

High volume orbital shaker incubator "1102" and 2102"

MODEL 1102 ADJUSTABLE TEMPERATURE FROM AMBIENT +5 °C TO 60 °C.

MODEL 2102 REFRIGERATED FOR ADJUSTABLE TEMPERATURE FROM +5 °C TO 60 °C.

FAN AIR CIRCULATED, WITH OR WITHOUT REFRIGERATION.

DIGITAL ELECTRONIC CONTROL OF SPEED, TEMPERATURE AND TIME. FOR LONG OPERATING PERIODS.

SAFETY:

TRIPLE PROTECTION MOTOR DRIVE:

OVER TEMPERATURE, IRREGULAR MOVEMENTS, AUTOMATIC STOP WHEN THE DOOR IS OPENED, TEMPERATURE ALARM, THERMAL CUTOUT.

FEATURES

Metallic external case epoxy-coated.

Made with two doors framework type and double glass windows which allow visibility of the material exposed in the inside

Two removable upper trays for high volume Erlenmeyer flasks accommodation in the lower tray.

Adjustable outlet hole for the air in the inside of the chamber.

With wheels for movements and adjustable support for a stable fixing.

Current and set digital reading of temperature, time and speed parameters.

Acoustic alarm and illuminated indicator at the end of the cycle and also to indicate temperature and / or time programs errors.

Automatic switch off mechanism when the shaker door is opened.

Motor over load protection, with automatic switch off activation.

Induction drive motor, where the drive mechanism has an anti vibration system. Refrigerated models have a hermetically sealed compressor unit with a ventilated condenser.

Internal case made of stainless steel AISI 316 with polished finish and glazed door for a handy visibility of the samples process.

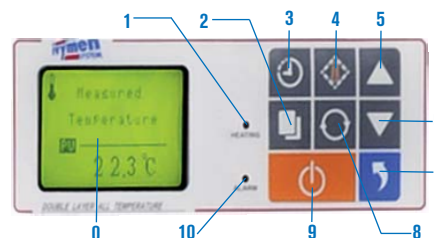
Internal platform with multi-adapter positions for differing accessories, such as: conical flask adapters, microtitre plate holders and universal tray with adjustable tension springs for other non standard sized vessels.



| MODEL | 1102 | 2102 |
|--|--|-----------------------|
| Part No. | 5312094 | 5312095 |
| Rotation amplitude | 26 mm | 26 mm |
| Controllable speed range | from 30 to 300 r.p.m. | from 30 to 300 r.p.m. |
| Controllable speed in steps of | 1 r.p.m. | 1 r.p.m. |
| Refrigeration | No | Yes |
| Heating | Yes | Yes |
| Controllable temperature range | from ambient +5 °C to 60 °C | from 5 °C to 60 °C |
| Controllable temperature in steps of | 0.1 °C | 0.1 °C |
| Chamber temperature uniformity | ±1-2 °C | ±1-2 °C |
| Timer | from 0 to 500 hours | from 0 to 500 hours |
| Usable platform dimensions | 734 x 458 mm | 734 x 458 mm |
| Platform number | 2 | 2 |
| Maximum Erlenmeyers capacity (see accessories) | *4 x 5000 ml, or *8 x 3000 ml, or *8 x 2000ml, or 24 x 1000 ml, or 44 x 500 ml, or 56 x 250 ml, or 104 x 100 ml or 104 x 50 ml | |
| Dimensions Height x Width x Depth | 1440 x 950 x 700 mm | 1440 x 950 x 700 mm |
| Weight | 265 Kg | 272 Kg |
| Power | 930 W | 1200 W |
| Power supply | 230v/50-60Hz | |

*Note: An upper tray divided into two removable pieces which allow high volume Erlenmeyer flasks accommodation, from 2000 to 5000 ml. in the lower tray or the Universal platform which is supplied as an accessory.

CONTROL PANEL



0. LCD Display.

1. Heater "ON" indicator.

2. Modify and confirm push button.

3. Time function push button.

4. Temperature push button.

5. Increase value push button.

6. Reduce value push button.

7. Rotation push button.

8. Speed push button.

9. Start / Stop Push button.

10. Alarm indicator.

Refrigerated model also carry:
Refrigeration compressor "ON" indicator.
Adjust temperature push button.

ACCESSORIES Erlenmeyer and flask adapters.

Made from hardened sprung stainless steel.



Part No. **5312105** Adapter for 50 ml
Part No. **5312106** Adapter for 100 ml
Part No. **5312107** Adapter for 250 ml
Part No. **5312108** Adapter for 500 ml
Part No. **5312109** Adapter for 1000 ml
Part No. **5312110** Adapter for 2000 ml
Part No. **5312111** Adapter for 3000 ml
Part No. **5312112** Adapter for 5000 ml



Adapter for microtitre holder

From 85 x 130 mm., allows up to 6 plates.

Part No. **5312113**



Universal platform tray with elastic tension clips that hold in position any type of vessel, flasks, beakers, racks, etc.

Dimensions 734 x 458 x 75 mm

Part No. **5312120**