



FEATURING

High/Low Temperature Sterilization in a Single Unit!





NO WATER • NO DRYING • NO CORROSION • NO MAINTENANCE

The RH-Pro9 and RH-Pro11 are the Perfect Sterilizer Additions to "Healthcare Sterile Processing" for Immediate Instrument Turnaround!

Hospital Critical Care Departments and Ambulatory Surgical Centers depend on fast and efficient delivery of diagnostic and surgical instruments. RapidHeat (Steam-Free) Sterilizers have responded providing the most effective and dependable instrument turnaround on the market today.

AM COT RH

RH-Pro9 and RH-Pro11 Features:

- No Drying Wrapped Instruments in 21 minutes
- Nylon Pouched Delivery to Point-Of-Use Assures Sterility
- Eliminates Regulated "Immediate Use" Protocol
- Space-Saving Table-Top Sterilizer Design Fits Anywhere
- Proven to Neutralize Encapsulated Bioburden
- Perfect for Emergency Instrument Sterilization in ERs and ORs

Optional Thermal Sensor Confirms Sterilization of Instruments

To independently measure and confirm load exposure to the conditions required for all RapidHeat cycles, CPAC offers as an optional accessory a CPAC CIR[™] Thermal Sensor. The CIR Thermal Sensor has been designed to replace often unreliable and inaccurate chemical indicators.

- Independent confirmation of each cycle timetemperature profile
- Eliminates dependency on fallible chemical indicators
- Confirms the time-temperature required to achieve spore inactivation
- Demonstrates correlation with sterilizer-controlled time-temperature

With four large trays, the RH-Pro 11 can sterilize as many as

POUCHED INSTRUMENTS

in 21 minutes.

RH-Pro9

- Compact design
- Three large trays
- Fits in most cabinets



RH-Pro11

- High-volume capacity
- Four large trays
- Handles large instrument
 cassettes



THE HIGH-VELOCITY HOT AIR (HVHA)

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 65% 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

CONSIDERATIONS FOR Choosing the Right Size

- Need to conserve counter space RH-Pro9
- Require larger single load capacity **RH-Pro11**
- Need ease of mobility and handling **RH-Pro9**
- Processing large cassettes and packs RH-Pro11

Both units are extremely low-maintenence and feature the same "fast" instrument turn-around that has become the hallmark of RapidHeat™ Sterilization.

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.

Compare RapidHeat[™] Processing with Steam

Pre-Programed Cycle	Sterilization Temperature		Hot Cycle Time: (Fill Time, Heat-up and Vent -Minutes)		Sterilization Process Time (Minutes)		Default Dry Time (Minutes)		Total Process Time (Minutes)	
	M11	Pro11	M11	Pro11	M11	Pro11	M11	Pro11	M11	Pro11
Unwrapped	270°F	375°F	15	0	3	14	30	0	48	14
Handpieces	270°F	375°F	16	0	6	16	30	0	52	16
Wrapped	270°F	375°F	17	0	5	21	30	0	52	21
Packs	250°F	375°F	14	0	30	40	30	0	74	40

NOTES:

• Wrapped is defined as sterilization pouches commonly used to wrap instruments

Packs are defined as wrapped trays & wrapped cassettes

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. NASA considers Dry Heat as the "gold standard" for microbial reduction and encapsulated bioburden. Today, dry heat technology has been augmented with rapidly moving air, described as "High-Velocity Hot Air" (HVHA[™]). This technology has been applied to tabletop sterilization systems that provide fast, waterless, chemical-free, maintenance-free processing of medical instruments. • Hot Cycle & Dry Time sequence is not applicable to RapidHeat

• M11 data extracted from Midmark published documents

Default Dry Time for M11 may need to be increased to insure a complete dry load is achieved

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 21 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.

Rapio	dHeat
vs. St	team
FEATURE	COMPARISON



Notable Feature	RapidHeat™	Steam	
Sterilizer Preparation & Operation	Simple	Complex	
Steam Source	N/A	Distilled Water	
Performance Testing	CI, BI & CIR Sensor	CI & BI Only	
Cycle Documentation	Optional Printer & USB	Optional Printer	
Instrument Drying Cycle	N/A	FDA Required	
Potential for Instrument Corrosion	None	High	
Energy Use (kWh/cycle)	11¢/cycle	74¢/cycle	
Preventative & Corrective Maintenance	\$200-\$300/Year	\$3000-\$4000/Year	

NOTES:

- Sterilizer Preparation & Operation is defined as the level of preparation and management required 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 HVHA to 2 popular tabletop steam sterilizers.
- Preventative & Corrective Maintenance (averaged over sterilizer useful life) includes the time-cost of user employees performing routine sterilizer maintenance at regular intervals and the cost of engaging outside contractors to provide technical service and correct sterilizer failures.

[•] M11 Ultraclave® is a registered trademark of Midmark Corporation

QUESTIONS & ANSWERS RapidHeat[™] Low-Temperature Sterilization Cycles

Why have you created low-temperature cycles?

