

Sterilisation Series Laboratory Autoclaves

MLS-2420-PE / 3020U-PE



Reliable sterilisation and user safety

- Microprocessor control maintains accurate sterilization temperature
- Easy to operate ergonomic design
- Safety assured with fail-safe functions
- Audible and visual alarms alert the user to end-of-cycle and error conditions
- Compact design

Laboratory Autoclaves MLS-2420U-PE / MLS-3020-PE

Panasonic laboratory autoclaves provide a safe and reliable high pressure steam sterilizing environment within a unit that is particularly easy to use. Microprocessor control ensures that the correct temperature is accurately maintained and easily operated with one-touch operation.

Accurate sterilization operation

A microprocessor monitors and controls steam temperature within the chamber, ensuring that it is maintained within the 105°C – 126°C range:

Customizable sterilization program

Sterilization temperature and time can be easily adjusted as needed. Latest set values are always stored in the system, even after the autoclave is switched off.

Safety assured with fail-safe functions

- 1. Pressure safety valve**
A reliable pressure safety valve is used to prevent pressure inside the chamber from rising above acceptable levels.
- 2. Door switch**
A safety mechanism prevents the autoclave from operating if the door is not completely closed. A "door closed" lamp lets you check whether the door is closed.
- 3. Thermistor error detector**
If there is a thermistor error and the connection is broken, the heater will turn off to prevent overheating. Buzzer alert: Pairs of short beeps repeated in succession.
- 4. Overheating protection function**
The digital display starts to flash if the temperature in the chamber rises more than 2°C above the temperature setting. If it rises 3°C or more above the setting, the relay shuts off, and cuts off power to the heater.



Digital controls and display

The digital control panel allows temperature and time settings to be entered accurately in 1°C and 1-minute intervals. The display panel is easy to read, helping prevent errors when setting parameters.

| Sterilisation Series | | | |
|---------------------------------------|--|---|---------------------|
| Characteristics | |  | |
| | PUF = Rigid polyurethane foamed insulation V = Visual alarm B = Buzzer alarm R = Remote alarm | | |
| MODEL | | MLS-2420U-PE | MLS-3020U-PE |
| Dimensions | | | |
| Exterior (W x D x H) | mm | 380 x 490 x 840 | 440 x 550 x 1050 |
| Chamber dimensions (diameter x depth) | Ø mm | 240 x 450 | 300 x 670 |
| Effective capacity | ltr | 20 | 48 |
| Net Weight | kg | 45 | 67 |
| Construction | | Stainless steel (SUS 304) | |
| Chamber material | | Stainless steel (SUS 304) | |
| Stainless steel baskets | qty | 2 | 3 |
| Sterilisation | | 105 ~ 126 | |
| Sterilisation temperature | °C | 105 ~ 126 | |
| Temperature gauge range | °C | Digital display 80 ~ 141 | |
| Safety valve release pressure | | 177 kPa (25 psig) | |
| Pressure gauge range | | 0 - 0.3 Mpa / 0 -45 psi | |
| Timer setting range | min. | 1 - 180 | |
| Exhaust tank | | 3 ltr polyethylene tank | |
| Safety devices | | Pressure safety valve Anti dry scorch thermo limiter Door switch Handle switch Current fuse | |

Audible and visual alarms

A buzzer sounds to alert the user to the end of sterilization cycle so that items can be removed from the autoclave.

- 1. "Sterilization finished" alert**
A buzzer sounds to tell you when sterilization is finished.
Buzzer alert: Single long beep
- 2. "Safe to remove contents" alert (cycle fully complete)**
When the items being sterilized have cooled down to the point where it is safe to remove them, a buzzer sounds.
Buzzer alert: 10 long beeps in succession

Easy-to-operate ergonomic design

The interior of the chamber is free of protrusions such as sensors or piping joints that could interfere with the insertion or removal of items. The single rectangular handle turns easily and securely seals the chamber. The control panel is mounted at the top of the unit, making it easier to see and operate. A water outlet valve allows easy changeover of the sterilization water.



Appearance and specification are subject to change without notice.

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for more online information:

www.biomedical.panasonic.eu