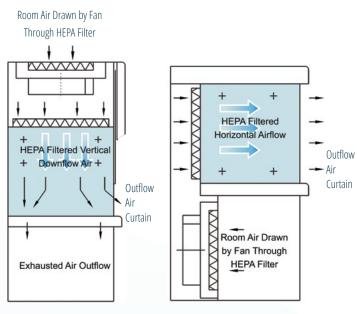
Vertical Flow VS Horizontal Flow

► 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.



Vertical Models

Horizontal Models

	Flue	orescent Lamp	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
-		UV Lamp	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Window Sash	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•
		Time Clock										•	•	•	•	•	•	•	•
		Timer										•	•	•	•	•	•	•	•
	Diffe	Pressure rential Display										•	•	•	•	•	•	•	•
-		Velocity Level Display	•	•	•	•	•	•	•	•	•								
-	Cor	nstant Velocity Control										•	•	•	•	•	•	•	•
-	V	elocity Display										•	•	•	•	•	•	•	•
-	Ve	locity Stepless Setting										•	•	•	•	•	•	•	•
-	_	HEPA Filter										•	•	•	•	•	•	•	•
-	BI	reakage Alarm HEPA Filter																	
11101	Inva	lidation Alarm										•	•	•	•	•	•	•	•
		LED Display	•	•	•	•	•	•	•	•	•								
		LCD Display										•	•	•	•	•	•	•	•
		Double Sided						•	•							•	•		
5		Single Sided	•	•	•	•	•			•	•	•	•	•	•			•	•
	H	orizontal Flow								•	•							•	•
		Vertical Flow	•	•	•	•	•	•	•			•	•	•	•	•	•		
		1800					•								•				
	(mm)	1500				•								•					
	Work Surface Width (mm)	1400							•								•		
	Surface	1200			•						•		•						•
	Work	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
					Econ	omic R	ange						P	remiur	n Rang	ge			

Clean Bench Model Summary



PREMIUM LAMINAR FLOW Clean Benches

ZHJH-C1112C

ZHIH-C1118C





LABWIT premium vertical flow clean bench is a series of high air purifying equipment with an intellectualized 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 minimizes 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.
- ▶ Front sash window easy for random positioning.
- ► Glass windows on left/right side.
- ► 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 r	unning before even	ry operation starts.					
Filter Efficiency	Fed Std 209E Cl	ass100 ISO 5						
Workroom Air Velocity	0.3-0.6 m/s (ste	epless)						
Velocity Precision	±0.05 m/s							
Illumination	Fluorescent ligh	t ≥ 300Lx						
UV-light	Standard							
HEPA Differential Pressure	0-500 Pa							
Work Area Dimensions (mm) (WxDxH)	900x625 x645	1200x625 x645	1500x625 x645	1800x625 x645	900x650 x645	1400x650 x645	900x590 x570	1200x590 x570
Exterior Dimensions (mm) (WxDxH)	1020x750 x1700	1320x750 x1700	1620x750 x1700	1920x750 x1700	1020x810 x1700	1520x810 x1700	1020x840 x1530	1320x840 x1530
Packing Dimensions (mm) (WxDxH)	1100x840 x1890	1440x840 x1890	1700x870 x1890	2000x840 x1890	1100x930 x1890	1600x930 x1890	1140x960 x1700	1440x960 x1700
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, 5	0/60 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-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 minimizes 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.

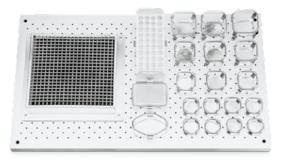
► A quiet and with 7 steps adjustable speed internal blower provides air velocity control.

- ► Glare free fluorescent lamp.
- ► Standard with UV-light.
- ► Stainless steel work surface.
- ► Combined base stand with castors.
- ► Glass windows on left/right side.
- ► Front sash window easy for random 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 Clas	is100 ISO 5						
Workroom Air Velocity	0.3-0.6 m/s (7 ste	0.3-0.6 m/s (7 steps adjustable)						
Velocity Precision	±0.05 m/s							
Illumination	Fluorescent light a	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







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 SUS 304 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 anodized aluminium, featuring threaded screw holes to fit with the specialized flask clamps with countersink screws.

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	Order Information				
P6001	Tray for ZWY-103B/D, S/S	P6041	Tray for ZWYR-293, ZWYC-293G, Plain		lain
P6002	Tray for ZWY-100H/100D, S/S	P6050	96 Well Plate Tray for ZWYC-293G, 530x435mm		, 530x435mm
P6004	Tray for ZWY-240/200D, ZWYR-240/200D, S/S		- 		
P6006	Tray for ZWY-111B/211B/111C/211C, ZWYR-211C, S/S		1		
P6007	Tray for ZWYR-211D, S/S	Ol	and -		
P6008	Tray for ZWF-111/211, ZWFR-211, S/S	CO TILO			
P6010	Tray for ZWY-1102C/2102C, ZWYR-2102C, S/S	ō 😂 🛛		6 -	<u> </u>
P6011	Tray for ZWY-1102/2102, ZWYR-2102, S/S		H H		
P6012	Tray for ZWY-1112B/2112B, ZWYR-2112B, S/S		P6016		P6023
P6013	Tray for ZWF-1112/2112, ZWFR-2112, S/S	<u> </u>	•	\	
P6014	Tray for ZWY-110X30, S/S	de a			
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 Trayx1, Rubber Barx4, Knobx8				
P6018	Tray for ZWQ-344, Stl S/C Trayx1, with springx4, Rubber Matx1		DC017		
P6020	Tray for ZWY-322B/3222B Stl S/C		P6017		P6040
P6021	Tray for ZWY-322C/B3222 Stl S/C				
P6022	Tray for ZWYC-290A, Predrilled			St. B.	i Firmed Elimited
P6023	Tray for ZWYC-290A, Plain			fr of a	
P6024	Predrilled Tray for ZWYR-D2401/2402/2403				
P6025	Tray for ZWYR-D2401/2402/2403, Plain		DC010		DC0E0
P6040	Tray for ZWYR-293, ZWYC-293G, Predrilled		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.

