

Protect patients and staff



The safety of every person who visits your facility is at the heart of your infection prevention program, but balancing compliance with operational challenges can be difficult. Instrument processing is a time and laborintensive task—and it starts before you ever touch an instrument.



Balancing patient care with instrument processing challenges

The challenges of nursing staff shortages, budgets

Burnout and the stress of increasing responsibilities are major causes of employee turnover and underadditional training may be required. This can cost contribute to twice as many quality errors.²

this burden.

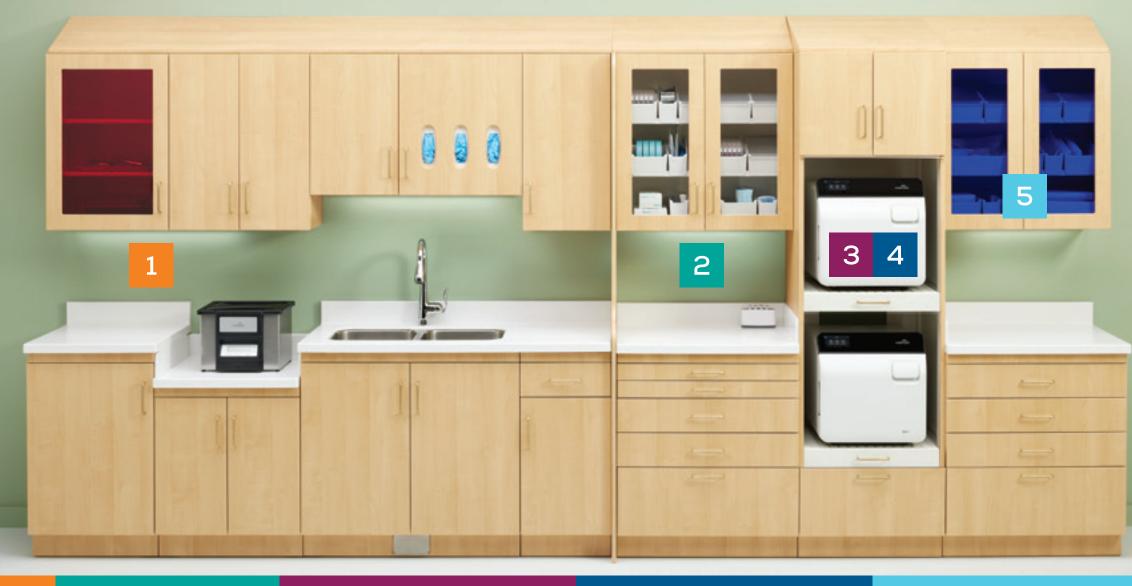


Instrument reprocessing professionals are spending more time than ever reprocessing instrumentation.



Start with Workflow

5-STEP INSTRUMENT PROCESSING WORKFLOW





STEP 1

Receiving + Cleaning

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



STEP 2

Preparation + Packaging

Cleaned, dried instruments and other supplies should be inspected for residual debris and damage, assembled into sets or trays, and wrapped or packaged for sterilization.



STEP 3

Sterilization

The sterilization area should include the sterilizer and related supplies with adequate space for loading and unloading the sterilizer. Follow the instructions for use (IFU) on cleaning and sterilizing for each instrument.



STEP 4

Monitoring/Sterility
Assurance

Mechanical, chemical and biological monitoring should be used to ensure the efficacy of the sterilization process. Results of sterilization need to be recorded.



STEP 5

Storage

The storage area should be adequately sized, closed or covere and located apart from contaminated instruments in an area protected from moisture. Supplies and instruments should not be stored under the sink.

³ See inside back cover for details and sources

the CDC³ and AAMI⁴

The Instrument Processing Center

A CRITICAL COMPONENT OF A 5-STEP INSTRUMENT PROCESSING WORKFLOW

Regardless of the size or shape of your instrument processing area, it's important to choose a facility and equipment design that supports a standardized workflow. A workflow that can be consistently reproduced by staff can make it easier to manage the process and ensure adherence to clinical best practices and compliance guidelines.

