



ANIMAL HEALTH

Instrument Processing



You make a difference.



You improve your patients' lives every day, giving them **a chance to spend more time with the people they love—and who love them.**



We know you feel the strain.

**Staff shortages. Managing costs.
Over-sized responsibilities.**

It's difficult to deliver an exceptional care experience while balancing an already full workload. Preventing the spread of infectious diseases and minimizing cross-contamination between patients is another essential responsibility—**one that can further strain your team.**



Your patients count on you.

Help keep them safe.

Create a safer care environment with an effective instrument processing standard of care and workflow that follows proven standards. [Let us show you how.](#)



Start with Workflow

5-STEP INSTRUMENT PROCESSING WORKFLOW

Follow a dirty-to-clean instrument processing workflow as recommended by the CDC¹ to help contain contamination and maximize the efficiency of your instrument cleaning and sterilizing process.



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

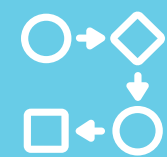
Mechanical, chemical and biological monitoring should be used to ensure the efficacy of the sterilization process. Results of sterilization need to be recorded.



STEP 5
Storage

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

The Instrument Processing Center



A CRITICAL COMPONENT OF A 5-STEP INSTRUMENT PROCESSING WORKFLOW

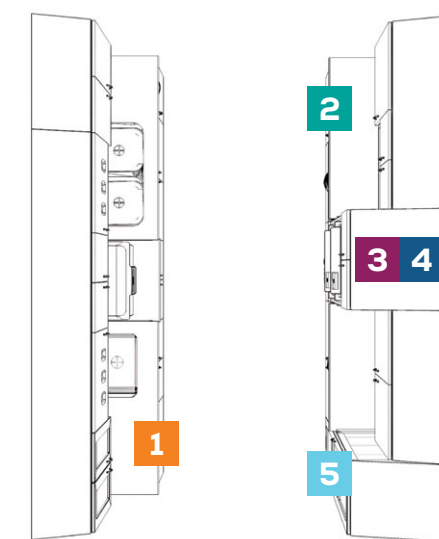
Whether you are looking to build a new hospital or renovate your current space, we can help you create a standardized workflow to optimize your instrument processing area. A workflow that can be consistently reproduced by staff makes it easier to manage the process and ensure that clinical best practices are followed.

When our Midmark design experts work directly with project architects, contractors and interior designers, we can help ensure facility design and room configurations align with equipment, workflow and intended outcomes.

 Explore Midmark Instrument Processing Solutions

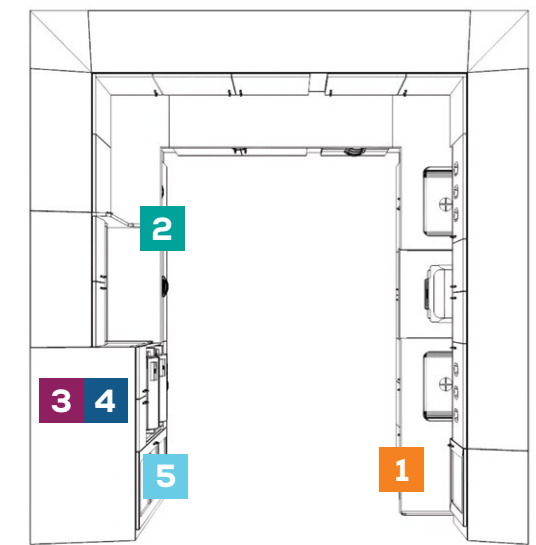
DESIGN YOUR SPACE

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.



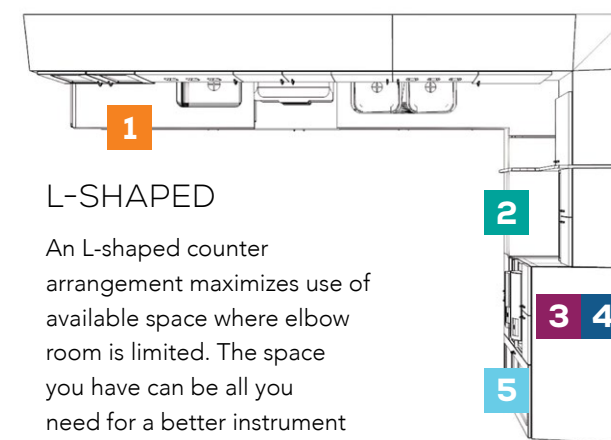
GALLEY

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.



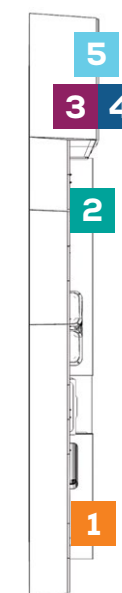
U-SHAPED

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.



