

2018 Flagship Products

LABWIT[®] Stackable Shaking Incubators ZWYR-D2401, 2402, 2403

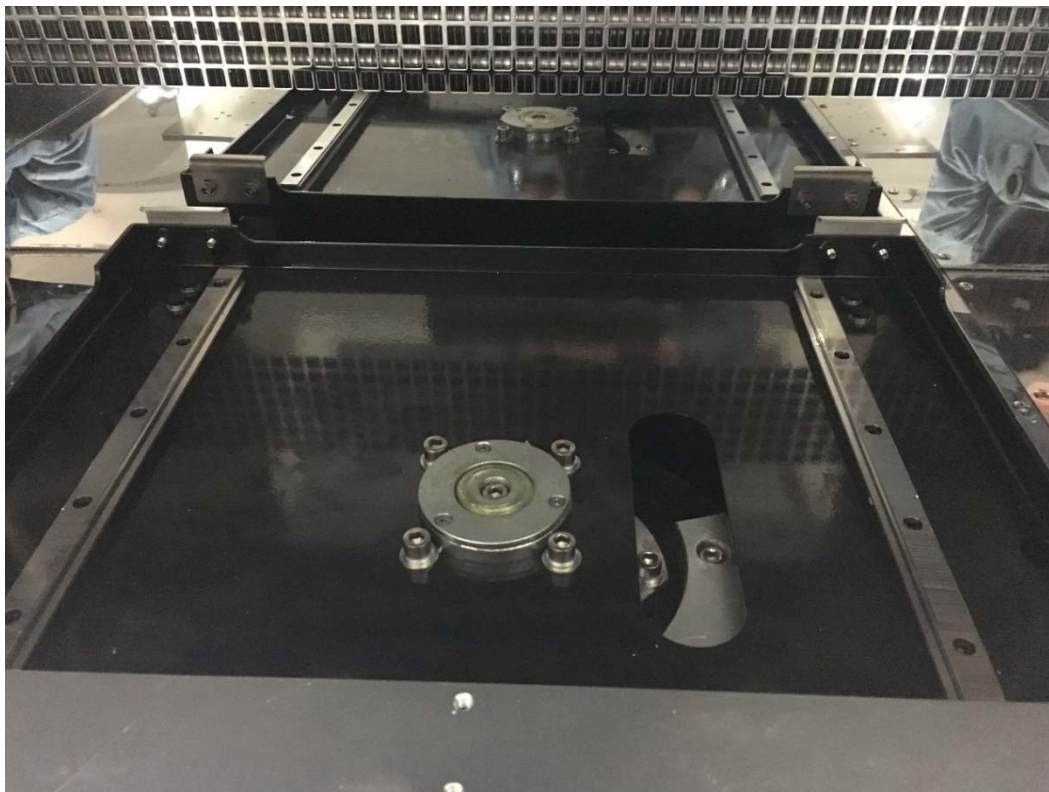
ZHICHENG[®] has launched the new stackable shaking incubators to replace the old ZHWY-A2005. The new instruments come with plenty of latest technology and features to meet customers ever rising expectations. They have gotten sleeker, with a new body and a new name (LABWIT[®]) that is supposed to change customers' perception of the brand.

The right photo shows model ZWYR-D2402 shaking incubator, two stacks. CE Marked by DNV.



Premium Quality

Consisting of high performance, heavy duty, single eccentric, counterbalance drive mechanism, the stackable shaking incubator is designed for lifetime durability. It ensures smooth and even shaking movement anywhere on the platform, regardless of load distribution of culturing vessels. The drive is protected from spills and the shaking incubator has a drain channel at its back for quick removal of any unwanted liquids.



The above photo shows the heavy duty, single eccentric counterbalance drive mechanism which ensures smooth

and even shaking movement anywhere on the platform. The shaking diameter can be changed in the range of 0~50mm by altering the position of the eccentric bearing.



5mm shaking diameter is usually recommended for microtitre plates, 25mm is universally accepted for the majority of applications, while 50mm is mostly used for large flasks more than 2L. By switching between different shaking diameters, customers can adjust the shaking incubator's characteristics to suit their diversified experimentations. (The above photo shows how to change the shaking diameter.)

