

**RH-Pro11**  
HIGH-VELOCITY HOT AIR STERILIZERS

**RH-Pro9**  
HIGH-VELOCITY HOT AIR STERILIZERS

# **RAPIDHEAT™ HVHA STERILIZERS**

**Cutting-Edge High-Velocity Hot Air**



## **CHOOSE THE PERFECT SIZE FOR YOUR PRACTICE**



**NO WATER • NO DRYING • NO CORROSION • NO MAINTENANCE**

# THE HIGH-VELOCITY HOT AIR (HVHA) ADVANTAGE

## RAPIDHEAT HVHA STERILIZER Features:

- Rectangular chambers with more uniform capacity
- Easy and simple touch screen operation
- Non-corrosive waterless environment
- Quiet operation with **NO** emissions
- Uses 85% less energy than steam

## RapidHeat HVHA Sterilizer Benefits:

- Faster sterilization reduces workarounds
- No drying cycle means no short-cuts or delays
- No more wet wraps and instruments
- Saves \$\$ on instrument replacement from corrosion
- Eliminates high sterilizer maintenance and repair costs

## Introducing NEW Model Versions: RH-Pro11c & RH-Pro9c

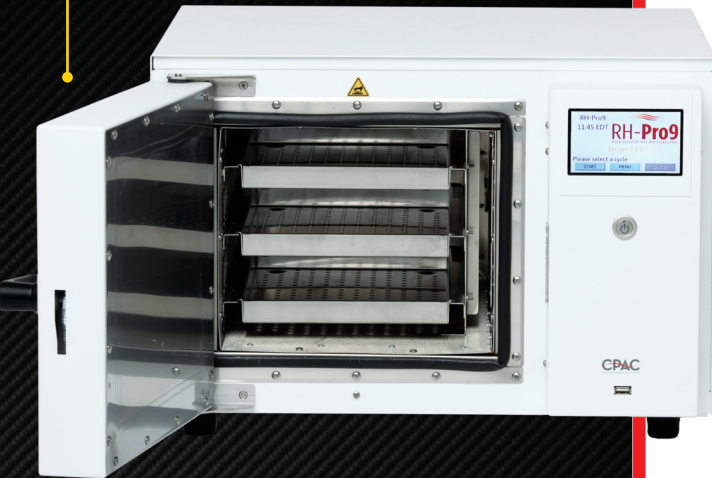
*Includes Conversion Option for N95 Mask Decontamination when N95 FFR Mask Reuse is allowed During Public Health Emergency Pandemics.*

- Includes Flash Drive Conversion Kit for converting to mask decontamination.
- Allows converting back to sterilizer function in minutes.
- Includes autonomous data logger for independent temperature verification.
- Decontaminates FFR Masks @ 175°F for 30 Minutes
- Complies With FDA guidelines authorizing use of dry heat.



## RH-Pro9

- Compact Design
- Three Large Trays
- Fits in Most Cabinets



## RH-Pro11

- High-Volume Capacity
- Four Large Trays
- Handles Large Instrument Cassettes



# IT'S NOT JUST DRY HEAT!

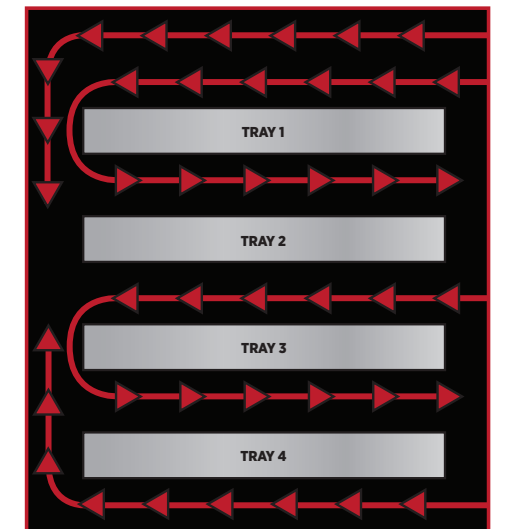
Unlike traditional Dry Heat, RapidHeat™ is an advanced thermal sterilization technology circulating high velocity hot air in a sealed chamber at 200 to 300 air exchanges per minute. RapidHeat sterilization technology is designed with features to improve the efficiency of all dental and healthcare practices where tabletop sterilizers play a critical role in the sterilization of medical devices.