Low-Temperature cycles were created to expand the RapidHeat Sterilizer's ability to process instruments at lower temperatures that manufacturers have only validated for steam sterilization.

Does that mean I can use a RapidHeat low temperature cycle on the same plastic devices I have been sterilizing in an autoclave?

Yes! Many reusable medical devices are manufactured from inexpensive, temperature-sensitive plastics such as Polypropylene (PP). Traditionally, these instruments have only been compatible with autoclave temperatures.

How do I know which of the three cycles to choose?

Selection can be based on the instrument manufacturer's maximum temperature recommendation. You can also consult with us or use your discretion in choosing the appropriate temperature setting.

Are there load limitations for low-temperature cycles and can I mix instruments?

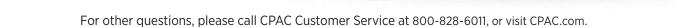
Yes. as with an autoclave there are load limitations, BUT you don't have to worry about mixing instruments as you would with an autoclave. For example, there's no problem sterilizing a carbon and stainless steel instrument in the same pouch.

Can I use the same chemical indicator that I use in my autoclave to validate that my load has been exposed to the time-temperature cycle required for sterilization?

NO, Chemical Indicators used for steam cannot be used in our sterilizers. Use only dry heat chemical indicators that are supplied with the nylon pouches required for use at our standard high-temperature 375°F. degree cycle. In the absence of a chemical indicator you can use our CIR™ Thermal Sensor that independently documents the load time-temperature profile.

Can I use the same sterilization pouches that I used for my autoclave for RapidHeat Low-Temperature sterilization?

Yes you can. Most steam (autoclave) pouches are capable of being used color change of a chemical indicator imprinted on the pouch – instead rely on dry heat chemical indicators and/or our CIR Thermal Sensor.





RH-Pro9 and RH-Pro11 Specifications

ELECTRICAL RATING				
RH-Pro9/Pro11 115 VAC	120 VAC +/- 10%, 60Hz, 12 Amps • 1400 Watts warm-up, 300 W Transient Over-Voltage Category II Applies	atts operating		
RH-Pro9/Pro11 230 VAC	230 VAC +/- 10%, 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			
DIMENSIONS	PRO 9	PRO 11		
Weight	68.2 pounds (31 kg)	90 pounds (41 kg)		
Width (OD)	19.63" (572mm)	21.5" (546mm)		
Depth (OD)	20.00" (508mm)	22.5" (572mm)		
leight (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)		
nstrument Tray (ID)	7.3" (76mm) W • 12" (305mm) D • 0.85" (22mm) H	9" (229mm) W • 15" (381mm) D • 1" (28mm) H		
nstrument Tray Capacity (Total)	223 sq. inches (3 Trays)	540 sq. inches (4 Trays)		
TOTAL PROCESSING CYCLE TIMES STANDARD HIGH-TEMPERATURE	PRO 9	PRO 11		
Jnwrapped	14-Minute Cycle	14-Minute Cycle		
landpieces	16-Minute Cycle	16-Minute Cycle		
Vrapped/Pouched	21-Minute Cycle	21-Minute Cycle		
Vrapped Trays & Cassettes	36-Minute Cycle	40-Minute Cycle		
TOTAL PROCESSING CYCLE TIMES	PRO 9	PRO 11		
320°F (160°C)	36-Minute Cycle	42-Minute Cycle		
500°F (149°C)	56-Minute Cycle	58-Minute Cycle		
280°F (138°C)	126-Minute Cycle	126-Minute Cycle		
INSTRUMENT CAPACITY	PRO 9	PRO 11		
Inwrapped	2.4 kg; 120 Instruments	3.2 kg; 160 Instruments		
Handpieces (Unwrapped)	15 Handpieces; 5 per Tray	24 Handpieces; 6 per Tray		
Wrapped Instruments	2 kg; 8 Instruments/Pouch; 4 Pouches/Tray; 3 Trays/Load Total Instruments/Load: 96	3.2 kg; 8 Instruments/Pouch; 5 Pouches/Tray; 4 Trays/Load Total Instruments/Load: 160		
WRAPPED CASSETTES	PRO 9	PRO 11		
5.5" x 8" x 1.5"	3 Cassettes (Total: 24 Instruments)	8 Cassettes (Total: 64 Instruments)		
" x 8" x 1.5" (2-Tier)	3 Cassettes (Total: 54 Instruments)	4 Cassettes (Total: 72 Instruments)		
x 11" x 1.5"	Cassette size prohibits use in Pro9	4 Cassettes (Total: 80 Instruments)		
ENVIRONMENTAL OPERATING CONE	NITIONS (INDOOR) - STANDARD STERILIZATIO	ON CYCLES		
	perating Temperature of 375°F (190°C) • Maximum Relative Humidi h IEC 664 • Maximum altitude of 2000 meters (6562 ft.)	ty of 80% up to 31°C (88°F). Decreasing linearly to 50% at 40°C		
CERTIFICATIONS				
Markings	UL, CE, US FC			
EDA 510(k)	K872643A; K881371			
rranty 3-Years (Parts & Labor)				
Patents And Patents Pending	1			

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