

# Economic Double Layer Shaking Incubators



ZWY-2102C



ZWY-2112B

## Description:

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

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

## Features:

- Microprocessor controller with audible and visual alarms maintains precise temperature and speed control.
- Users 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 – 9999mins, automatic stop, audio/ visual alarm.
- Password protection against unauthorized change of parameters.
- Audible and visual alarms for over-temperature and set point deviations.
- Non-volatile memory for set point retention after a power interruption.
- Large double-fold tempered glass window, together with fluorescent lights provides complete visibility of chamber interior.
- Auto-defrosting system, ensuring long-terms non-frosting operation with low temperature setpoint
- “Long-Life” brushless AC motor creates a smooth, quiet and uniform 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.
-  **New** UV light reduces the air burden, keeping the chamber contamination free.



Double Layer  
Shaking Frame

| Flask (ml)      | 50ml | 100ml | 250ml | 500ml | 750ml | 1000ml | 2000ml | 3000ml | 5000ml | P8010 | P8012 |
|-----------------|------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| ZWY-1102C/2102C | 78   | 56    | 36    | 24    | 18    | 6*     | 4*     | 3*     | 2*     | 8     | 18    |
| ZWY-1102/2102   | 118  | 104   | 64    | 54    | 30    | 30     | 8*     | 7*     | 4*     | 16    | 38    |
| ZWY-1112B/2112B | 262  | 200   | 110   | 76    | 52    | 44     | 15*    | 10*    | 8*     | 22    | 60    |
| ZWF-1112/2112   | 252  | 190   | 118   | 80    | 48    | 40     | 15*    | 10*    | 7*     | 20    | 64    |

\* Applies only when single layer shaking frame is equipped.

## Specifications:

| Model                            | ZWY-1102C         | ZWY-2102C | ZWY-1102      | ZWY-2102 | ZWY-1112B      | ZWY-2112B | ZWF-1112                    | ZWF-2112 |
|----------------------------------|-------------------|-----------|---------------|----------|----------------|-----------|-----------------------------|----------|
| Volume (L)                       | 170               |           | 330           |          | 580            |           | 580                         |          |
| Shaking Mode                     | Orbital           |           | Orbital       |          | Orbital        |           | Reciprocal                  |          |
| Temperature (°C)                 | A +5 to 60        | 4 to 60   | A +5 to 60    | 4 to 60  | A +5 to        | 4 to 60   | A +5 to                     | 4 to 60  |
| Temperature Accuracy             | ±0.1°C            |           |               |          |                |           |                             |          |
| Temperature Uniformity           | ≤±0.5°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                     |          |
| 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)            | 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           |           |               |          |                |           |                             |          |

## Ordering Information:

| Part NO.  | Description                                                                          |
|-----------|--------------------------------------------------------------------------------------|
| 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   |

| Part NO.                                            | Description                                             | Part NO. | Description                                                 |
|-----------------------------------------------------|---------------------------------------------------------|----------|-------------------------------------------------------------|
| P5001                                               | Frame for ZWY-1102C/2102C, ZWYR-2102C, Stl S/C #        | P8002    | T Clamp, S/S, for 100ml Flask, with Spring Retainer         |
| P5002                                               | Frame for ZWY-1102/2102, ZWYR-2102, S/C                 | P8013    | T Clamp, S/S, for 150ml Flask, with Spring Retainer         |
| P5003                                               | Frame for ZWY-1112B/2112B, ZWYR-2112B, Stl S/C          | P8003    | T Clamp, S/S, for 250ml Flask, with Spring Retainer         |
| P6010                                               | Tray for ZWY-1102C/2102C, ZWYR-2102C, S/S               | P8014    | T Clamp, S/S, for 300ml Flask, with Spring Retainer         |
| P6011                                               | Tray for ZWY-1102/2102, ZWYR-2102, S/S                  | P8004    | T Clamp, S/S, for 500ml Flask, with Spring Retainer         |
| P6012                                               | Tray for ZWY-1112B/2112B, ZWYR-2112B, S/S               | P8005    | T Clamp, S/S, for 750ml Flask, with Spring Retainer         |
| P6013                                               | Tray for ZWF-1112/2112, ZWFR-2112, S/S                  | P8006    | T Clamp, S/S, for 1000ml Flask, with Spring Retainer        |
| P7011                                               | Universal Tray for ZWY-1102C/2102C, ZWYR-2102C          | P8007    | T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer |
| P7012                                               | Universal Tray for ZWY-1102/2102, ZWYR-2102, Ful Pcs    | P8008    | T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer |
| P7013                                               | Universal Tray for ZWY-1112B/2112B, ZWYR-2112B, Ful Pcs | P8009    | T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer |
| P7014                                               | Universal Tray for ZWF-1112/2112, ZWFR-2112, Ful Pcs    | P8010    | Tube Rack S/S                                               |
| P7023                                               | Universal Tray for All Double Layer Model, 1/2 Pcs      | P8011    | Tube Rack ABS Plastic                                       |
| P8001                                               | T Clamp, S/S, for 50ml Flask, with Spring Retainer      | P8012    | Clamp for 96 Well MicroPlate, S/S                           |
| # Stl S/C: Spray Coated Steel, S/S: Stainless Steel |                                                         | P8017    | Sticky Mat, 20 x 20cm                                       |

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