

# MIDMARK

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## INSTRUMENT PROCESSING





## Trust the best.

With three out of four procedures now taking place in ambulatory care settings, it's time to take a deeper look at instrument processing in your facilities. Midmark instrument processing solutions can help transition you beyond just cleaning and sterilizing to a more holistic, standardized approach. Each element from our ultrasonic cleaners to our casework has been fine-tuned to take the worry and complexity out of instrument processing.

cabinetry options help standardize your workflow in an array of designs

QuickClean™ ultrasonic cleaners deliver powerful cleaning, consistent results

Ritter Sterilizers available in three sizes to fit your needs

### Ease-to-Use

What good is technology if it's not easy to use? Midmark instrument processing solutions are built to be simple to use right out of the box. And if you ever need help, we're here.



### Supported

You may not think about your instrument processing equipment until it goes down. But rest assured that if it does, we'll be there to get you back up and running quickly.



## Technology should empower you, not hold you back.

Midmark instrument processing solutions are designed from the inside out to perform consistently throughout the life of the product. Our products do their job, so you can do yours.





# Ritter Sterilizers

Ritter offers a full line of tabletop sterilizers designed to be safe and dependable with stainless steel construction and third-party ASME certification, so you can be confident your instruments are sterilized properly each cycle. And all of our sterilizers are designed, manufactured and supported in the U.S. with over 100 years of manufacturing experience built into each one.

Pre-Programmed Cycle	Sterilization Temperature	Hot Cycle Time (Fill, Heat-up & Vent)			Sterilization Time			Dry Time			Total Hot Cycle Time w/o Dry			Total Hot Cycle Time w/ Dry		
		M11	M9	M3	M11	M9	M3	M11	M9	M3	M11	M9	M3	M11	M9	M3
Unwrapped	270°F (132°C)	15 Min	11 Min	2.5 min	3 Min	3 Min	3.5 Min	30 Min	30 Min	25 Min	18 Min	14 Min	6 Min	18 Min	44 Min	31 Min
Pouches	270°F (132°C)	17 Min	12 Min	5 min	5 Min	5 Min	5.5 Min	30 Min	30 Min	30 Min	22 Min	17 Min	10.5 Min	52 Min	47 Min	40.5 Min
Packs/Low Temp	250°F (121°C)	14 Min	10 Min	4.5 min	30 Min	30 Min	20 Min	30 Min	30 Min	50 Min	44 Min	40 Min	10.5 Min	74 Min	70 Min	74.5 Min
Handpieces	270°F (132°C)	16 Min	11 Min	N/A	6 Min	6 Min	N/A	30 Min	30 Min	N/A	22 Min	17 Min	N/A	52 Min	47 Min	N/A

Note: Cycle times are approximate and may vary depending on instrument load.

easy-to-read on-screen prompts

one of the largest chamber sizes of any tabletop sterilizer

## Dynamic Air Removal

Midmark autoclaves utilize Steam-Flush Pressure Pulse air removal technology to remove air from the chamber. This system is designed to be efficient and to ensure good steam penetration, allowing for the passing of air removal tests required by more complex vacuum steam sterilizers. Plus, less complexity means better reliability and a cost-effective solution for your sterilization needs.

## Safety Features

### Open-Door Drying

Once sterilization is complete, the door opens automatically and quietly to dissipate steam and dry your instruments.

### Programmed Controls

Once a pre-programmed cycle is selected, the unit is designed to automatically sterilize without any operator assistance.

### Smart Technology

If the door isn't closed completely or the water level is low, the sterilizer will stop and alert the operator to take proper action.

integrated technology that eliminates the need to continually monitor water levels.





# QuickClean™ Ultrasonic Cleaners

## Powerful Cleaning, Consistent Results

Providing powerful, effective cleaning and consistent results, the QuickClean Ultrasonic Cleaner is a piece of equipment your office can't be without. It's cutting-edge technology can help you create a safer, more efficient work environment by decreasing worker exposure to contaminants and potential sharps injuries while reducing the time and effort needed for cleaning.

three convenient sizes to fit your needs

stainless steel construction



### Powerful

Integrated Frequency-Leap technology ensures homogenous cavitation activity throughout the tank, creating a consistent cleaning action no matter where your instruments are placed in the basket.

