



5L



AUTO  
DEFROSTING



TEMP. CONTROL  
SYSTEM



TOUCH SCREEN  
DISPLAY



UV  
STERILIZATION

GX-P2102C



GX-P2102

GX-P2112B



## PREMIUM DOUBLE LAYER Shaking Incubators

The new double layer shaking incubators in a class of their own, are specially developed a cost effective and space-saving solution for the modern biological engineering departments; the units are widely used in the applications of germ culture, 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 (GX-P2112B, GX-P2112).

► Auto-defrosting system, ensuring long-terms non-frost - ing 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 speci - fied process without having to be on site.

► Timer up to 9999 mins under fixed value control mode.

► Predrilled standard tray included, without clamps.

| Capacity | GX-P8001<br>50ml | GX-P8002<br>100ml | GX-P8003<br>250ml | GX-P8004<br>500ml | GX-P8005<br>750ml | GX-P8006<br>1000ml | GX-P8007<br>2000ml | GX-P8008<br>3000ml | GX-P8009<br>5000ml | GX-P8010<br>Tube Rack S/S | GX-P8012<br>96 Well Plate |
|----------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|---------------------------|
| GX-2102C | 78               | 56                | 36                | 24                | 18                | 6*                 | 4*                 | 3*                 | 2*                 | 8                         | 18                        |
| GX-2102  | 118              | 104               | 64                | 54                | 30                | 30                 | 8*                 | 7*                 | 4*                 | 16                        | 38                        |
| GX-2112B | 262              | 200               | 110               | 76                | 52                | 44                 | 15*                | 10*                | 8*                 | 22                        | 60                        |
| GX-2112  | 252              | 190               | 118               | 80                | 48                | 40                 | 15*                | 10*                | 7*                 | 20                        | 64                        |

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

| Model                            | GX-P2102C                                                                                  | GX-P2102      | GX-P2112B      | GX-P2112                    |
|----------------------------------|--------------------------------------------------------------------------------------------|---------------|----------------|-----------------------------|
| 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                                                                                     |               |                |                             |
| 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 Protection, Electrical Leakage Protection |               |                |                             |
| Additional                       | Built in Printer, RS-485 Interface (Option)                                                |               |                |                             |



|           | Order Information                                                                 |
|-----------|-----------------------------------------------------------------------------------|
| GX-P2102C | GX-P2102C, 170L, Premium Double Layer Shaking Incubator 4-60, 30-300rpm           |
| GX-P2102  | GX-P2102, 330L, Premium Double Layer Shaking Incubator 4-60, 30-300rpm            |
| GX-P2112B | GX-P2112B, 580L, Premium Double Layer Shaking Incubator 4-60, 30-300rpm           |
| GX-P2112  | GX-P2112, 580L, Premium Reciprocal Double Layer Shaking Incubator 4-60, 30-240rpm |

## Order Information

|                                                     |                                                                      |
|-----------------------------------------------------|----------------------------------------------------------------------|
| GX-P5001                                            | Single Layer Shaking Frame for GX-P1102C/P2102C, GX-P2102C, Stl S/C# |
| GX-P5002                                            | Single Layer Shaking Frame for GX-1102/P2102, GX-P2102C, Stl S/C     |
| GX-P5003                                            | Single Layer Shaking Frame for GX-1112B/P2112B, GX-P2112B, Stl S/C   |
| GX-P5016                                            | RS-485 Interface                                                     |
| GX-P6010                                            | Predrilled Tray for GX-1102C/P2102C/GX-P2102C, S/S                   |
| GX-P6011                                            | Predrilled Tray for GX-1102/P2102/GX-P2102, S/S                      |
| GX-P6012                                            | Predrilled Tray for GX-1112B/P2112B/GX-P2112B, S/S                   |
| GX-P6013                                            | Predrilled Tray for GX-1112/P2112/GX-P2112, S/S                      |
| GX-P6031                                            | Plain tray for GX-1102/P2102, GX-P2102                               |
| GX-P6038                                            | Plain Tray for GX-1102C/P2102C, GX-P2102C                            |
| GX-P6046                                            | Plain Tray for GX-1112B/P2112B, GX-P2112B, S/S                       |
| GX-P7011                                            | Universal Spring Pallet for GX-1102C/P2102C/GX-P2102C                |
| GX-P7012                                            | Universal Spring Pallet for GX-1102/P2102/GX-P2102, Ful Pcs          |
| GX-P7013                                            | Universal Spring Pallet for GX-1112B/P2112B/GX-P2112B, Ful Pcs       |
| GX-P7014                                            | Universal Spring Pallet for GX-1112/P2112/GX-P2112, Ful Pcs          |
| # Stl S/C: Spray Coated Steel, S/S: Stainless Steel |                                                                      |
| GX-P8001                                            | T Clamp, S/S, for 50ml Flask, with Spring Retainer                   |
| GX-P8002                                            | T Clamp, S/S, for 100ml Flask, with Spring Retainer                  |
| GX-P8013                                            | T Clamp, S/S, for 150ml Flask, with Spring Retainer                  |
| GX-P8003                                            | T Clamp, S/S, for 250ml Flask, with Spring Retainer                  |
| GX-P8014                                            | T Clamp, S/S, for 300ml Flask, with Spring Retainer                  |
| GX-P8004                                            | T Clamp, S/S, for 500ml Flask, with Spring Retainer                  |
| GX-P8005                                            | T Clamp, S/S, for 750ml Flask, with Spring Retainer                  |
| GX-P8006                                            | T Clamp, S/S, for 1000ml Flask, with Spring Retainer                 |
| GX-P8007                                            | T Clamp, Spring S/S, for 2000ml Flask, with Spring Retainer          |
| GX-P8008                                            | T Clamp, Spring S/S, for 3000ml Flask, with Spring Retainer          |
| GX-P8009                                            | T Clamp, Spring S/S, for 5000ml Flask, with Spring Retainer          |
| GX-P8010                                            | Tube Rack S/S                                                        |
| GX-P8011                                            | Tube Rack ABS Plastic                                                |
| GX-P8012                                            | Clamp for 96 Well Plate, S/S                                         |
| GX-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.