(The right photo shows the drain channel at the back of the shaking incubator for quick removal of any unwanted liquids.)



Surrounded by the high density polyurethane foamed-in-place insulators from all sides, the inner chamber achieves highly efficient insulation. Precise PID Control together with an efficient circulating fan provides homogenous temperature distribution that guarantees reproducible cultivation results. The cleverly designed drop-down door and pull-out tray helps to make access easy to your cultivation vessels, the claw-like platform safety latches, slow soft start and exceptionally quiet operation create a friendly working environment in your lab.



Ergonomically designed drop-down door (above photo) and pull-out tray (below photo, next page) helps to make access easy to your cultivation vessels, the claw-like platform latches guarantees safety operation.



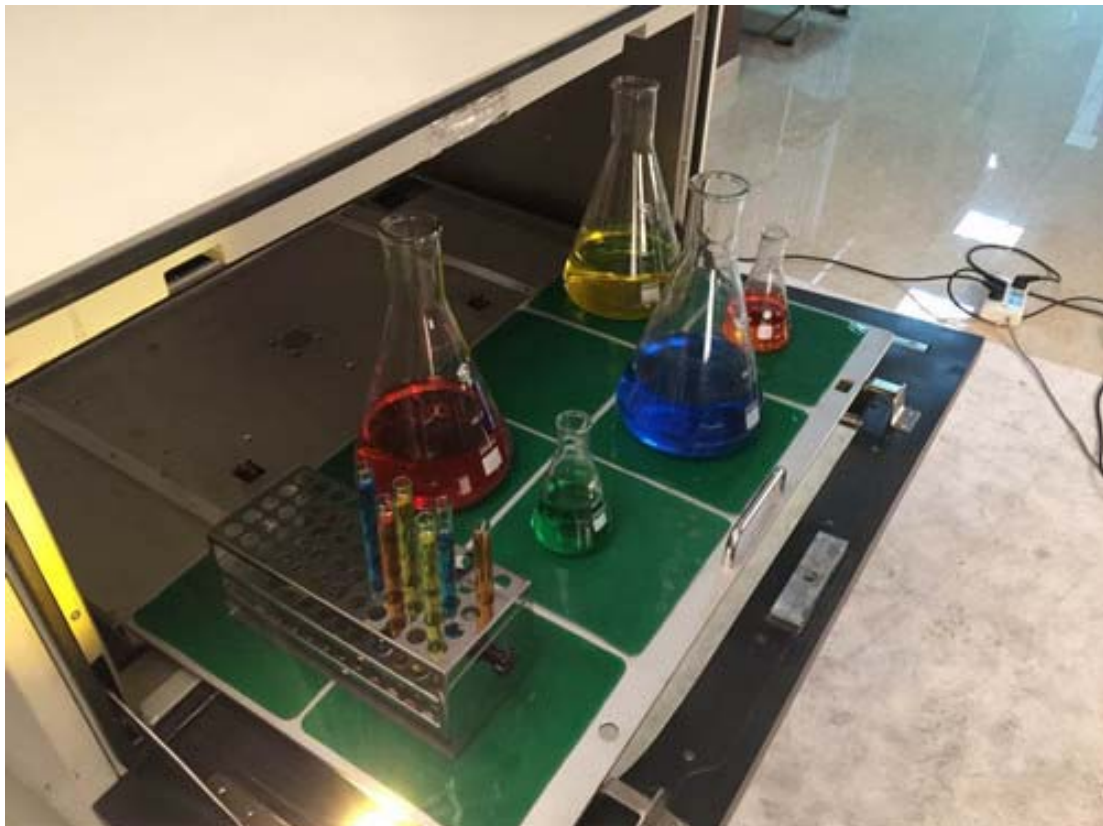
The claw-like platform safety latches



The left photo shows the cleverly designed drop-down door with a perforated, pull-out platform, built with premium quality. Without the flask clamps mounted on it.

