

**HMTS** SERIES

# 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?”

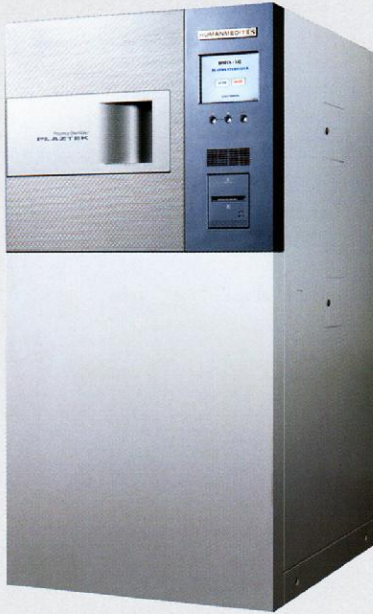
# HMTS has the Best Answer!

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



# HMTS-142

## Low Temperature Plasma Sterilizer System



HMTS-142

### 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)

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



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