L-SHAPED

An L-shaped counter arrangement maximizes use of available space where elbow room is limited. The space you have can be all you need for a better instrument processing 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.

Choose The Proper Equipment

QUICKCLEAN® ULTRASONIC CLEANERS

Cleaning is the critical first step in the 5-step instrument processing workflow and is necessary to remove contaminants before sterilization. If an instrument is not clean, it will not become sterile. The QuickClean Ultrasonic Cleaner can eliminate microscopic and hard-to-see debris manual cleaning may miss while decreasing exposure to contaminants and helping protect your team from potential sharps injuries.



TAKE THE COMPLEXITY OUT OF CLEANING INSTRUMENTS

QuickClean is designed to be easy to use, 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.



01 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).

02 QuickClean is available in two recessed options (3.3- or 6.6-gallon).

03 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.

Improve workflow and get your team back to the work they love with intuitive sterilizer technology. Midmark Steam Sterilizers are designed for durability, workflow and efficiency.



01 Durable Design

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.

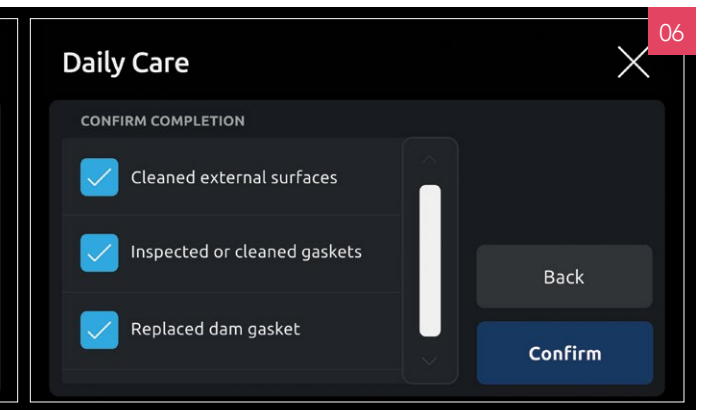
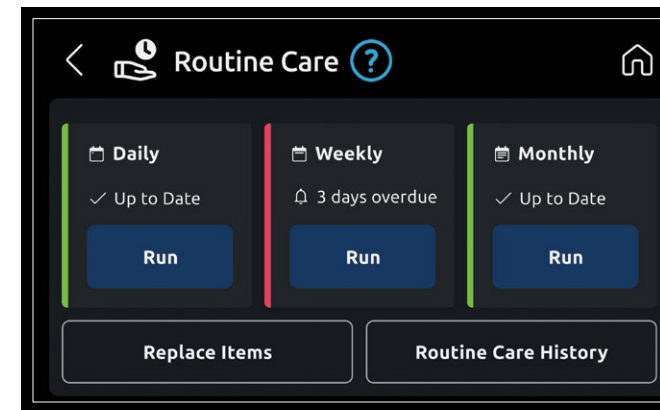
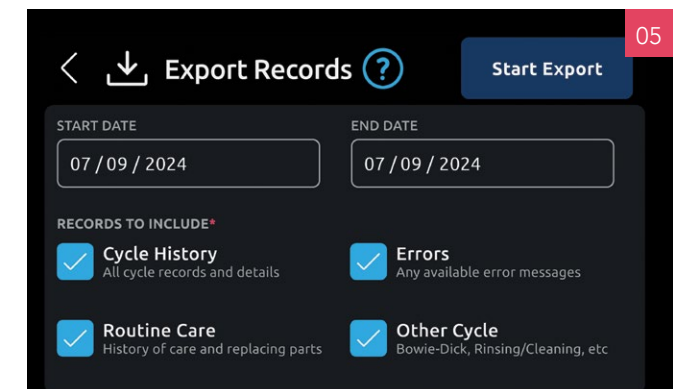
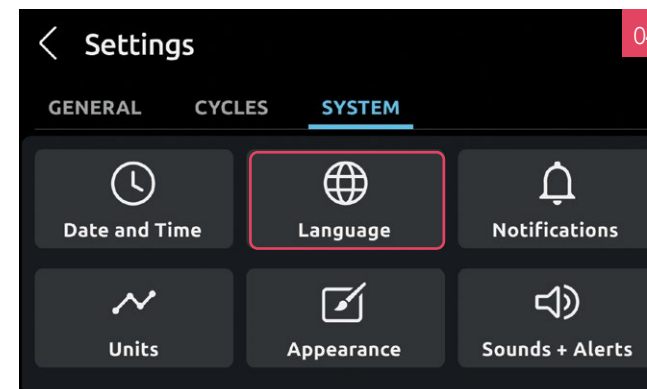
02 Different Sizes to Fit Your Needs

A. Midmark M11 Steam Sterilizer:

The 11" x 18" chamber makes it one of the largest standard countertop sterilizers on the market.

B. Midmark M9 Steam Sterilizer:

Pack all the reliable sterilizing power you need into a compact unit perfect for areas with limited space.



