



# M9® and M11® Steam Sterilizer

## For Models:

M9 (-050/-053)

M11 (-050/-051/-053)



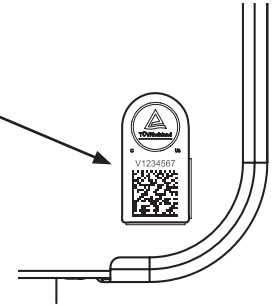
Follow the QR code to register your sterilizer.



Follow the QR code to the User Guide.



Serial Number  
UDI Data Matrix  
(inside front door)



Français: Référez-vous à [midmark.com](http://midmark.com)  
Español: Refiera a [midmark.com](http://midmark.com)

| Cycle Type | Cycle Parameters    |         |                                 | Drying Time <sup>2</sup> | Items to be Sterilized<br>(Always follow the item manufacturer's recommendations for sterilization.)  | M9<br>Maximum Capacity <sup>4</sup>   | M11<br>Maximum Capacity <sup>4</sup>  |
|------------|---------------------|---------|---------------------------------|--------------------------|---|---|---|
|            | Temperature Minimum | Time    | Pressure <sup>1</sup> Reference |                          |   |   |   |
| Wrapped    | 132°C (270°F)       | 4 min.  | 186 kPa (27.1 psi)              | 30 min.                  | <ul style="list-style-type: none"> <li>Pouched or wrapped items manufacturers recommend for exposure at 132°C (270°F) for 4 minutes.</li> <li>Wrapped cassettes.</li> <li>Dental Handpieces (wrapped or unwrapped)</li> </ul>   | 3,629 grams (8.0 lb) or 8 handpieces (2 per tray) with other instruments 3,629 grams (8.0 lb) total | 4,082 grams (9.0 lb) or 8 handpieces (2 per tray) with other instruments 4,082 grams (9.0 lb) total |
| Wrapped    | 135°C (275°F)       | 3 min.  | 214 kPa (31 psi)                | 30 min.                  | <ul style="list-style-type: none"> <li>Pouched or wrapped items manufacturers recommend for exposure at 135°C (275°F) for 3 minutes.</li> <li>Wrapped cassettes.</li> <li>Dental Handpieces (wrapped or unwrapped)</li> </ul>   | 3,629 grams (8.0 lb) or 8 handpieces (2 per tray) with other instruments 3,629 grams (8.0 lb) total | 4,082 grams (9.0 lb) or 8 handpieces (2 per tray) with other instruments 4,082 grams (9.0 lb) total |
| Delicate   | 121°C (250°F)       | 30 min. | 104 kPa (15 psi)                | 30 min.                  | <ul style="list-style-type: none"> <li>Textiles and surgical packs wrapped for sterilization.<sup>3</sup></li> <li>Items, except liquids, manufacturers recommend for exposure at 121°C (250°F) for 30 minutes.</li> </ul>  | 3,629 grams (8.0 lb) or 590 grams (1.3 lb) textile load   | 4,082 grams (9.0 lb) or 2 packs each @ 590 grams (1.3 lb) textile load                              |
| Unwrapped  | 132°C (270°F)       | 3 min.  | 186 kPa (27.1 psi)              | 30 min.                  | <ul style="list-style-type: none"> <li>Instruments loose on a tray.</li> <li>Open glass or metal canisters.</li> <li>Tubing not used in surgical procedures. (Max. length - 40 in and Min. inside diameter - .187 in)</li> <li>Loose items manufacturers recommend for exposure at 132°C (270°F) for 3 minutes.</li> </ul> <p>Note: The sterility of unwrapped items is compromised on exposure to a non-sterile environment.</p> | 3,629 grams (8.0 lb)  | 4,082 grams (9.0 lb)  |

1. 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.
2. 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.
3. Allow a minimum of 6.4 mm (1/4 in) space between each pack and from the chamber wall.
4. 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.

## Routine Care

### Daily Routine Care:

- Clean external surfaces with soap and water; disinfect using a quaternary disinfectant.
- Inspect and clean gaskets with a damp cloth or Speed-Clean.
- Optionally, drain and refill reservoir with distilled water.

### Weekly Routine Care:

- Complete Daily Care to clean external surfaces and gaskets.
- Weekly Care only necessary when monthly care is not performed.
- Drain and refill the water reservoir.
- Remove trays, tray rack and tray plate. Clean using Speed-Clean. Rinse with distilled water.
- Clean inside of chamber using Speed-Clean and rinse with distilled water.
- Reinsert tray plate, tray rack and trays.

### Monthly Routine Care:

- Complete Daily Care to clean external surfaces and gaskets.
- Run a cleaning cycle using one ounce of Speed-Clean.
- Run a rinsing cycle using distilled water.
- Check pressure relief valve (only appears every 6 months).
- Wipe inside of chamber and trays.
- Clean filters using Speed-Clean and distilled water.



### WARNING

To prevent burns, allow unit to cool before cleaning gaskets and internal surfaces or removing trays, tray rack, tray plate and filters.



### Equipment Alert

Use only distilled water, or water that meets the water purity specified in the User Guide.



### Equipment Alert

When using Speed-Clean to clean surfaces dilute with 20 parts distilled water to one part Speed-Clean.

For complete Routine Care refer to the User Interface or User Guide.

# Guidelines for Loading

The M9® and M11® are capable of sterilizing pouched or wrapped items to preserve sterility after processing.

- Pouches, wraps and their included instruments should not touch the chamber wall. Clearance allows proper steam circulation and avoids potential instrument damage.
- For proper steam circulation and drying the preferred orientation of pouches is resting on their edge, best accomplished using the Midmark Pouch Rack supplied with the M9 and M11 sterilizers. If more than two pouch racks are used in a single load, additional dry time may be required.
- Pouches loaded directly on the trays should not be layered or overlapped and will dry best if loaded with paper side down.

**For full instructions on proper loading, please reference the complete User Guide.**



M9 Mixed Load with Small Cassette + Pouches.



M9 Pouches Mixed



M9 Pouches with Pouch Rack



M11 Mixed Load with Cassette + Pouches



M11 Pouches Mixed



M11 Pouches with Pouch Rack

## Note

*Additional accessories and service parts are available upon request.*



## WARNING

***Do not overload the chamber! Adequate space is required around items in trays for steam circulation and drying. Failure to allow adequate space will compromise sterilization and drying. Items and packaging should be completely dry when removed from the sterilizer to minimize the potential for recontamination.***



## Equipment Alert

***Do not place items directly on the tray rack or tray plate. Always use a tray or cassette rack - otherwise, serious instrument or equipment damage may occur.***

## Calling for Service

If service is required, contact Midmark directly.

Medical US 844.856.1230 / Canada 937.526.8585

Dental US 844.856.1231 / Canada 937.526.8585

Animal Health US 844.856.1232 / Canada 937.526.8585

Monday - Thursday 8:00 AM to 6:00 PM

Friday 8:00 AM to 5:00 PM

[midmark.com](http://midmark.com)

## Note

***Model and Serial Number information is required when calling for service. Record any displayed code(s) and relay this information to the service technician.***