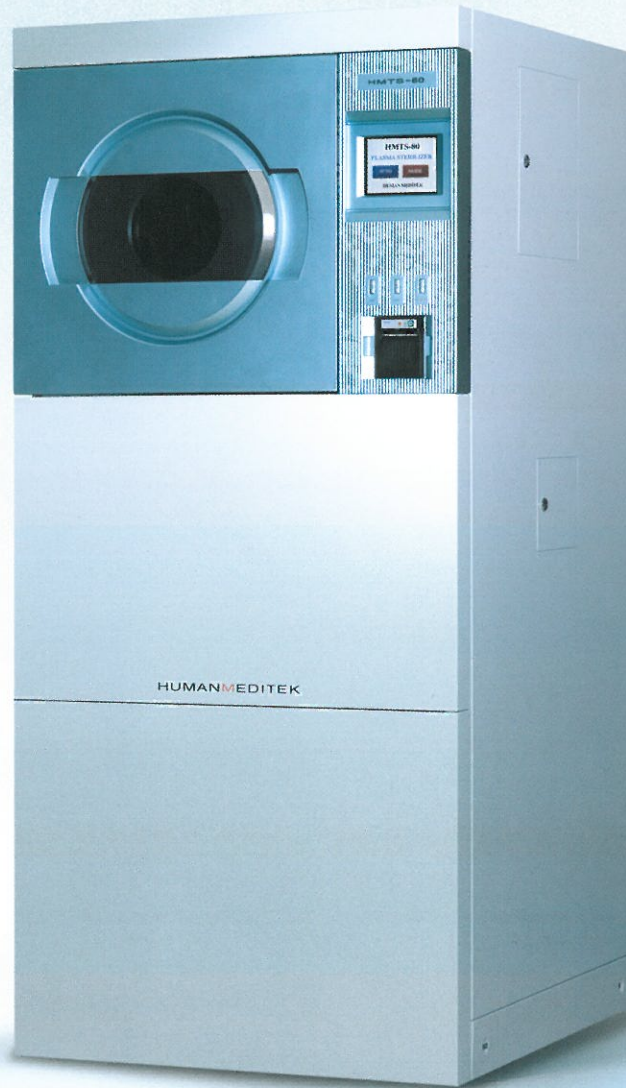


**HMTS** SERIES

# Low Temperature Plasma Sterilizer



HMTS-80

"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!

\* There are two options available for operating HMTS-80 Model (HMTS-80, HMTS-80E)



# HMTS-80

## Low Temperature Plasma Sterilizer System



HMTS-80

### Dimension, Weight

- **Size** Width 752 mm (29.6 inch)  
Height \* 1675 mm (65.9 inch)  
Depth 835 mm (32.9 inch)
- **Weight** 430 kg (948 lbs)  
\* from mobile wheel

### Sterilization Chamber

- Total Volume** Ø400mm x 650mm(D)  
80 Liter (2.83 cubic feet)
- Usable Volume** 71 Liter (2.50 cubic feet)
- Shelf Strength** 35 kg (77 lbs)
- Shelf Dimensions** Upper : 380mm(W) x 630mm(D)  
Lower : 260mm(W) x 630mm(D)

### HMTS-80 Sterilization System Cycle

#### Normal process (Duplicate cycle)

<b>Vacuum 1 Stage</b>	Initial evacuation of sterilization chamber.
<b>Diffusion 1 Stage</b>	Automatic injection and diffusion stage.
<b>Vacuum 2 Stage with Plasma 1 Stage</b>	Re-evacuation of sterilization chamber.
<b>Diffusion 2 Stage</b>	Automatic injection and diffusion stage.
<b>Plasma 2 Stage</b>	Re-evacuation of sterilization chamber.
<b>Vent &amp; Dry Run Stage</b>	Return of sterilization chamber to atmospheric pressure and re-evacuation of chamber.
<b>Total Cycle Time</b>	35-40 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, 3.5kw, Single phase

#### Placement :

Built-in wheels provide mobility.

#### Operational Environment :

15 - 40°C (59 - 104°F)  
0 - 95%RH (Non-condensing)

#### Installation Space :

Minimum area : 113.5 x 150.2 cm (44.7 x 59.1 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

- 5.7" liquid crystal display and audible alarm provide operator with proper information.
- Built-in thermal printer and smart memory card generate system performance record and data storage for each cycle.
- Refer to operator's manual for display and printer messages.

### HMTS-80E

**Operating system :** Windows XP Embedded

**User Interface :** 6.4" TFT touch Monitor and Audible alarm & voice

**Network :** 100/10 Mbps Ethernet

**Print :** Built-in thermal printer

**Self-test** functions are available



### Regulatory Approvals

- 1) Medical Devices Directive 93/42/EEC
- 2) ISO 9001:2008 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 14971:2007 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 61010-2-040:2005 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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