For instance, FGI Guidelines published by the Facility Guidelines Institute (a keystone of healthcare planning, design and construction) outline sink and countertop recommendations for handwashing.⁵ Consumer-grade cabinetry manufacturers and construction contractors have limited knowledge of healthcare and may not understand the various requirements. When Midmark design consultation experts work directly with project architects, contractors and interior designers, we can help ensure facility design and room configurations align with equipment, workflow, compliance and intended outcomes.

Design Your Space

From receiving to storage, your instrument processing space needs to work for you. The following layout options are designed to follow a 5-step, standardized instrument processing workflow for better adherence to clinical best practices within the space you have available.

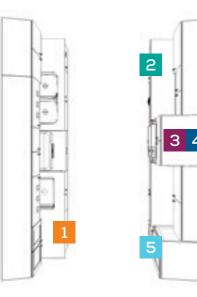


STEP 2
PREPARATION + PACKAGING

STEP 3 STERILIZATION

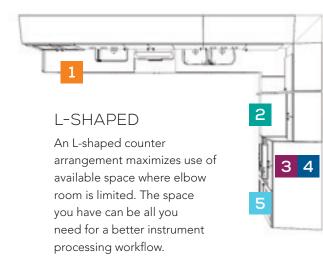
STEP 4
MONITORING/STERILITY
ASSURANCE

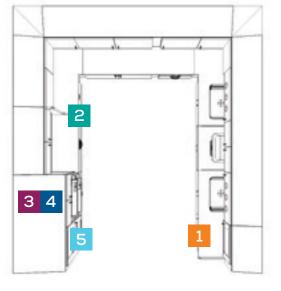
STEP 5



GALLEY

The galley layout consists of workspaces on two opposing walls with a single traffic lane between. This arrangement allows for easy access and efficient workflow, helping your staff keep the process moving using a linear flow while keeping everything within reach.





U-SHAPED

Multiple cleaners and sterilizers demand space—a U-shaped workspace design provides that and more. Ample surface areas allow more staff in the room to multitask and maintain a bustling workflow.



STRAIGHT LINE

Perfectly suited to a 5-step instrument processing flow, a straight-line workspace design is the picture of efficiency. A straight-line workspace design can help maximize efficiency for effective infection prevention.

⁴ See inside back cover for details and sources



Synthesis® Color + Style Options

Synthesis Cabinetry offers different color and styling options to allow you to put your unique signature on a space, whether it is in one office or a multi-facility organization.



Scan to explore color and style options.

HANDLE STYLES



PANEL STYLES



CABINET FINISH



^{*}EPA registration number 85353-2

^{**}Available in Pebble Grey or Pebble Grey PVC Free only

Midmark® Medical-Grade Cabinetry vs. Consumer-Grade Cabinetry

Most generic or local cabinetry is not designed for the demanding clinical environment. Consumer-grade cabinetry can delaminate over time, develop unsealed corners susceptible to bacteria and moisture, and warp from the humidity inherent in a medical facility.

MIDMARK SYNTHESIS® CABINETRY

A steel foundation provides strength and durability.

CABINET FRAME • 18-gauge cold-rolled steel • Modular design







BASE MATERIAL

• Thermofoil over

electrostatic, powder-coat

painted steel (woodgrain

• Electrostatic, powder-coat

painted steel (solid colors)

and metallic colors)

• Integrated adjustable

levelers

- Basic plywood or particle board covered with laminate
- leveling



FINISHES

- PVC thermofoil (woodgrain and metallic colors)
- PVC thermofoil and electrostatic, powder-coat paint (solid colors)

• High-pressure laminate

properly applied

- May use low-grade

substrate material

– Not always

• Less than 2 mm

edgebanding

Varnish, paint, or

left unfinished

TYPES OF ASSEMBLY

 Mechanical fasteners (screws, pop rivets)

reliable strength.

 Tog-L-Loc® sheet metal joining system Mechanical fasteners and Tog-L-Loc provide



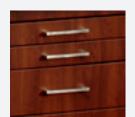
DRAWERS

- Seamless polystyrene Seamless polystyrene
- drawers with rounded corners contain spills and simplify cleaning.



