






# Midmark M9® + M11® Steam Sterilizers

Midmark® Steam Sterilizers are designed for intuitive operation and compliance with on-device tutorials, touchscreen prompts, four preset cycles, five custom cycle options and automated cycle documentation. See cycle progress at a glance with a progressing color-coded LED light bar and stay audit ready with sterilization cycle history for the life of the device.



## STANDARD CYCLE PARAMETERS<sup>1</sup>

Cycle Type	Cycle Parameters			Drying Time <sup>3</sup>	Items to Be Sterilized (Always follow the instrument manufacturer's recommendations for sterilization.)	M9 Maximum Capacity <sup>5</sup>	M11 Maximum Capacity <sup>5</sup>
	Temperature Minimum	Time	Pressure Reference <sup>2</sup>				
<b>Wrapped</b> 	270°F (132°C)	4 min	27.1 psi (186 kPa)	30 min	<ul style="list-style-type: none"> <li>Pouched or wrapped items manufacturers recommend for exposure at 270°F (132°C) for 4 minutes.</li> <li>Wrapped cassettes</li> <li>Dental handpieces (wrapped or not wrapped)</li> </ul>	8.0 lb (3,629 g) or 8 handpieces (2 per tray) with other instruments 8.0 lb (3,629 g) total	9.0 lb (4,082 g) or 8 handpieces (2 per tray) with other instruments 9.0 lb (4,082 g) total
<b>Wrapped</b> 	275°F (135°C)	3 min	31 psi (214 kPa)	30 min	<ul style="list-style-type: none"> <li>Pouched or wrapped items manufacturers recommend for exposure at 275°F (135°C) for 3 minutes</li> <li>Wrapped cassettes</li> <li>Dental handpieces (wrapped or not wrapped)</li> </ul>	8.0 lb (3,629 g) or 8 handpieces (2 per tray) with other instruments 8.0 lb (3,629 g) total	9.0 lb (4,082 g) or 8 handpieces (2 per tray) with other instruments 9.0 lb (4,082 g) total
<b>Delicate</b> 	250°F (121°C)	30 min	15 psi (104 kPa)	30 min	<ul style="list-style-type: none"> <li>Textiles and surgical packs wrapped for sterilization<sup>4</sup></li> <li>Items, except liquids, manufacturers recommend for exposure at 250°F (121°C) for 30 minutes</li> </ul>	8.0 lb (3,629 g) or 1.3 lb (590 g) textile load	9.0 lb (4,082 g) or 2 packs each at 1.3 lb (590 g) textile load
<b>Unwrapped*</b> 	270°F (132°C)	3 min	27.1 psi (186 kPa)	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 (maximum length 40 in and minimum inside diameter 0.187 in)</li> <li>Loose items manufacturers recommend for exposure at 270°F (132°C) for 3 minutes</li> </ul>	8.0 lb (3,629 g)	9.0 lb (4,082 g)
<b>5 Custom Cycles**</b> 	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"> <li>Instruments with manufacturer instructions outside of Midmark Standard Cycle Parameters</li> <li>Special applications requiring different programmed cycles</li> </ul>	8.0 lb (3,629 g)	9.0 lb (4,082 g)

- Standard cycle parameters are taken from the Midmark Steam Sterilizers Setup and User Guide (003-10534-99).
- 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.
- 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.
- Allow a minimum of 1/4 in (6.4 mm) space between each pack and from the chamber wall.
- 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.

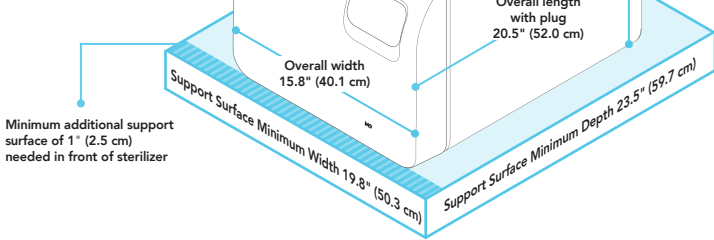
\*\*CAUTION: These cycles are not FDA-cleared, and validation of the sterility of items processed using a custom cycle is the responsibility of the user.

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.

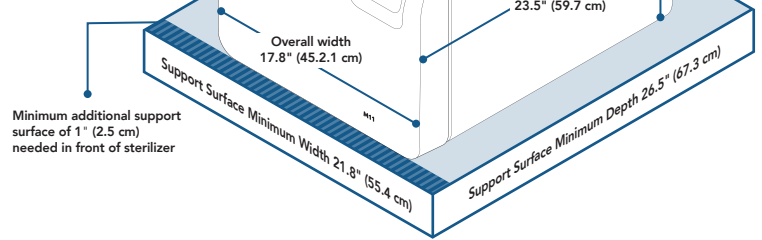
## MIDMARK M9® STEAM STERILIZER

- Minimum additional support surface of 2" (5.1 cm) needed on each side and rear of sterilizer
- Minimum clearance of 5" (12.7 cm) needed above sterilizer



