

RH-Pro11

HIGH-VELOCITY HOT AIR STERILIZERS



**The Industry's Most Efficient, Large-Capacity,
Tabletop Sterilizer**

NO STEAM • NO DRYING • NO CORROSION • NO MAINTENANCE

CPAC
ENVIRONMENTAL SOLUTIONS

RapidHeat Sterilization

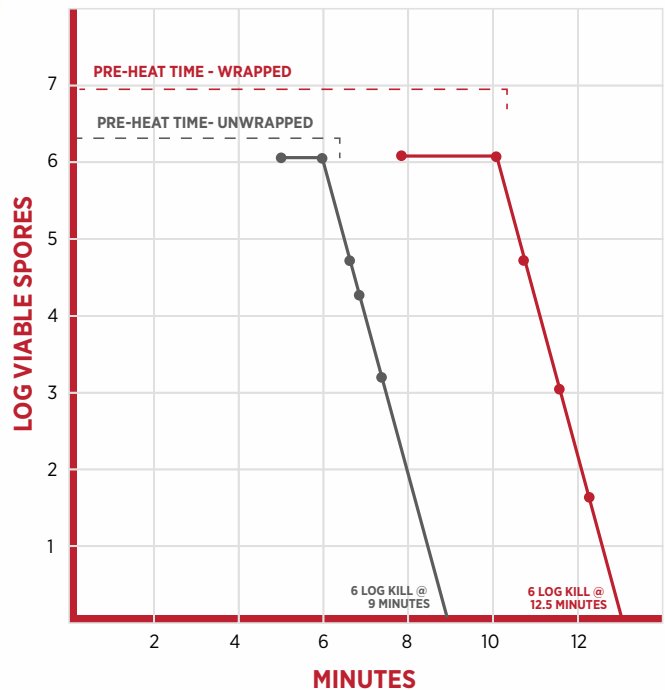
RapidHeat Sterilization Technology has evolved from NASA's early space exploration requiring an environmentally and ecologically safe and efficient method to decontaminate space vehicles returning to earth. Today, this technology, described as "High-Velocity Hot Air" (HVHA) Sterilization has been applied 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.



**Log₁₀ Spore Reduction vs. Time
Wrapped and Unwrapped Sterilization Cycles**



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.

RapidHeat vs. Steam

FEATURE COMPARISON

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

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.

Features:

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



THE HIGH-VELOCITY HOT AIR (HVHA)
ADVANTAGE



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





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RapidHeat™ Pro11 and Cox Comparison

Sterilizer Features	RH Pro11	Cox RapidHeat
High-Velocity Hot Air Technology	Yes	Yes
Sterilizer Cycle Temperature	375° F.	375° F.
Number of Programmed Cycles	3	3
Spore Kill Rate per Minute	Same	Same
Cycle Documentation	Yes	Yes
Number of Instrument Trays	4	1
Sterilizer Chamber Capacity	1.33 ft ³	0.17 ft ³
Energy & Maintenance	Same	Same

RH-Pro11 HIGH-VELOCITY HOT AIR STERILIZERS

PRODUCT SPECIFICATIONS

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 17.75" 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)

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

CoxRAPIDHEAT™ HIGH-VELOCITY HOT AIR STERILIZERS

PRODUCT SPECIFICATIONS

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, 1100 Watts warm up,
 300 Watts operating
 220-240V, 50Hz, 1100 Watts warm up,
 300 Watts operating
 Intertek Electrical Safety/EMI

Sterilization Temperature

375° Fahrenheit (190° Celsius)

Warranty

Three Years (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
 One (1) Instrument Tray

Equipment Options:

Pouch Racks
 Tray Removal Safety Gloves
 Tray Cooling Rack