Flexible Capacity

The new stackable shaking incubators offer more capacity, a maximum of 6x5L flasks is possible to be loaded adequately in the cabinet by using the green sticky mat. Up to three cabinets can be stacked together for greater shaking capacity, stacking is simple and easy, without the need for special tools or stacking kits. Each cabinet can be operated independently and can be individually configured to meet your particular experimentation requirements.



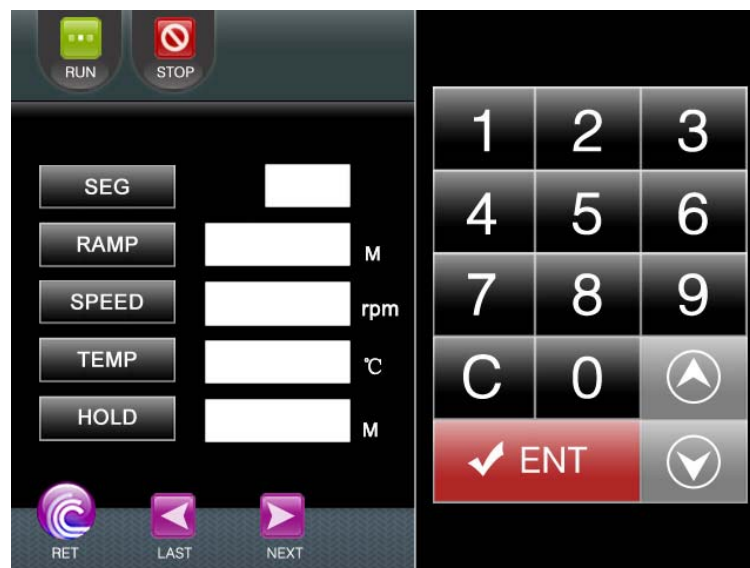
The above photo shows the using of green sticky mat on the platform with various accessories.

Running Mode Options

The shaking incubator offers the choice of steady running mode and programmable running mode to suit diversified user experimentation requirements. A maximum of 18-step, 9 programs can be stored for convenient retrieval, each program can be repeated up to 99 cycle times.



Setting of parameters in steady running mode (above photo).



Setting of parameters in programmable running mode.

Automatic Refrigeration & Defrosting

The new shaking incubators provide an automatic defrosting function that operates automatically at a specified time every day. Manual defrosting is also available. Automatic refrigeration with a highly efficient compressor and CFC-free refrigerants minimize energy consumption significantly.

Safety Features

- The new shaking incubators have been designed to include many safety features including:
- Independent temperature thermostat protect culturing samples from being exposed to excess heat by shutting off the power.
- Independent temperature limitation relay cutoff protection against overheating.
- Over-current and leakage protection.
- Sensor failure alarm.
- Auto-recovery after power failure.
- UV light included as standard for decontamination.
- Password & fingerprint recognition system protects against unauthorized access.

Model: ZWYR-D2401, One Stack.

The below photo shows ZWYR-D2401 with a support stand. The stand must be ordered separately.



Green sticky mats are also available for the flexible use of various culturing vessels on the platform. The size of the sticky mat is 20x20cm.

Specifications

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------|
| Model | ZWYR-D2401 |
| Item | Stackable Shaking Incubator One stack, independent control |
| Controller | P.I.D microprocessor, fully programmable. |
| Performance | Heated and Refrigerated |
| Temperature Range | ambient-20°C to 60°C (or 4~60°C at room temperature of 25 degree.C) |
| Setting | Digital |
| Display | 4.3 inch, 65K color, Touch Screen |
| Temperature Set Resolution | ±0.1°C |
| Temperature Uniformity | ±1°C@37°C |
| Airflow type | Forced-air circulation |
| Refrigeration | Automatic, compressor-cooled. |
| Defrosting | Automatic. Manual defrosting is also available. |
| Shaking Mode | Orbital |
| Orbital Diameter (shaking throw) mm | Φ0~50 |
| Shaking Speed | 30-300 rpm (±1rpm) |
| Programs | 9 programs, 18 steps. |
| Chamber Numbers | 1 Unit |
| Capacity | Support standard Erlenmeyer flasks of 100mlx50 or 250mlx37 or 500mlx30 or 1000mlx18 or 2000mlx8 |
| Timer (minutes) | 0~9999 |
| Platform Size | 800x430mm |
| Platform numbers | 1, included |
| Standard features | Built-in printer, UV light, illumination light. |
| Volumn | 192L |
| Internal Dimension | 920x532x393mm |
| Electricity | 220~230V 50/60Hz |
| Motor Power | 1200W |
| Net/Gross Weight | 250/290Kg |
| External Dimension | 1300x950x725mm |
| Accessory, support stand | Must be ordered separately. |
| Warranty | 3 years |
| Certification | CE, ISO |

