

Low Temperature Plasma Sterilizer



HMTS-142

"Can endoscopes be sterilized thoroughly?"

"Is the sterilization cost reasonable?"

"Are you fully prepared for increasingly stringent environmental regulations?"

"Do you want quick sterilization?"

"Can you operate easily?"

HMTS has the Best Answer!

* Double Door is available for HMTS-142 Model (HMTS-142D)

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Low Temperature Plasma Sterilizer System



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Dimension, Weight

- **Size** Width 832 mm (32.8 in)
Height * 1688 mm (66.4 in)
Depth 1016 mm (40.0 in)
- **Weight** 550 kg (1213 lbs)
* from mobile wheel

Sterilization Chamber

- Total Volume** 425mm(W) x 425mm(H) x 790mm(D)
142 Liter(5.01 cubic feet)
- Usable Volume** 120 Liter(4.24 cubic feet)
- Shelf Strength** 35 kg (77 lbs)
- Shelf Dimensions** Upper : 415mm(W) x 780mm(D)
Lower : 410mm(W) x 780mm(D)

HMTS-142 Sterilization System cycle (Approximate Times)

Normal recipe (Duplicate cycle)

Vacuum 1 Stage	Initial evacuation of sterilization chamber to 10 Torr. 15-17 min.
Diffusion 1 Stage	Automatic injection and diffusion stage. 20-22 min.
Vacuum 2 Stage with Plasma 1 Stage	Re-evacuation of sterilization chamber to 10 Torr. 1-2 min.
Diffusion 2 Stage	Automatic injection and diffusion stage. 20-22 min.
Plasma 2 Stage	Re-evacuation of sterilization chamber to 1 Torr. 2-3 min.
Vent & Dry Run Stage	Return of sterilization chamber to atmospheric pressure and re-evacuation of chamber. 7-9 min.
Total Cycle Time	65-70 min.

Total cycle time and each stage time can be changed depending on loading materials to be sterilized.

Installation and Operating Requirements

Connections :

Electricity only
100/110/120/220/230/240 V, 50/60 Hz, 16 A, 1 phase

Placement :

Built-in wheels provide mobility.

Operational Environment :

5 - 40°C (41 - 104°F)
0 - 95%RH (Non-condensing)

Installation Space :

Minimum area : 129 x 175 cm (50.7 x 68.8 in)
Surface : Flat = 5 mm/m (0.188 in/ 3 feet)
Minimum distance from wall : 300 mm (11.8 in)
Minimum service access : 1 m (3 feet) on all side

Display and Printer Outputs

- 8.4" liquid crystal display and audible alarm provide operator with proper information.
Built-in printer and USB memory generate system performance record and data storage for each cycle.
- Refer to operator's manual for display and printer messages.
- With familiar OS, Windows System, as an embedded System improves user interface.
- Self-test functions are available



Regulatory Approvals

- 1) Medical Devices Directive 93/42/EEC
- 2) ISO 9001:2000 Quality management systems - Design, development and manufacture of plasma sterilizer and hydrogen peroxide sterilant agent for use in HMTS series.
- 3) ISO 13485:2003 Quality management systems- Medical devices - Design, development and manufacture of plasma sterilizer and hydrogen peroxide sterilant agent for use in HMTS series.

Normative Reference

- 1) ISO 14971:2001 Medical Device. Application of risk management to medical devices
- 2) ISO 14937:2001 Sterilization of health care products
- 3) ISO 10993-5:1999 Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity
- 4) EN 61010-1:2001 Safety requirements for electrical equipment for measurement, control and laboratory use. General requirements.
- 5) EN 61010-2-042:1997 Particular requirements for autoclaves and sterilizers using toxic gas for the treatment of medical materials, and for laboratory processes
- 6) EN 60601-1-2:2002 Medical electrical equipment. General requirements for safety. Collateral standard. Electromagnetic compatibility. Requirements and tests.



*The descriptions and pictures in this publication can be changed without previous notice to improve products.

LL-142 (Rev.2)



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