

# Low Temperature Plasma Sterilizer



THVITO COL

"Can endoscopes be sterilized thoroughly?"

"Is the sterilization cost reasonable?"

"Are you fully prepared for meeting new and more stringent environmental regulations?"

"Do you want quick sterilization?"

"Is your sterilizer easy to operate?"



# HMTS has the Best Answer!

# HMTS-30E Low Temperature Plasma Sterilizer System



# HMTS-30E

## **Dimensions, Weight**

Size Width 740 mm (29.1 in) Height 830 mm (32.6 in)Depth 702 mm (27.6 in) Weight 160 kg (352.7 lbs)

#### Sterilization Chamber

**Total Volume** 34 L (1.2 cubic feet) Usable Volume 30 L (1.0 cubic feet) 340mm x 170mm x 600mm Dimensions (W x H x D) (13.4 in x 6.7 in x 23.6 in)

**Shelf Strength** 25 kg (55 lbs) 320mm x 560mm Shelf Dimensions (W x D)

## **HMTS-30E Sterilization System Cycle**

### Normal cycle (Dual cycle)

Vacuum 1 Stage	Initial evacuation of sterilization chamber
Diffusion 1 Stage	Automatic injection and diffusion stage
Vacuum 2 Stage with Plasma 1 Stage	Re-evacuation of sterilization chamber
Diffusion 2 Stage	Automatic injection and diffusion stage
Plasma 2 Stage	Re-evacuation of sterilization chamber
Aeration & Dry Run Stage	Return of sterilization chamber to atmospheric pressure and re-evacuation of chamber
<b>Total Cycle Time</b>	Surface: 17±3min, Standard: 27±3min, Advanced: 39±3min

Cycle time varies depending on the type of load being sterilized.

#### Installation and Operating Requirements

#### Electricity:

200 - 240 VAC, 50 - 60 Hz, 3kW, 1 phase

### Placement:

Built-in wheels provide mobility.

#### Operational environment:

Temperature 18°C - 35°C (64.4°F - 95°F) Humidity 10% - 85% RH (Non-condensing)

#### Installation space:

Minimum area: 1057 mm x 1056 mm (41.6 in x 41.5 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 sides

#### **Features**

Operating system: Windows Embedded

User interface: 7" TFT Touch Monitor and Audible Alarm provide

proper data-acquisition.

Network: 100/10 Mbps Ethernet Printer: 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.

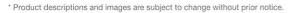
#### **Normative Reference**

- 1) ISO 14971: 2007 Medical Device. Application of risk management to medical devices
- 2) ISO 10993-5: 1999 Biological evaluation of medical devices Part 5: Tests for in vitro cytotoxicity
- 3) EN 61010-1: 2001 Safety requirements for electrical equipment for measurement, control and laboratory use. General requirements.
- 4) EN 61010-2-040: 2005 Particular requirements for sterilizers and washer-disinfectors used to treat medical materials
- 5) EN 60601-1-2: 2001+A1; 2006. Medical electrical equipment. General requirements for safety. Collateral standard. Electromagnetic compatibility. Requirements and tests.









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