TooToo MediTech Co., Ltd.

TT-PS50

Reactive Plasma Sterilizer

For Veterinary Use Only.

- **Efficient & Gentle Operation:** Low-temperature sterilization (<45°C) protects sensitive devices, with a standard cycle completed in under 1.5 hours.
- **Flexible & User-Friendly:** Features three one-touch working modes to suit different needs.
- **Sustainable & Cost-Effective:** Zero emissions and no installation required. Each cycle consumes only electricity and a verification indicator strip
- **Professionally Recognized:** Certified and accredited by relevant industry authorities.

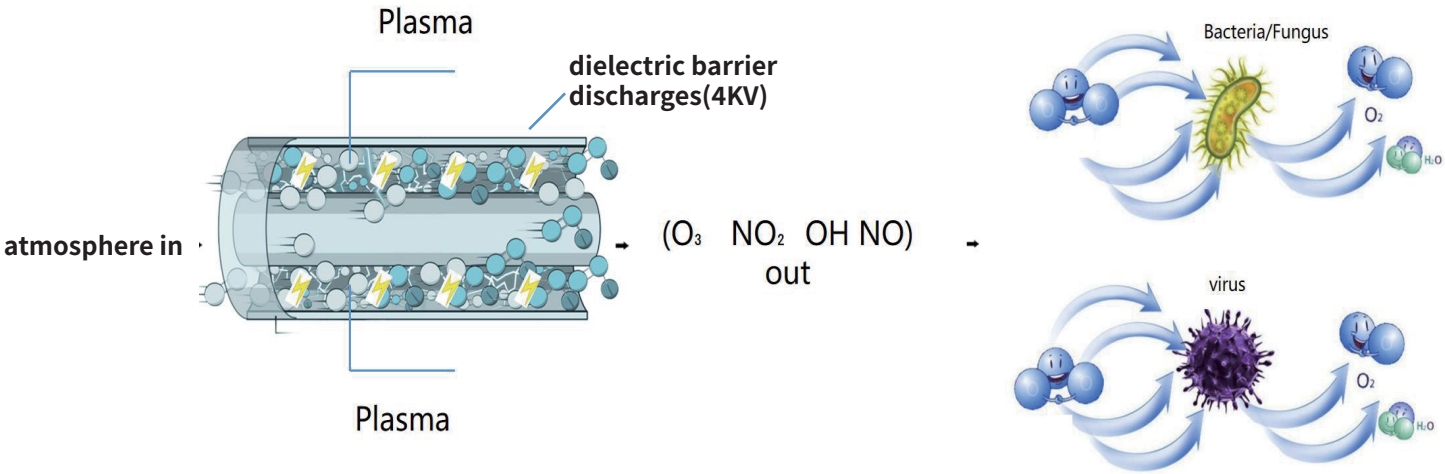


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How the Equipment Works

Core Inactivation Mechanism

Target	Mechanism of Action
Viruses	Strongly oxidizing gases directly destroy their RNA or DNA structure, eliminating their ability to replicate.
Bacteria & Molds	Phase 1: Act on the cell membrane, damaging its structure to disrupt metabolism. Phase 2: Penetrate further to destroy intracellular components, ultimately leading to cell death.