### Simple to Operate

QuickClean is easy to use right out of the box, so you can get your staff up and running with minimal training time.

### Range of Sizes

QuickClean comes in three table top sizes (1.2, 3.3 and 6.6 gal.) and two recessed options (3.3 and 6.6 gal.), so you can choose the option that best fits your configuration and workflow needs.

### Flexible Workflow

To support different workflows, our baskets are designed to provide flexibility. Two small baskets fit into the medium sized unit while a medium and small basket both fit into the large unit.



### Recessed Options

Improve visibility, access and ergonomics with the recessed option (available in 3.3 and 6.6 gal).



### Beaker Option

The beaker accessory supports the cleaning of very small items. Ultrasonic activity passes through the glass into the liquid within the beaker.





# The Sterilization Process

Ensuring consistency of sterilization practices requires a comprehensive program that ensures operator competence and proper methods of: 1.) cleaning and decontamination 2.) preparation and packaging 3.) sterilization 4.) and storage.

red plexi-glass windows can be selected to indicate dirty storage

durable steel frame construction to withstand the demands of a medical facility

blue plexi-glass can be selected to indicate clean storage

1.

2.

3.

4.

cabinets are available in many configurations and sizes which help maximize efficiency in the instrument processing area

space-saving sterilization tower holds two tabletop sterilizers

## 1. Cleaning and Decontamination

Reusable instruments, supplies and equipment should be received, cleaned and decontaminated in one section of the processing area.

## 2. Preparation and Packaging

Cleaned instruments and other supplies should be inspected, assembled into sets or trays and wrapped, packaged or placed into container systems for sterilization.

## 3. Sterilization and Monitoring

The sterilization area should include the sterilizer and related supplies with adequate space for loading, unloading and cool down. Use mechanical, chemical and biological monitoring to ensure effectiveness of the sterilization process.

## 4. Storage

The storage area should contain storage for sterile items and disposable items. Supplies and instruments should not be stored under sinks or in other locations where they might become wet.



## Casework Standard Features



### Seamless Panels

Seamless, polymer-covered panels are designed to provide a durable surface that resists spilled fluids and chemicals and can be cleaned with no surface degradation.



### Steel Hinges

Concealed, adjustable hinges mount to the steel frame to give a distinct, clean look that withstands everyday use.



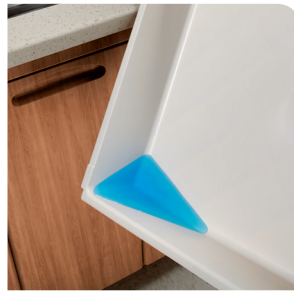
### Maximum Drawer Space

Full extension slides are designed to be sturdy and allow you to use all available drawer space, including hard-to-reach spaces in the back.



### Steel Frame Construction

Steel frame construction delivers long life and consistent door and drawer performance along with a flexible shell design to allow for changing configurations.



### Seamless Polystyrene Drawers

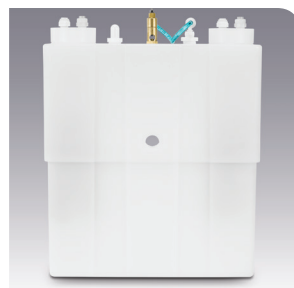
Rounded corners and one-piece construction are designed to allow drawers to contain spills and be easy to clean.

## VistaCool™ Direct-To-Drain System



### Single Unit

Designed to be compatible with the Midmark M3.

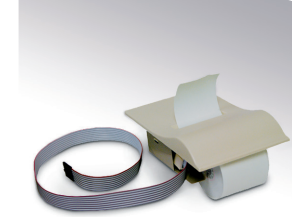


### Double Unit

Designed to be compatible with any two current Midmark sterilizers.

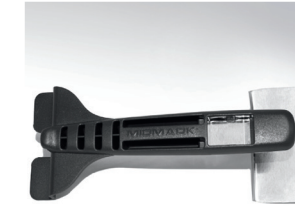
## Accessories and Supplies

### M9/M11



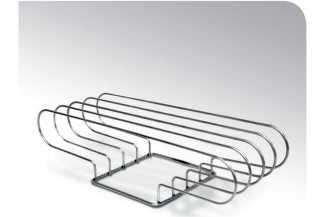
### Impact Printer

Records and prints critical sterilization cycle data, including time, temperature and pressure.