03 Intuitive User Interface

- A. Navigate cycle setup and other user processes with a clear, fingerprint-resistant 5-inch touchscreen you can utilize while wearing gloves. Choose a style – light or dark mode.
- B. Determine cycle status from a distance with a progressing color-coded LED light bar, large cycle-countdown clock and audible cues.

04 Languages

Operate in your preferred language with display options of English, French or Spanish.*

*French and Spanish available with a future software update

05 Streamline Recordkeeping

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

06 Streamline Workflow

On-screen guidance and multi-notifications streamline workflow compared to similar sterilizers. Logical step-by-step instructions simplify performing and recording device care activities.

07 ROBUST CYCLE OPTIONS

Preset and custom cycle options help simplify clinical workflow to accommodate unique instrument instructions for use (IFUs).



WRAPPED
270°F, 4 MIN



WRAPPED
275°F, 3 MIN



DELICATE
250°F, 30 MIN



UNWRAPPED
270°F, 3 MIN



5 CUSTOM CYCLES*
250°F-275°F, 3 MIN-45 MIN

*These cycles are not FDA-cleared, and validation of the sterility of items processed using a custom cycle is the responsibility of the user.



ACCESSORIES



9A307001 Cool Hand Tool



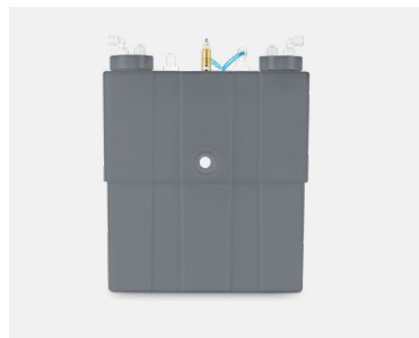
91703001 Vertical Cassette Rack, M11-05X



002-0396-05 SpeedClean (12 - 16 oz. bottles)



9A694001 Autofill 115V



9A586001 VistaCool™
Direct-to-Drain System



9A698001 USB Kit

STANDARD CYCLE PARAMETERS

| Cycle Type | Cycle Parameters ¹ | | | Drying Time ³ | Items to Be Sterilized (Always follow the instrument manufacturer's recommendations for sterilization.) | M9 Maximum Capacity ⁵ | M11 Maximum Capacity ⁵ |
|-----------------------|--------------------------------|-----------------|--------------------------------------|--------------------------|---|---|---|
| | Temperature Minimum | Time | Pressure Reference ² | | | | |
| WRAPPED | 270°F (132°C) | 4 min | 27.1 psi (186 kPa) | 30 min | <ul style="list-style-type: none"> Pouched or wrapped items manufacturers recommend for exposure at 270°F (132°C) for 4 minutes. Wrapped cassettes Dental handpieces (wrapped or not wrapped) | 8 lb (3,629 g) or 8 handpieces (2 per tray) with other instruments 8.0 lb (3,629 g) total | 9 lb (4,082 g) or 8 handpieces (2 per tray) with other instruments 9.0 lb (4,082 g) total |
| WRAPPED | 275°F (135°C) | 3 min | 31 psi (214 kPa) | 30 min | <ul style="list-style-type: none"> Pouched or wrapped items manufacturers recommend for exposure at 275°F (135°C) for 3 minutes Wrapped cassettes Dental handpieces (wrapped or not wrapped) | 8 lb (3,629 g) or 8 handpieces (2 per tray) with other instruments 8.0 lb (3,629 g) total | 9 lb (4,082 g) or 8 handpieces (2 per tray) with other instruments 9.0 lb (4,082 g) total |
| DELICATE | 250°F (121°C) | 30 min | 15 psi (104 kPa) | 30 min | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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.

*The sterility of unwrapped items is compromised on exposure to a non-sterile environment.
 **CAUTION: These cycles are not FDA-cleared, and validation 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.

Get the Support You Need

Designing a better care experience starts with a better customer experience. At Midmark, our mission is to address customer needs and fulfill our commitments.



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.



TECHNICAL SPECIFICATIONS

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



MIDMARK LIVE DESIGN

Our in-house design team is ready to help you every step of the way.



IN-CLINIC TRAINING

Trust our credentialed experts to deliver comprehensive training in your clinic, using your equipment, with your staff.



REPAIR + SERVICE

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



MIDMARK DELIVERY SERVICES

Professional management of Midmark equipment shipping, delivery, staging and installation for maximum project success.



Create a safer practice through safer instrument processing.

Combining proper workflow, equipment and support will help simplify your instrument processing and drive an efficient standard of care.

SOURCES

1 <https://www.cdc.gov/infectioncontrol/guidelines/disinfection/sterilization/sterilizing-practices.html>



Designing better care.®



CARB 93120.2 Phase 2 Compliant and TSCA Title VI Compliant

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

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