## 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. 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 internal 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.



*HVHA Sterilization moves heated air rapidly and provides shorter start-to-finish pre-set cycles as well as faster, more effective sterility.*

## 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.

# RH-PRO9 AND PRO11 SPECIFICATIONS

<b>ELECTRICAL RATING</b>		
RH-Pro9/Pro11 115 VAC	120 VAC +/- 10%, 60Hz, 12 Amps • 1400 Watts warm-up, 300 Watts operating Transient Over-Voltage Category II Applies	
RH-Pro9/Pro11 230 VAC	230 VAC +/- 10%, 50/60Hz, 6 Amps • 1400 Watts warm-up, 300 Watts operating Transient Over-Voltage Category II Applies	
Instrument/Material Compatibility	Identical Compatibility of Materials and Instruments for RH-Pro9 and RH-Pro11 Instrument Sterilization	
<b>DIMENSIONS</b>	<b>PRO 9</b>	<b>PRO 11</b>
Weight	68.2 pounds (31 kg)	90 pounds (41 kg)
Width (OD)	19.63" (572mm)	22.5" (572mm)
Depth (OD)	20.00" (508mm)	22.5" (572mm)
Height (OD)	13.75" (349mm)	19.5" (495mm)
Chamber Dimension	9.5" (241mm) W • 15.6" (396mm) D 7.85" (199mm) H	11" (279mm) W • 17.75" (433mm) D 11.75 (299mm) H
Chamber Capacity	1163 cubic inches • (5 gal/19 liters)	2294 cubic inches • (10 gal/38 liters)
Instrument Tray (ID)	7.3" (76mm) W • 12" (305mm) D • 0.85" (22mm) H	9" (229mm) W • 15" (381mm) D • 1" (28mm) H
Instrument Tray Capacity (Total)	223 sq. inches (3 Trays)	540 sq. inches (4 Trays)
<b>STERILIZATION CYCLES TIME</b>	<b>PRO 9</b>	<b>PRO 11</b>
<b>TOTAL PROCESSING TIME</b>		
Unwrapped	6 Minute Cycle; 14 Minutes	6 Minute Cycle; 14 Minutes
Handpieces	8 Minute Cycle; 16 Minutes	8 Minute Cycle; 16 Minutes
Wrapped/Pouched	12 Minute Cycle; 21 Minutes	12 Minute Cycle; 21 Minutes
Wrapped Cassettes	12 Minute Cycle; 36 Minutes	12 Minute Cycle; 40 Minutes
<b>INSTRUMENT CAPACITY</b>	<b>PRO 9</b>	<b>PRO 11</b>
Unwrapped	2.4 kg; 120 Dental Instruments	3.2 kg; 160 Dental Instruments
Handpieces (Unwrapped)	15 Handpieces; 5 per Tray	24 Handpieces; 6 per Tray
Wrapped Instruments	2 kg; 8 Dental Instruments/Pouch; 4 Pouches/Tray; 3 Trays/Load Total Instruments/Load: 96	3.2 kg; 8 Dental Instruments/Pouch; 5 Pouches/Tray; 4 Trays/Load Total Instruments/Load: 160
<b>WRAPPED CASSETTES</b>	<b>PRO 9</b>	<b>PRO 11</b>
5.5" x 8" x 1.5"	3 Cassettes (Total: 24 Instruments)	8 Cassettes (Total: 64 Instruments)
6" x 8" x 1.5" (2-Tier)	3 Cassettes (Total: 54 Instruments)	No 2-Tier Cassettes
8" x 11" x 1.5"	No 8" x 11" Cassettes	4 Cassettes (Total: 80 Instruments)
<b>ENVIRONMENTAL OPERATING CONDITIONS (INDOOR)</b>		
Temperature Range of 5°C to 40° C (41°F to 104°F) • Operating Temperature of 375°F (190°C) • Maximum Relative Humidity of 80% up to 31°C (88°F). Decreasing linearly to 50% at 40°C (104°F) • Pollution Degree 2 applies in accordance with IEC 664 • Maximum altitude of 2000 meters (6562 ft.)		
<b>CERTIFICATIONS</b>		
Markings	UL, CE, US 	
510(k)	K872643A; K881371	
Patents Pending		