### Cool Hand Tool

Designed to help reduce the risk of staff injury by making it safer and simpler to load and unload your sterilizer.



### Pouch Rack

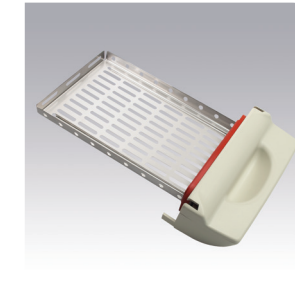
Designed to conveniently separate sterilization pouches for enhanced steam circulation and drying.

### M3



### Printer

Records and prints critical sterilization cycle data, including time, temperature and pressure.



### Door Tray

Lightweight, durable stainless steel handle ergonomically designed for balance and comfort.



### Top Cover Protector

Use the top cover protector to shield the M3 top from scratches or damage.

### QuickClean™



### Beaker Accessory Kits

Safely clean smaller items with the beaker accessory.



### Cleaning Solutions

Use the QuickClean with our ultrasonic cleaning solutions to ensure a quicker, more thorough clean.



### Baskets

Additional cleaning baskets will help eliminate bottlenecks and maximize flow.

### M11 Specifications

Length w/plug: 23.8" (60.5 cm)  
Width: 17.8" (45.2 cm)  
Height w/printer: 17.8" (45.2 cm)

Minimum Countertop Area:  
17.8"W x 21.0"D (45.2 x 53.3 cm)

Chamber: 11" x 18" (28 x 45.7 cm)  
6.5 gal usable volume (24.6 L)

Trays:  
Two Large – 9"W x 15"L x 1.1"D  
(22.9 x 38 x 2.9 cm)

Two Small – 6.6"W x 15"L x 1.1"D  
(16.8 x 38 x 2.9 cm)

Unit Weight: 99 lb (44.9 kg)  
Shipping Weight: 131 lb (59.4 kg)  
Water Reservoir Capacity: 1.4 gal (5.3 L)

### M9 Specifications

Length w/plug: 20.4" (51.8 cm)  
Width: 15.3" (38.9 cm)  
Height: w/printer 15.8" (40.1 cm)

Minimum Countertop Area:  
15.3"W x 17.9"D (38.9 x 45.4 cm)

Chamber: 9" x 15" (22.9 x 38.1 cm)  
3.5 gal usable volume (4.1 L)

Trays:  
Two Large - 7.3"W x 12" L x 0.8"D  
(18.6 x 30.5 x 2.2 cm)

Two Small - 5.6"W x 12"L x 0.8"D  
(14.3 x 30.5 x 2.2 cm)

Unit Weight: 73 lb (33.2 kg)  
Shipping Weight: 81 lb (36.7 kg)  
Water Reservoir Capacity: 1.1 gal (4.1 L)

### M9 & M11 Electrical Requirements

115VAC, 50/60 Hz, 15 Amps Single Phase  
115 VAC has 1425 watt tubular  
immersion heater

UL 61010-1, 2nd Edition  
IEC 61010-2-040, 1st Edition  
CAN/CSA C22.2 No. 61010-1, 2nd Edition  
CSA C22.2 No. 61010-2-040-07  
Part 2-040, 1st Edition

### All Midmark and Ritter sterilizers

Meet the requirements of ASME Boiler  
and Pressure Vessel Code  
Canadian Registered – CRN number is available

Recommend a separate (dedicated) circuit  
1 Year Limited Warranty

### M3 Specifications

Length w/plug: 22" (55.9 cm)  
Width: 17.8" (45.2 cm)  
Height: 6.9" (17.5 cm)

Minimum Countertop Area:  
22"W x 24"D (61 x 55.9 cm)

Chamber:  
12.1"L x 7.6"W x 1.6"H (30.7 x 19.3 x 4.1 cm)  
.49 gal usable volume (1.8 L)

Trays:  
7.25" W x 11.25"L x 1"D (29.8 x 18.4 x 2.5 cm)

Unit Weight: 71 lb (32.2 kg)  
Shipping Weight: 80 lb (36.3 kg)  
Water Reservoir Capacity: 1.2 gal (4.5 L)