DRAWER SLIDES

- Full-extension ball bearing drawer system
- Steel mounting foundation
- Soft-close feature



HANDLES

- Integrated and insert options
- Brushed nickel options
- Antimicrobial option

Synthesis® antimicrobial pull options support an aseptic environment.

CONSUMER-GRADE CABINETRY*

Millwork options are not specifically designed to endure the clinical environment.



- 1/2" to 5/8" lowdensity particle board or plywood (typically)
- Basic or limited design



PANEL SUBSTRATES

Medium-density

fiberboard

• 3/4" panels

- Plywood
- Wood shims for



- Staple fasteners (frequently)
- The staple fasteners typically used in consumer-grade millwork are unreliable for medical-grade cabinetry.



• Insides often varnished, painted or unfinished

Seams and sharp inner corners can result in difficulty cleaning and a build-up of contaminants.



- Single, undermounted runner (monorail glide—typically used)
- Slides common in kitchens (less durable)



- C-style shape
- Plastic or aluminum

Consumer-grade millwork does not have the antimicrobial options to support an aseptic medical environment.

^{*}Fabrication of local cabinets may vary. However, materials depicted are typical of local millwork cabinetry.



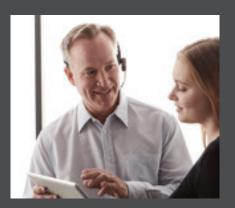
Products + Solutions



QuickClean® Ultrasonic Cleaners



Midmark® Steam Sterilizers



Service + Support



QuickClean® Ultrasonic Cleaners

If an instrument is not clean, it will not become sterile. That's why it's so important to ensure that instruments are thoroughly cleaned prior to sterilization. QuickClean Ultrasonic Cleaners can eliminate hidden residues manual cleaning may miss, providing powerful, effective cleaning with consistent results. And QuickClean uses advanced technology to help create a safer, more efficient work environment by decreasing worker exposure to contaminants and sharps injuries while reducing the time and effort needed for cleaning.



Take the complexity out of cleaning instruments

QuickClean is designed to be easy to use right out of the box, so your staff can be up and running with minimal installation and training time. Advanced Frequency LEAP technology helps ensure instruments are cleaned thoroughly and consistently throughout the entire bath.









- O1 Choose the option that best fits your space and workflow needs.

 QuickClean comes in three tabletop sizes (1.2-, 3.3- and 6.6-gallon).
- O2 QuickClean is available in two recessed options (3.3- or 6.6-gallon).
- Use glass beakers to clean very small items. Even though the items are inside the beaker, ultrasonic waves can still reach and clean them. Choose from a 2-beaker, 4-beaker or 6-beaker kit.
- 04 Restock your required cleaning solutions with Midmark General Purpose Cleaner, Tartar and Stain Remover, and Enzymatic Cleaner; each available in 32 oz bottles.

Midmark® Steam Sterilizers

WHEN YOU INVEST IN MIDMARK STERILIZERS, YOU CAN BE CONFIDENT YOU ARE GETTING THE BEST-OUR STERILIZERS ARE THE MARKET LEADERS YEAR AFTER YEAR.

Midmark Steam Sterilizers are designed with intuitive instructions that can simplify compliance, cycle operation, and performing and recording device care. This can help to **reduce transcription and documentation errors which could account for 56% of sterilization errors.** Automated mechanical monitoring and chemical indicator reporting can save time, helping simplify staff training and giving them confidence to process instruments.



01 Navigate cycle setup and other processes in your preferred language—English, French or Spanish—with a clear, fingerprint-resistant 5-inch touchscreen you can utilize while wearing gloves. Choose a style—light or dark mode.



02 Determine cycle status—cycle in progress, cycle complete and cycle error—from a distance with a progressing color-coded LED light bar, large cycle-countdown clock and audible cues.





- 01 Midmark M11® Steam Sterilizer
 The 11" x 18" chamber makes this one of the largest of any standard countertop sterilizer on the market.
- **02** Midmark M9® Steam Sterilizer
 Pack all the reliable sterilizing power you need into a compact unit perfect for areas with limited space.



