The Industry’s Most Efficient, Large-Capacity, Tabletop Sterilizer

NO STEAM • NO DRYING • NO CORROSION • NO MAINTENANCE
RapidHeat Sterilization

RapidHeat Sterilization Technology has evolved from NASA’s early space exploration requiring an environmentally and ecologically safe and efficient method to decontaminate space vehicles returning to earth. Today, this technology, described as “High-Velocity Hot Air” (HVHA) Sterilization has been applied to tabletop sterilization systems that provide fast, waterless, chemical-free, maintenance-free processing of medical instruments.

Ease of Operation

HVHA Sterilization is activated by a simple push of a cycle button. Since there is no steam pressure, the complete cycle from door closed to door open is 20 minutes for wrapped instruments. Each cycle is documented with infinite storage for easy retrieval at any time via a USB Flash Drive. Since HVHA sterilization operates at very low wattage, you can leave the system running all day with very little energy cost.

Spore Kill-Rate Efficiency

The above line graph illustrates how quickly HVHA sterilization kills Bacillus atrophaeus spores (representing the most resistant form of bacteria) when four chamber trays, each containing a full 800-gram instrument load, are processed at various time exposures for both unwrapped and wrapped (pouched) cycles. Once the load reaches the pre-heat temperature threshold (six minutes unwrapped and ten minutes pouched) spore kill begins at a constant kill rate of one-Log₁₀ per 32 seconds with a six- Log₁₀ kill in three minutes. To meet FDA’s Sterility Assurance Level (SAL) of an additional six-Log₁₀ spore kill, each cycle continues another three minutes for a total chamber exposure time of 12 minutes for unwrapped and 16 minutes for pouched.

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NOTES:
• Start to Finish Cycle represents the time range for sterilizing unwrapped, pouched, and wrapped (cassette/tray) instruments from cold start to finish (includes dry cycle for steam).
• Sterilizer Operation reflects the level of sterilizer preparation and management for instrument processing.
• Potential for Instrument Corrosion is absent in the dry environment of a RapidHeat sterilizer and high for instruments in a steam environment.
• Energy Use represents kilowatts of power used per hour when operating a sterilizer cycle. This study was conducted by the Rochester Institute of Technology comparing RapidHeat to 2 popular tabletop steam sterilizers.
• Maintenance and Repair Cost is based on actual reported costs and estimated over useful life.

<table>
<thead>
<tr>
<th>Sterilizer Feature</th>
<th>RapidHeat™</th>
<th>Steam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start to Finish Sterilization Cycle</td>
<td>12-20 Minutes</td>
<td>61-116 Minutes</td>
</tr>
<tr>
<td>Sterilizer Operation</td>
<td>Simple</td>
<td>Complex</td>
</tr>
<tr>
<td>Water Requirements</td>
<td>None</td>
<td>Distilled Water</td>
</tr>
<tr>
<td>FDA 510(k) Cleared</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Cycle Documentation</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Instrument Drying Cycle</td>
<td>None</td>
<td>FDA Required</td>
</tr>
<tr>
<td>Potential for Instrument Corrosion</td>
<td>None</td>
<td>High</td>
</tr>
<tr>
<td>Energy Use (kWh/cycle)</td>
<td>11¢/cycle</td>
<td>74¢/cycle</td>
</tr>
<tr>
<td>Maintenance and Repair Cost</td>
<td>80¢/cycle</td>
<td>$6/cycle</td>
</tr>
</tbody>
</table>

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Features:
NO STEAM • NO DRYING • NO SHORT-CUTS • NO WORK-AROUNDS • NO DELAYS

RapidHeat Pro11 Sterilizer
• Large Table-Top Capacity (2295 Cubic Inches)
• True Complete 12-Minute Wrapped Cycle – No Shortcuts for Immediate Use
• Completely Non-Corrosive Sterilization Environment
• Handles Four Large Instrument Trays Per Sterilization Cycle
• Waterless Sterilization with No Chemicals
• Virtually Quiet with No Excessive Room Warming
• No More Wet Wraps and Instruments
• Uses 85% Less Energy Than Steam

Cox RapidHeat Sterilizer
• FDA-Cleared Six Minute Cycles (Unwrapped) - 12 Minute Cycles (Wrapped)
• Does Not Corrode, Pit, or Dull Instruments
• Does Not Use Water, Steam or Chemicals – Environmentally Sustainable
• Little or No Maintenance and Repair
• Perfect for Small Practices
### RapidHeat™ Pro11 and Cox Comparison

<table>
<thead>
<tr>
<th>Sterilizer Features</th>
<th>RH Pro11</th>
<th>Cox RapidHeat</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Velocity Hot Air Technology</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Sterilizer Cycle Temperature</td>
<td>375° F.</td>
<td>375° F.</td>
</tr>
<tr>
<td>Number of Programmed Cycles</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Spore Kill Rate per Minute</td>
<td>Same</td>
<td>Same</td>
</tr>
<tr>
<td>Cycle Documentation</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of Instrument Trays</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Sterilizer Chamber Capacity</td>
<td>1.33 ft³</td>
<td>0.17 ft³</td>
</tr>
<tr>
<td>Energy &amp; Maintenance</td>
<td>Same</td>
<td>Same</td>
</tr>
</tbody>
</table>

### RH-Pro11

**Unit Size (OD)**
- 22.5” W x 22.5” D x 19.5” H
  - 572mm x 572mm x 495mm

**Chamber Size (ID)**
- 11” W x 11.75” D x 11.75” H
  - 279mm x 433mm x 299mm

**Chamber Capacity**
- 2294 cubic inches (10 gal/38 liters)

**Instrument Tray Size (ID)**
- 9” W x 15” D x 1” H
  - 229mm x 381mm x 28mm

**Unit Weight**: 90 lbs. (41kg)
**Shipping Weight**: 109 lbs. (49kg)

### Cox RapidHeat

**Unit Size (OD)**
- 17” W x 17” D x 15” H
  - 432 mm x 432 mm x 381 mm

**Chamber Size (ID)**
- 9.625” W x 7.75” D x 4” H
  - 244mm x 197mm x 102mm

**Chamber Capacity**
- 298 cubic inches (1.3 gal/5 liters)

**Instrument Tray Size (ID)**
- 9.5” W x 7.75” D x 1.875” H
  - 241mm x 197mm x 48mm

**Unit Weight**: 50 lbs (23 Kg)
**Shipping Weight**: 61 lbs. (28 kg)

### Electrical
- 110-120V, 60Hz, 1400 Watts warm up,
  - 300 Watts operating
- 220-240V, 50Hz, 1400 Watts warm up,
  - 300 Watts operating
- TUV Electrical Safety/EMI
- CE Directive Compliance

**Sterilization Temperature**
- 375° Fahrenheit (190° Celsius)

**Warranty**
- Three-Year (parts and labor)

### Sterilization Times
- Cycle 1: Six minutes for unwrapped instruments
- Cycle 2: Eight minutes for hand pieces and medical drills
- Cycle 3: 12 minutes for pouched, wrapped instruments, trays and cassettes

**Included with Sterilizer**:
- Instructions & Care Card
- User Manual
- Four Instrument Trays
- One Pair Tray Removal Safety Gloves

**Equipment Options**:
- Pouch Racks