## MIDMARK M11® STEAM STERILIZER

- Minimum additional support surface of 2" (5.1 cm) needed on each side and rear of sterilizer
- Minimum clearance of 5" (12.7 cm) needed above sterilizer



### PHYSICAL DIMENSIONS:

Overall Length with Plug	20.5 in (52.0 cm)
Overall Width	15.8 in (40.1 cm)
Overall Height	16.6 in (42.2 cm)
Support Surface Requirements	19.8 in x 23.5 in (50.3 cm x 59.7 cm)
Chamber	9 in (diameter) x 15 in (depth) (22.9 cm x 38.1 cm)
Standard Tray, Large (Usable tray area)	7 5/16 in x 12 in x 7/8 in (18.6 cm x 30.5 cm x 2.2 cm)
Standard Tray, Small (Usable tray area)	5 5/8 in x 12 in x 7/8 in (14.3 cm x 30.5 cm x 2.2 cm)

### WEIGHTS:

Weight with Empty Reservoir	82 lb (37.2 kg)
Weight with Shipping Carton	92 lb (41.7 kg)

**Electrical Rating Note:** A separate (dedicated) circuit is recommended for this sterilizer. The sterilizer should not be connected to an electrical circuit with other appliances or equipment unless that circuit is rated for the additional load.

115 V models	115 VAC, 12 amps, 50/60 Hz
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### FUSE RATINGS:

115 VAC	F1—15 amps, 250 V, Fast Acting, 0.250 in Dia x 1.250 in L (6.35 mm x 31.75 mm)
	F2—15 amps, 250 V, Fast Acting, 0.250 in Dia x 1.250 in L (6.35 mm x 31.75 mm)
	F3—2.5 amps, 250 V, Time Delay/Slow-Blow, 0.205 in Dia x 0.787 in L (5.20 mm x 20.00 mm)
Safety Valve Setting	43 psi (296 kPa)
Heat Emission	5275 kJ (5000 BTU) / hr during operation
Water Reservoir Capacity	4.1 liters (1.1 gallons) to Full mark Usable volume is 2.3 liters (0.6 gallons)
Pollution Degree	II (IEC 60664-1:2020)
Overvoltage Category	II (IEC 60664-1:2020)

**MIDMARK M9 + M11 STERILIZER ACCESSORIES:**  
 USB Kit 9A698001, Auto-fill 120V 9A694001, Auto-fill 230V 9A694002,  
 Vertical Rack 9A703001 and VistaCool™ 9A586002

### PHYSICAL DIMENSIONS:

Overall Length with Plug	23.5 in (59.7 cm)
Overall Width	17.8 in (45.2 cm)
Overall Height	18.6 in (47.2 cm)
Support Surface Requirements	21.8 in x 26.5 in (55.4 cm x 67.3 cm)
Chamber	11 in (diameter) x 18 in (depth) (27.9 cm x 45.7 cm)
Standard Tray, Large (Usable tray area)	9-1/8 in x 15-1/4 in x 7/8 in (23 cm x 38.7 cm x 2.2 cm)
Standard Tray, Small (Usable tray area)	6-3/4 in x 15-1/4 in x 7/8 in (17 cm x 38.7 cm x 2.2 cm)

### WEIGHTS:

Weight with Empty Reservoir	99 lb (44.9 kg)
Weight with Shipping Carton	131 lb (59.4 kg)

**Electrical Rating Note:** A separate (dedicated) circuit is recommended for this sterilizer. The sterilizer should not be connected to an electrical circuit with other appliances or equipment unless that circuit is rated for the additional load.

115 V models	115 VAC, 12 amps, 50/60 Hz
230 V models	230 VAC, 6.4 amps, 50/60 Hz

### FUSE RATINGS:

115 VAC	F1—15 amps, 250 V, Fast Acting, 0.250 in Dia x 1.250 in L (6.35 mm x 31.75 mm)
	F2—15 amps, 250 V, Fast Acting, 0.250 in Dia x 1.250 in L (6.35 mm x 31.75 mm)
	F3—2.5 amps, 250 V, Time Delay/Slow-Blow, 0.205 in Dia x 0.787 in L (5.20 mm x 20.00 mm)
230 VAC	F1—8 amps, 250 V, Fast Acting, 0.205 in Dia x 0.787 in L (5.20 mm x 20.00 mm)
	F2—8 amps, 250 V, Fast Acting, 0.205 in Dia x 0.787 in L (5.20 mm x 20.00 mm)
	F3—2.5 amps, 250 V, Time Delay/Slow-Blow, 0.250 in Dia x 1.250 in L (6.35 mm x 31.75 mm)
Safety Valve Setting	43 psi (296 kPa)
Heat Emission	5275 kJ (5000 BTU) / hr during operation
Water Reservoir Capacity	5.3 liters (1.4 gallons) to Full mark Usable volume is 3.0 liters (0.8 gallons)
Pollution Degree	II (IEC 60664-1:2020)
Overvoltage Category	II (IEC 60664-1:2020)