PROTECT YOUR INVESTMENT

Register your warranty today to receive prompt support when you need it and opt in to receive future notifications for available software updates.

FEATURES

Streamlined Compliance Recordkeeping:

Stay audit-ready with device reminders and notifications, user authentication, unlimited storage of routine care events for the life of the sterilizer, and automated cycle recordkeeping.

Durability: Midmark sterilizers have been designed for durability, including an increased device life of 25,000 cycles thanks to a completely reengineered chamber. This can reduce the frequency of required maintenance by users and certified technicians by more than half.

⁵ See inside back cover for details and sources

STANDARD

CYCLE PARAMETERS

Cycle Type	Cycle Parameters			Drying	Items to Be Sterilized (Always follow the instrument	M9	M11
	Temperature Minimum	Time	Pressure Reference ²	Time ³	manufacturer's recommendations for sterilization.)	Maximum Capacity⁵	Maximum Capacity⁵
Wrapped	270°F (132°C)	4 min	27.1 psi (186 kPa)	30 min	 Pouched or wrapped items manufacturers recommend for exposure at 270°F (132°C) for 4 minutes. Wrapped cassettes 	8 lb (3,629 g) or 8 handpieces (2 per tray) with other instruments 8 lb (3,629 g) total	9 lb (4,082 g) or 8 handpieces (2 per tray) with other instruments 9 lb (4,082 g) total
Wrapped 2	275°F (135°C)	3 min	31 psi (214 kPa)	30 min	 Pouched or wrapped items manufacturers recommend for exposure at 275°F (135°C) for 3 minutes Wrapped cassettes 	8 lb (3,629 g) or 8 handpieces (2 per tray) with other instruments 8 lb (3,629 g) total	9 lb (4,082 g) or 8 handpieces (2 per tray) with other instruments 9 lb (4,082 g) total
Delicate	250°F (121°C)	30 min	15 psi (104 kPa)	30 min	 Textiles and surgical packs wrapped for sterilization⁴ Items, except liquids, manufacturers recommend for exposure at 250°F (121°C) for 30 minutes 	8 lb (3,629 g) or 1.3 lb (590 g) textile load	9 lb (4,082 g) or 2 packs each at 1.3 lb (590 g) textile load
Unwrapped*	270°F (132°C)	3 min	27.1 psi (186 kPa)	30 min	 Instruments loose on a tray Open glass or metal canisters Tubing not used in surgical procedures (maximum length 40 in and minimum inside diameter 0.187 in) Loose items manufacturers recommend for exposure at 270°F (132°C) for 3 minutes 	8 lb (3,629 g)	9 lb (4,082 g)
5 Custom Cycles**	250°F (121°C) to 275°F (135°C)	3 min to 45 min	15 psi (104 kPa) to 31 psi (214 kPa)	0 min to 60 min	Instruments with manufacturer instructions outside of Midmark Standard Cycle Parameters Special applications requiring different programmed cycles	8 lb (3,629 g)	9 lb (4,082 g)

- 1. Standard cycle parameters are taken from the Midmark Steam Sterilizers Setup and User Guide (003-10534-99).
- 2. The pressures shown in this table are at sea level and are for reference only. These are the ideal pressure of saturated steam at the sterilization temperature. The pressures on the sterilizer display may be higher.
- 3. Dry time can be changed from 5 to 60 minutes. (IUSS dry time can be changed from 1 to 5 minutes.) Refer to Standard Cycle Operation in the User Guide.
- 4. Allow a minimum of 1/4 in (6.4 mm) space between each pack and from the chamber wall.
- 5. The default dry time may need increased due to variations in load configuration, wrapping materials and the environment to completely dry the chamber contents at these capacities.
- ${}^{\star}\mathsf{The}$ sterility of unwrapped items is compromised on exposure to a non-sterile environment.
- **CAUTION: These cycles are not FDA-cleared, and validation of the sterility of items processed using a custom cycle is the responsibility of the user. Sterilization temperature, drying time and venting procedure can be adjusted or changed to follow instrument manufacturers' instructions when outside of Midmark Standard Cycle Parameters. Refer to Custom Cycle Operation in the User Guide for how to create these cycles.

