

infrared sterilizer for sterilizing inoculation loops

Infrared sterilizer is a kind of device that adopts the principle of radiant heat to sterilize the micro experimental instruments with high temperature rapidly, which is suitable for the efficient disinfection of inoculation ring, inoculation needle and other instruments in the experimental operation of microbiology, molecular biology, biopharmaceuticals and so on.

Infrared sterilizer can replace the traditional alcohol lamp, with higher safety and stability, suitable for a variety of experimental environments, and even field operating conditions can be used reliably.

Features of Infrared Sterilizer

1. efficient sterilization: the temperature of the heating zone of the infrared ceramic heater can be rapidly increased to more than 800 °C, the sterilization time is only 5 to 7 seconds, which greatly improves the efficiency of the experiment.
2. safe and no open flame: instead of the traditional alcohol lamp, no risk of open flame, to avoid the risk of fire or deflagration in the experiment.
3. adaptable: the diameter of the heating zone can accommodate 15mm sterilization tools, the length of 140mm, suitable for a variety of common laboratory equipment.



4. sturdy and durable structure: all-metal shell anti-scald design, internal ceramic tube high-temperature resistance, corrosion resistance, long life.
5. easy to move and deploy: small size, light weight, suitable for biological safety cabinets, purification table, side of the ventilation system, mobile vehicles, field sampling and other scenes.

Advantage Analysis

1. energy saving and environmental protection: no alcohol or gas fuel is needed, no harmful volatiles are released, cleaner operation.
2. ready to use: fast heating, no need to wait for the warming time, open with the use.
3. safe and reliable: avoid using flammable substances, experiments more at ease, suitable for teaching and hospital environment.
4. flexible: even in the field experiments without power network, can also be used with portable power supply.

Working Principle

Infrared Sterilizer utilizes the internal infrared ceramic heat emitter to produce far-infrared radiation, which heats the ceramic tube to over 800°C through thermal radiation. When the inoculation ring or inoculation needle is inserted into the ceramic tube, it is quickly surrounded by high temperature, and heat conduction can completely inactivate the attached bacteria, fungi, viruses and spores in a short period of time, so as to realize the requirements of aseptic operation. Unlike flame sterilization, infrared sterilization avoids local overheating or carbonization, and improves the consistency and safety of sterilization effect.

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Model	NT10A
Maximum Temperature at Center Zone	825°C±25°C
Maximum Diameter of Sterilized Item	diameter 15mm
Total Length of Heating Zone	140mm
Heating Time	15 minutes
Fuse	250Vac, 3A, 5x20mm
Dimensions	120x155x180mm
Weight	1kg
Power Supply	230Vac, 50Hz-60Hz, 150W