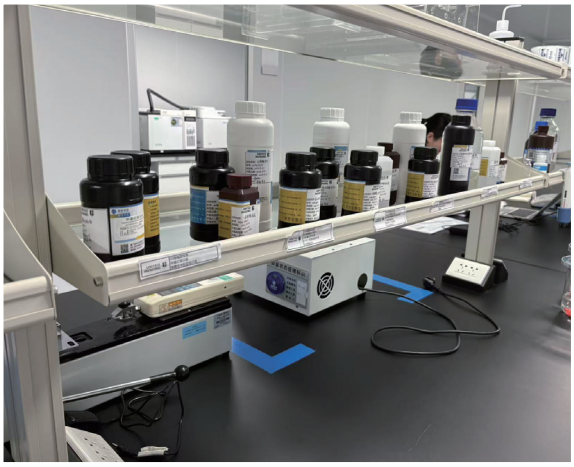


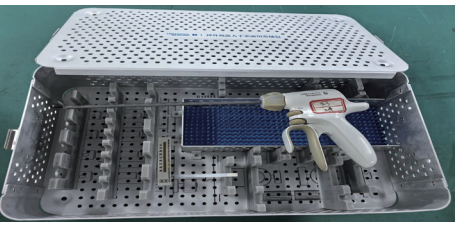
Schematic Workflow

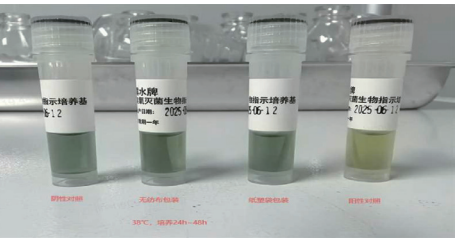
Plasma Generation → **Oxidizing Gas** → **Diffusion & Contact** → **Microbial Inactivation** → **Safe Decomposition**

Thill, S. A. , & Spaltenstein, M. . (2020). Toward efficient low-temperature ozone gas sterilization of medical devices. Ozone: Science & Engineering, 42(5). https://doi.org/10.1080/01919512.2019.1704217

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Sterilization Assurance & Material Compatibility

Sterility Assurance Level

Biological indicators ⩾ 10^6 spores of Bacillus subtilis

Verification Standard

The Sterilization verification process follow “ISO11138-1:2017 Sterilization of health care products — Biological indicators”

METALS	PLASTICS	ELASTOMERS	OTHER
Stainless steel	PEEK, PE, ABS, PTFE	Silicone, Fluorosilicone, Viton	Glass, Ceramic
Titanium	FPC, PVC, PP, PC	Santoprene, Tygon, EPDM	Cellulosic material (paper, cardboard, textile)
Anodized aluminum	PLU, PSU	Natural rubber, Nitrile	
Gold plating	PA, Delrin		
Mild steel			
Galvanized steel			
Brass, Zinc, Tin			
Nickel, Bronze,			
Copper			

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Comparison Item	Reactive Plasma Sterilizer	Air Plasma Sterilization®	Vaporized Hydrogen Peroxide	Ethylene Oxide
Sterilant Form	Sterilant gas	Sterilant gas	Vaporized Hydrogen Peroxide	Ethylene Oxide gas
Low Temperature Required	Yes	Yes	Yes	Yes
Installation Cost	No	No	No	Yes
Requires External Ventilation	No	No	No	Yes
Requires Chemical Consumables	No	No	Yes	Yes
Consumables Have Shelf Life	No	No	Yes	Yes
Operating Pressure	Vacuum	Atmospheric	Vacuum	Vacuum
Sterilization Cycle Time	1.5 hours	4 hours	30 min - 1 hour	12 - 24 hours
Cost (end customers' single-use cost)	$2.8	$4-$10	$10+	$30+

Comparison Item	Reactive Plasma Sterilizer			Air Plasma Sterilization®		
	LIFE	COST	Desirability	LIFE	COST	Desirability
Plasma sheets			NO	15 cycles	$236.24(4 sheets per box)	YES
Desiccant Canister			NO	25-75 cycles	$68.24	YES
Catalyst Canister	1000 cycles	$800(2 PCS per box)*	YES	200 cycles	$122.05	YES
Chemical Indicator Strips	1 cycles	$200(100 strips per box)*	YES	1 cycles	$65.61(250 strips per box)	YES
Sterilization Tray		$180(1 PCS)*	YES		V10 $175 V20 $250	YES
Total Cost (end customers' single-use cost)		$2.8			$5.72~$7.54	

* The price of **Catalyst Canister** serves as a reference for end customers' single-use cost, while our price to agents is $400(2 PCS per box).
* The price of **Chemical Indicator Strips** serves as a reference for end customers' single-use cost, while our price to agents is $100(100 strips per box).
* The price of **Sterilization Tray** serves as a reference for end customers' single-use cost, while our price to agents is $120(1 PCS).

Specification

External Size(WxHxD)	630x470x500 mm
Inner Chamber Size(WxHxD)	525x300x320 mm
Inner Chamber Diagonal Length	about 680 mm
Chamber V olume	50L

Product Configuration


1 Main unit


1 Power cable


2 Tray


100 indicator strip


1 Catalyst Canister

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