Note: Some features can be disabled in Settings, such as the ability to reduce dry time, run an IUSS cycle or run a Custom Cycle. 115 VAC models may be operated in a voltage range of 103-127 VAC. 230 VAC models may be operated in a voltage range of 207-253 VAC. Overall cycle time will vary based on conditions such as voltage, starting temperature and altitude. At the lower end of the voltage range, heat-up times will increase, and it may be necessary to run a Pre-Heat cycle prior to the sterilization cycle.

ACCESSORIES THAT HELP ADD VERSATILITY + FUNCTION



Cool Hand Tool This tool connects to trays and cassettes to help reduce the risk of team injury while loading or unloading the sterilizer.



USB Kit Download cycle records including time, temperature and pressure. Includes USB drive, USB cable and PC board (technician installation required).

OPTIONAL WATER MANAGEMENT SYSTEMS



Autofill The optional autofill accessory (left) can be paired with your choice of water filtration system (right) to limit user intervention and use fresh water with every cycle.

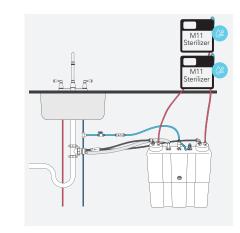


Water filtration system not sold by Midmark.

Auto-Drain

The optional VistaCoolTM Direct-to-Drain System for Autoclave Wastewater reduces the temperature of sterilizer wastewater before sending it directly and safely to the drain. This non-electric, self-monitoring and self-regulating system frees staff to spend more time at the point of care and less time maintaining equipment.





0 What You Get With Midmark

Services + Support



TECHNICAL SPECIFICATIONS

View technical specifications for Midmark M9® and M11® Steam Sterilizers.



MIDMARK LIVE DESIGN

Our in-house design experts are ready to help you every step of the way.



MIDMARK DELIVERY SERVICES

Coordination, delivery and setup right on time, every time.



CLINICAL EDUCATION

Trust in our expert educators to assist you in implementing your Midmark devices.



REPAIR + SERVICE

Explore available support and service plans so you can obtain the level of coverage you need to keep your medical equipment and devices operational. This includes periodic maintenance and periodic inspection plans, as well as extended warranty plans.

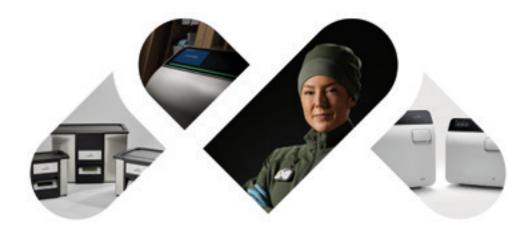


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SOURCES

- $1\ https://pure-processing.com/blog/time-how-instrument-reprocessing-professionals-are-fighting-the-clock$
- 2 https://pubmed.ncbi.nlm.nih.gov/23516758
- 3 https://www.cdc.gov/infectioncontrol/quidelines/disinfection/sterilization/sterilizing-practices.html
- 4 ANSI/AAMI ST79:2017, Comprehensive guide to steam sterilization and sterility assurance in health care facilitie
- 5 https://fgiguidelines.or
- 6 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC625292



Designing better care®



CARB 93120.2 Phase 2 Compliant and TSCA Title VI Compliant

The color examples shown are the best representation of the original material. Actual color may vary slightly. We strongly recommend that you contact Midmark Customer Experience at 1.800.MIDMARK to request a sample before placing your order.

Midmark is an ISO 13485 and ISO 9001 Certified Company. Certain products are not included. See the complete list at: midmark.com/ISO

For more information, contact your authorized Midmark distributor or call: 1.800.MIDMARK Outside the USA call: 1.937.526.3662 or visit our website: midmark.com

VistaCool™ Direct-to-Drain System for Autoclave Wastewater is manufactured by Crosstex International, Inc., for distribution by Midmark Corporation, Versailles, OH.

VistaCool™ is a trademark of Crosstex International, Inc., a Cantel Medical Company, Hauppauge, NY.

Tog-L-Loc is a registered trademark of BTM Corporation, Bloomfield Hills, MI.

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