### M3 Electrical Requirements

115 VAC, 50/60 Hz, 12 Amps  
Single Phase

Heater power: 1400 watts  
Maximum Power Consumption: 1400 watts

UL 61010-1, 2nd Edition  
IEC 61010-2-040  
CAN/CSA C22.2 No. 61010-1, 2nd Edition  
CSA C22.2 No. 61010-2-040  
FCC Part 15, Sub-part B

### QC1 Ultrasonic Cleaner Specifications

Tank Capacity 1.2 gal (4.5L)  
Length: 13.5" (34.5 cm)  
Width w/drain: 10.2" (26 cm)  
Height: 10.4" (26.5 cm)  
Tank Size: 11.8"L x 5.9" W x 5.9" H (30 x 15 x 15 cm)  
Tabletop Unit Weight: 12.7 lb (5.76 kg)  
Tabletop Shipping Weight: 14.6 lb (6.64 kg)

### QC1 Electrical Requirements

Input: 115VAC +/-10%, 60 Hz, 110W, 1.0 Amps  
Output: 100W

### QC3/QC3R Ultrasonic Cleaner Specifications

Tank Capacity: 3.3 gal (12.5 L)  
Length: 14.7" (37.5 cm)  
Width w/drain: 16.5" (42 cm)  
Height: 10.4" (26.5)  
Tank Size: 13"L x 11.8"W x 5.9"H (33 x 30 x 15 cm)  
Table Top Unit Weight: 18.6 lb (8.42)  
Table Top Shipping Weight: 20.9 lb (9.5 kg)  
Recessed Unit Weight: 22.3 lb (10.10 kg)  
Recessed Unit Shipping Weight: 24.6 lb (11.18 kg)

### QC3/QC3R Electrical Requirements

Input: 115 VAC +/- 10%, 60 Hz, 210W, 1.8 Amps  
Output: 200W

### QC6/QC6R Ultrasonic Cleaner Specifications

Tank Capacity: 6.6 gal (25L)  
Length: 21.6" (55 cm)  
Width w/drain: 16.5" (42 cm)  
Height: 14.3" (36.5 cm)  
Tank Size: 19.8" x 11.8" x 7.8" (50.5 x 30x 20 cm)  
Table Top Unit Weight: 29.6 lb (13.44 kg)  
Table Top Shipping Weight: 32.6 lb (14.78 kg)  
Recessed Unit Weight: 32.9 lb (14.92)  
Recessed Unit Shipping Weight: 35.8 lb (16.26 kg)

### QC6/QC6R Electrical Requirements

Input: 115 VAC +/- 10%, 60 Hz, 410W, 3.6 Amps  
Output: 400W

### All QuickClean™ Ultrasonics

UL 61010-1:2012  
CAN/CSA C22.2 No. 61010-1-2012  
EN 60601-1-2:2007  
EN 61326:2013  
FCC CFR 47 Part 15 Part B  
3 Year Limited Warranty

### M9/M11 Accessories/Supplies:

9A259001 Impact Dot Matrix Printer  
9A226001 Pouch Rack  
9A307001 Cool Hand Tool  
002-0396-00 Speed-Clean, 1 (16 oz/47L) bottle  
002-0396-05 Speed-Clean Case – 12 bottles

### M3 Accessories/Supplies

9A401001 Printer  
9A404001 Top Cover Protector  
9A402001 Door Tray  
  
9A586001 Single VistaCool Unit  
9A586002 Double VistaCool Unit

### QuickClean™ Accessories/Supplies

9A612001 QC1 - 2 Beaker Accessory  
9A613001 QC3/QC3R - 4 Beaker Accessory  
9A614001 QC6/QC6R - 6 Beaker Accessory  
9A296001 Midmark General Purpose Cleaner (32 oz)  
9A298001 Midmark Enzymatic Cleaner (32 oz)  
9A297001 Midmark Tartar and Stain Remover (32 oz)  
002-10007-00 QC1 Safety Basket  
002-10008-00 QC3/QC3R Safety Basket  
002-10009-00 QC6/QC6R Safety Basket

VistaCool™ is a trademark of Vista Research Group,  
Ashland, OH

### Midmark is an ISO 13485 and ISO 9001 Certified Company

For more information or a demonstration, contact your  
Midmark dealer or call: 1-800-MIDMARK  
Outside the U.S.A. call: 1-937-526-3662  
or visit our website at midmark.com

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Because we care.