CoolCLAVE™

Personal Sterilizer

Catalog #	Description/Content	Amount
E300110	Personal Sterilizer, 110V	1 Unit
E300220	Personal Sterilizer, 220V	1 Unit

Related Products	Catalog #
BioCooler™ Cold Box, 48 x 1.5 ml tubes	E100100
BioCooler™ Cell Storage Box, 42 x 2.0 ml cryogenic tubes	E100200
Mini BioCooler™ Cold Box, 8 x 1.5 ml tubes	E100300
BioCooler Midi Cold Box, 12 x 2.0 ml tubes	E100500
Dr. Spin Personal Centrifuge-Blue	E200100
Dr. Spin Personal Centrifuge-Teal	E200200
Dr. Spin Personal Centrifuge-Purple	E200300

Shipping and Storage:	CoolCLAVE is shipped at room temperature. Store on a lab bench away from water and heat sources.

INTRODUCTION

CoolCLAVE™ is a unique and innovative bench top sterilizer available from AMSBIO. It uses ozone gas to clean* laboratory tools, especially ones involved in sensitive experiments or assays. It is effective in keeping sterile, or sterilizing lightly contaminated pipettes, pipette tips, gloves, plates, small instruments, and even personal items such as keys and glasses. To sterilize items, simply place them inside the CoolCLAVE Sterilizer and press START. The anti-microbial properties of ozone provide a powerful sanitizing effect that is capable of killing more than 98% of common pathogenic organisms (bacteria, fungus, virus, etc.) in 8 minutes*. The antimicrobial properties of ozone also eliminates the odors produced by these organisms providing a deodorizing effect as well. Best of all, the CoolCLAVE sterilizer is very safe and efficient, does not use any liquids, harmful UV rays, harsh chemicals, or heat, and does not damage any surfaces or leaves any chemical residues behind.

***Note and Disclaimer:** *CoolCLAVE Personal Sterilizer is not a replacement or substitute for autoclaves, under no circumstance should it be used to sterilize equipment for use in medical or surgical applications of any kind. The CoolCLAVE sterilizing cycles can eliminate most surface contaminants, especially bacterial and fungal, but only at lower densities that are typical in normal operating environments, such a lab benches or general surfaces.* AMSBIO *makes no claims and does not offers guarantees of any kind that a CoolCLAVE cycle(s) will eliminate 100% of all contaminants under all possible circumstances.*

PRECAUTIONS

(a) Read all instructions before using the appliance. Use this appliance only for its intended use as described in this manual.

(b) This appliance must be used ONLY with the provided power supply; do not use any substitutes to avoid damage to unit.

(c) Do not attempt to operate the CoolCLAVE with the door open. Do not tamper with the door seal or latch mechanism.

(d) The CoolCLAVE unit emits small amounts of O_3 gases. Even though small ozone emissions are not considered hazardous, we recommend users avoid inhaling the gases that emanate from the CoolCLAVE after opening the door upon completion of sterilization cycle(s).

(e) Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.

(f) Do not store this appliance outdoors, or use it near water– for example near sinks or water baths.

(g) Do not immerse cord or plug in water; keep cord away from heated surfaces.

(h) Do not attempt to repair or open the unit unless you are a qualified repair technician.

SPECIFICATIONS

Electricity	DC 12V / 550 mA
Dimensions (Width x Depth x Height)	12 ⅝ x 14 ¾ x 9⅞ (320 x 375 x 250 mm)
Weight	14.1 lbs. (6.4 kg.)
Technology	Ozone gas
Operating cycle	8 minutes (repeat as needed)
Warranty	1 year

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OPERATION

1. Plug power supply into wall outlet and connect it to the CoolCLAVE™ unit on the backside.
2. Open the door and put the objects you want to sterilize inside the unit. You can stack or put as many tools as you need, but do not overload unit so sterilizing can be effective.

   NOTE: because the CoolCLAVE uses ozone gas, you are able to safely and effectively sterilize the surfaces of most types of materials such as plastics, metals, paper products, pipet tip boxes, and even agar plates. On the other hand, the CoolCLAVE is not able to sterilize liquids or solutions.
3. Close the CoolCLAVE door and press the "Start" button on the face of the unit.
   a. For each press of the Start button, the CoolCLAVE will run an 8 minute sterilizing cycle.
   b. The green light bar next to the Start button will visually indicate the time left for each 8 minute cycle.
   c. An 8 minute cycle is typically sufficient for a few lightly contaminated items. For heavier loads or further cleaning, press the Start button again to start another 8 minute cycle. It is recommended that in general you run the CoolCLAVE 2-3 cycles for the best cleaning effectiveness.
   d. During operation internal LED lights will flash and change color to show that the unit is in working mode.
   e. If during an operating cycle you open the CoolCLAVE door, the unit will stop working. Pressing the Start button again, after closing door, will restart the 8 minute cycle from the beginning.

MAINTENANCE

(a) The CoolCLAVE has a small filter cartridge that needs occasional cleaning every 3 months. The cartridge is located on the inside of the unit, towards the back right side. Remove the cartridge by sliding it out of its holding cage and clean it by using air gun or vacuum cleaner to remove dust particles. Avoid damaging the cartridge's fabric cover by using moderate air pressure or a soft vacuum brush head. Alternatively, you may just shake the dust off of the filter in an outdoor area, or use a dry soft brush to remove dust and particles.

(b) Keep you CoolCLAVE unit clean at all times by wiping the interior and exterior surfaces with a moist towel. To avoid damaging the unit, do not use any detergents or solvents.

(c) Unplug the power supply from the wall outlet when the CoolCLAVE is in storage or will not be used for extend periods of time.

(d) Avoid obstructing the back of the unit by leaving a space of about 2 inches between it and a wall surface.

(e) Avoid damaging the unit by putting heavy objects on top of it.

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