

## **dry heat sterilizer with optional USB flash for data storage**

The dry heat sterilizer heats the air to a certain temperature through the heating element, and then sends the hot air evenly to the inside of the box through the air duct system, and the forced convection system ensures the circulation flow of hot air.

### **Features**

1. good sterilization effect: the use of high-temperature dry heat air for deep sterilization of items, completely remove bacteria, viruses and other microorganisms, to ensure sterilization effect.
2. convenient operation: the equipment supports fixed value operation, timed operation, and has an automatic stop function, easy to operate, intelligent.
3. accurate temperature setting: special function keys to realize accurate temperature setting, and provide auxiliary menu, support excessive heating alarm, deviation correction and menu locking function, to ensure stable temperature control.
4. High-efficiency airflow system: Vertical dual air duct design and turbine centrifugal forced air supply system, so that the internal temperature distribution of the equipment is more uniform, and the disinfection effect is more stable.



5. long time running stability: speed fan can be adjusted wind speed, suitable for a variety of items, such as light, fine, powdery samples, while the forced fan cooling air intake structure effectively reduces the fan temperature, to ensure long time and efficient operation, prolong the service life of the equipment.
6. heat insulation door design: high temperature state, the outer door temperature is low, to avoid high temperature caused by the deformation of the equipment, and at the same time effectively enhance the safety of the equipment.
7. convenient sample pick and place design: the use of pull-out tray and partition design, pick and place the sample more convenient and fast, improve operational efficiency.
8. intelligent control: LCD multi-data full-screen operation display, support power failure memory and power failure compensation, to ensure the continuity of the operation. digital overheating preventer, so that the temperature control is more accurate.
9. safety and security: with excessive temperature alarm, menu lock, prevent excessive heating and other multiple security measures to effectively avoid the safety hazards caused by operational errors.
10. temperature range: room temperature +10 °C to 300 °C.
11. forced convection air circulation.

## **Working Principle of Dry Heat Sterilizer**

The air is heated to a certain temperature by the built-in heating element, and then the hot air is uniformly sent into the interior of the studio through the air duct system. The forced convection system ensures the uniform flow of hot air inside the device and avoids the problem of excessive temperature difference, thus ensuring the sterilization effect of the samples. Temperature and time can be set according to the need, when the set value is reached, the equipment will automatically stop working, and at the same time provide excessive heating alarm and other functions to ensure the safety of operation.

## **Advantages**

1. efficient sterilization: sterilized by dry hot air, suitable for those items that should not be exposed to steam or moisture.
2. safe and reliable: with over-temperature alarm, automatic stop and other multiple safety measures to effectively prevent over-temperature or operating errors.
3. stable operation for a long time: forced fan cooling air intake design and high-temperature insulation technology, so that the equipment is still stable in the long run, not easy to damage.
4. space-saving and convenient operation: vertical design and pull-out tray partition, not only save space, but also improve the convenience and efficiency of operation.

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<b>Model</b>	<b>SD30</b>	<b>SD45</b>	<b>SD65</b>	<b>SD85</b>	<b>SD125</b>	<b>SD230</b>
Air flow method	Dual duct forced convection					bottom duct swing air supply
Temperature range	ambient+10°C to 300°C					
Temperature resolution	0.1°C					
Temperature Accuracy	±1.0°C					
Temperature uniformity	±1.5%					
Temperature control method	PID					

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Internal material	mirror polished stainless steel plate					
External Material	cold rolled steel plate, surface sprayed with plastic					
Insulation material	aluminum silicate fiber					
Heating element	stainless steel heating tube					nickel-chromium alloy heating wire
Rated power	0.8kw	1.2kw	1.6kw	1.8kw	2.3kw	3.0kw
Exhaust port	Inner diameter 28mm,top					
Display screen	LCD					
Timer	0 to 9999 minutes, with timed delay function					

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Operating function	constant value operation, timed operation, auto stop					
Additional functionality	deviation correction, menu key lock, power failure compensation, power failure memory, overshoot preventer					
Fan	speed control fan					
Safety device	overlift alarm					
Internal dimensions	310x310x310m m	350x350x350m m	400x360x450m m	500x450x550m m	500x450x550m m	600x500x750mm
External dimensions	428x505x710m m	468x538x753m m	518x550x860m m	567x640x853m m	617x639x953m m	735x625x1220m m
Volume	30L	45L	65L	85L	125L	230L
shelf load bearing	15kg					

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Number of shelf layers	5	6	8	8	11	17
Shelf spacing	40mm					35mm
Power supply	220Vac, 50Hz, 3.6A	220Vac, 50Hz, 5.5A	220Vac, 50Hz, 7.2A	220Vac, 50Hz, 8.2A	220Vac, 50Hz, 10.5A	220Vac, 50Hz, 13.6A
Weight	37kg	37kg	43kg	50kg	60kg	84kg
Additional configurations available	shelf, RS485 interface, printer, recorder, external communication, remote control, program temperature controller, wireless SMS alarm, U disk data storage					