Model: ZWYR-D2402 Standard



*Double Stacks, Modular Structure
Design, Independent Control,
Comfortable Height,
Downwards-opening Door,
Pull-Out Tray.*

Specifications

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Model | ZWYR-D2402 |
| Item | Shaking Incubator Double stacks, independent control. |
| Controller | P.I.D microprocessor, fully programmable. |
| Performance | Heated and Refrigerated |
| Temperature Range | ambient-20°C to 60°C (or 4~60°C) |
| Setting | Digital |
| Display | 4.3 inch, 65K color, Touch Screen |
| Temperature Set Resolution | ±0.1°C |
| Temperature Uniformity | ±1°C@37°C |
| Airflow type | Forced-air circulation |
| Refrigeration | Automatic, compressor-cooled. |
| Defrosting | Automatic. Manual is also available. |
| Shaking Mode | Orbital |
| Orbital Diameter (shaking throw) mm | Φ0~50 |
| Shaking Speed | 30-300 rpm (±1rpm) |
| Programs | 9 programs, 18 steps. |
| Chamber Numbers | 2 Units |
| Capacity | Support standard Erlenmeyer flasks of 100mlx50 or 250mlx37 or 500mlx30 or 1000mlx18 or 2000mlx8 for each chamber. |
| Timer (minutes) | 0~9999 |
| Standard Features | Built-in printer, UV light, illumination light. |
| Platform Size | 800x430mm |
| Platform numbers | 2, included |
| Volume | 192L/Unit |
| Internal Dimension | 920x532x393mm/ Unit |
| Electricity | 220~240V 50/60Hz |
| Motor Power | 2400W |
| Net/Gross Weight | 430/500Kg |
| External Dimension | 1300x950x1310mm |
| Warranty | 3 years |
| Certification | ISO, CE |

Model: ZWYR-D2403 Standard



*Triple Stacks, Modular Structure
Design, Independent Control.*

Specifications

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Model | ZWYR-D2403 |
| Item | Shaking Incubator Triple stacks, independent control. |
| Controller | P.I.D microprocessor, fully programmable. |
| Performance | Heated and Refrigerated |
| Temperature Range | ambient-20°C to 60°C (or 4~60°C) |
| Setting | Digital |
| Display | 4.3 inch, 65K color, Touch Screen |
| Temperature Set Resolution | ±0.1°C |
| Temperature Uniformity | ±1°C@37°C |
| Airflow type | Forced-air circulation |
| Refrigeration | Automatic, compressor-cooled. |
| Defrosting | Automatic. Manual is also available. |
| Shaking Mode | Orbital |
| Orbital Diameter (shaking throw) mm | Φ0~50 |
| Shaking Speed | 30-300 rpm (±1rpm) |
| Programs | 9 programs, 18 steps. |
| Chamber Numbers | 3 Units |
| Capacity | Support standard Erlenmeyer flasks of 100mlx50 or 250mlx37 or 500mlx30 or 1000mlx18 or 2000mlx8 for each chamber. |
| Timer (minutes) | 0~9999 |
| Standard Features | Built-in printer, UV light, illumination light. |
| Platform Size | 800x430mm |
| Platform numbers | 3, included |
| Volume | 192L/Unit |
| Internal Dimension | 920x532x393mm/ Unit |
| Electricity | 220~230V 50/60Hz |
| Motor Power | 3600W |
| Net/Gross Weight | 630/730Kg |
| External Dimension | 1300x950x1890mm |
| Warranty | 3 years |
| Certification | ISO, CE |