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 Trav for ZWYR-D2401 P7007 Universal Tray for ZWY-111B/211B/111C/211C, ZWYR-211C, Ful Pcs P7008 Universal Tray for ZWYR-211D, Ful Pcs P7009 Universal Tray for ZWF-111/211, ZWFR-211, Ful Pcs P7011 Universal Tray for ZWY-1102C/2102C, ZWYR-2102C P7012 Universal Tray for ZWY-1102/2102, ZWYR-2102, Ful Pcs P7013 Universal Tray for ZWY-1112B/2112B, ZWYR-2112B, Ful Pcs P7014 Universal Tray for ZWF-1112/2112, ZWFR-2112, Ful Pcs 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

► 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.



P7012

Flask Clamps

► All flask clamp attachments are designed for various Erlenmeyer flasks, made of high-quality stainless steels. 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 customization 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
P8003	T Clamp, S/S, for 250ml 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
P8013	T Clamp, S/S, for 150ml Flask, with Spring Retainer
P8014	T Clamp, S/S, for 300ml 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				





P8011

P8012



"T" Clamps

► 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 18 : Tube Rack S/S, Φ18.5x52; for 15ml Falcon Tubes * P80 10 30: Tube Rack S/S, Φ30x20; 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, Φ14.5x60
P8010-15	Tube Rack S/S, Φ15x60
P8010-16	Tube Rack S/S, Φ16x60
P8010-17	Tube Rack S/S, Φ17.5x55
P8010-18	Tube Rack S/S, Φ18.5x52
P8010-20	Tube Rack S/S, Φ20x36
P8010-21	Tube Rack S/S, Φ21x36

P8010-22	Tube Rack S/S, Φ22.5x36
P8010-25	Tube Rack S/S, Φ25x24
P8010-30	Tube Rack S/S, Φ30x20
P8010-32	Tube Rack S/S, Φ32x17
P8010-35	Tube Rack S/S, Φ35x15
P8011	Tube Rack ABS Plastic
P8012	Clamp for 96 Well Plate, S/S, 128 x 86mm
P8032	O Clamp for 96 Well Plate, S/S, 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

► Univ The Stic

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 15-60°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.

Easy to Remove the Vessels

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

Specifications:

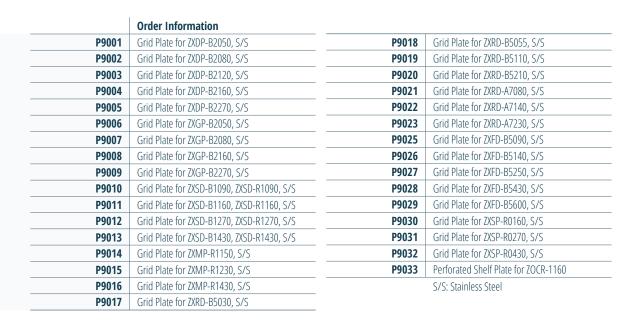
Only apply to flasks with filling volume 20%. Both flasks and Sticky Mat must be completely intact, clean, dry and free of grease. All information supplied without liability.

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 & Drying Ovens.
- ► Anti-tilt design with high quality stainless steel.



Shaking Frames & Other

	Gabel 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



Douoble Layer Shaking Frame

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	P5010-5	50







P5013

	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	

	LED Lighting Panels
P5011WW	LED Lighting Panel
	for ZWYR-D2401/D2402/D2403, ZWYC-290A, Warm White
P5011RB	LED Lighting Panel
POULIKD	for ZWYR-D2401/D2402/D2403, ZWYC-290A, Red & Blue
DE024MAAAA	LED Lighting Panel and Control Kit, Warm White
P5031WW	for ZWYR-293, ZWYC-293G
P5031RB	LED Lighting Panel and Control Kit, Red & Blue
	for ZWYR-293, ZWYC-293G

Others
Right Hinged Door, ZOCR-1160
Built-in Printer
Gas Tank Autoswitching Kit
Printer Paper Roll, 10 pcs
Direct Steam Humidification Kit for ZWYC-290A
IR CO ₂ Kit for ZWYC-290A
RS-485 Interface
50mm Shaking Orbit, for ZWY-2112B/1112B, ZWYR-2112B
RS-232 Interface
TCP/IP interface
Static Perforated Shelf for ZWY-1102/2102, ZWYR-2102C, H15cm
Static Perforated Shelf for ZWYC-290A, H15cm
Upward Door Opening for ZWYR-D2401/D2402/D2403
UV Lighting, 8W, for ZXSD/ZXSP Series
Flourescent Light for ZWYR-240/200D, ZWY-240/200D

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