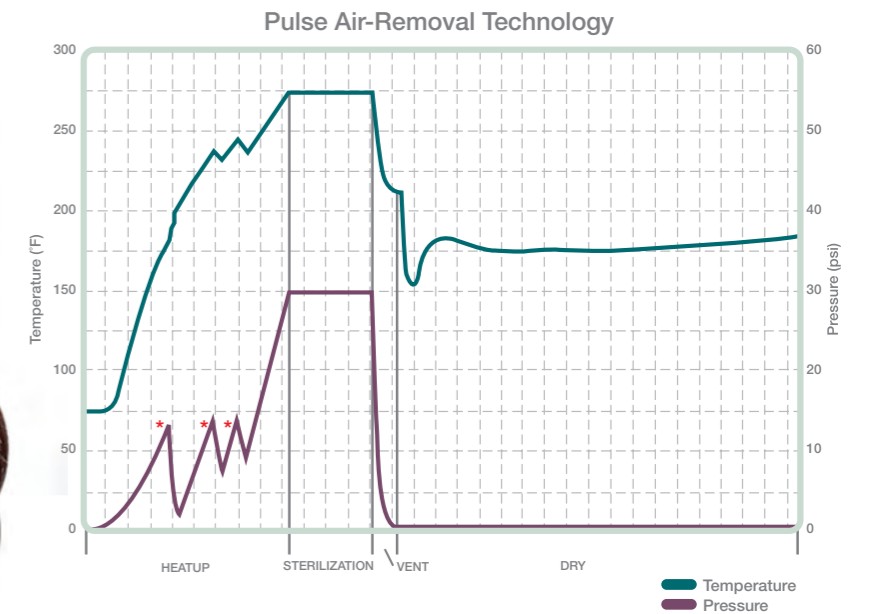# M11 & M9 Sterilizers

**Ritter M11 and M9 UltraClave® Automatic Sterilizers**

Today more than ever, you need products that are reliable and simple to use. Ritter sterilizers couldn't be easier and are time tested for reliability. With any Ritter sterilizer, simply load it, set it and forget it. Select the cycle and the time is set for you. Press "Start" and the sterilizer will fill with the correct amount of water. Once the sterilization process is complete, the door opens automatically and quietly to dissipate the steam, giving you a fast drying time for your instruments. Less complexity means better reliability and a cost effective solution. It's real convenience.

The SteamFlush Pressure Pulse Air Removal System is so efficient that it can pass the air removal tests required on more complex vacuum steam sterilizer systems, ensuring good steam penetration for proper sterilization. The M11 is the largest of the Ritter automatic sterilizers – its unique 11" x 18" chamber gives it the distinction of the largest sterilizing capacity of any standard countertop sterilizer on the market, making it perfect for larger packs and instruments. An optional printer accessory, available on both the M11 and M9, provides records of the cycle, cycle time, temperature and pressure.

*Both the Ritter M11 and M9 sterilizers provide easy access front fill and drain, and easy-to-understand controls.*

## Pulse Air-Removal Technology



*Three air removal purges.
New electronic bellows purge air from chamber three times prior to sterilization for efficient air removal.

| Symbol | Cycle Type | Hot Cycle Times* | | Cold Cycle Times* | | Sterilization Time | | Sterilization Temp. & Pressure | |
|---|---|---|---|---|---|---|---|---|---|
| | | M9 | M11 | M9 | M11 | M9 | M11 | M9 | M11 |
| | Unwrapped | 14 min. | 18 min. | 19 min. | 28 min. | 3 min. | 3 min. | 132˚ C 270˚ F 27.1 psi (186 kPa) | 132˚ C 270˚ F 27.1 psi (186 kPa) |
| | Pouches | 17 min. | 22 min. | 22 min. | 32 min. | 5 min. | 5 min. | 132˚ C 270˚ F 27.1 psi (186 kPa) | 132˚ C 270˚ F 27.1 psi (186 kPa) |
| | Packs | 40 min. | 44 min. | 46 min. | 56 min. | 30 min. | 30 min. | 121˚ C 250˚ F 15 psi (104 kPa) | 121˚ C 250˚ F 15 psi (104 kPa) |

*Cycle times do not include drying time.
Cycle times are approximate and may vary depending on instrument loads.
Preset drying time is 30 min. but can be programmed from 0 to 60 minutes.

SELECT CYCLE

**Cycle Start Button**
(Initiates selected cycle)

**Manual Stop Button**
(Terminates selected
cycle or function)

Start

Stop

P  +  −  1  2

Unwrapped  Pouches  Packs  Handpieces

**Self Program Controls**

Programmable controls allow
for creation of different
cycle parameters to meet
your unique sterilization
needs. Change the following:
Time (3 to 90 minutes),
Temperature (230 to 275˚F),
Dry Time (0 to 60 minutes),
Vent (slow or fast) and two
program buttons. The #1 and
#2 buttons allow you to store
the change if desired.

**Pre-Programmed Controls**

Four pre-programmed
sterilization cycle controls:
Unwrapped (132º C or 270º F
for 3 minutes), Pouched (132º
C or 270º F for 5 minutes),
Packs (121º C or 250º F
for 30 minutes), Handpiece
(For sterilization of lumened
devices and/or dental
handpieces: 132º C or 270º F
for 6 minutes).

**LCD Display**

Indicates cycle selected,
temperature and exposure
time for selected cycle.
During the cycle, the display
shows messages describing
status of cycle. When the
cycle enters sterilization
mode, remaining time
is displayed as well as
temperature and pressure.

# M3 Sterilizer

**Ritter M3 UltraFast® Automatic Sterilizer**

The Ritter M3 UltraFast® Automatic Sterilizer is everything you need in
an autoclave. Sterilize unwrapped instruments in 6 minutes, pouched
instruments in just over 10, with the touch of a button. The M3 is easy
to use with a one-step loading operation, push-button cycle selection and
automatic door. Most importantly, your instruments are dry and ready to use
at the end of every complete cycle.

The Ritter family of sterilizers is an all-inclusive solution for your
sterilization needs. And, just like the rest of the family, the M3 comes
standard with the dependability and reliability that you have come to
expect from the Ritter name.

**The Right Thing to Do For You, Your Staff and Your Practice**

You and your staff's time is precious, so why waste it? Break free from your sterilizer with the reliable,
efficient Ritter M11 and M9 UltraClave® Automatic Sterilizers and spend your time on more important
tasks. Make the industry-leading sterilizers your choice for sterilization and have peace of mind.

*The Midmark Steri-Center
offers the optimum in
sterilization efficiency and
storage. With its single
direction instrument flow,
there are no crossover storage
issues to contaminate sterile
instruments (available in 8',
10' or 12' configurations).
For all your casework needs,
please ask for our full-line
Midmark casework brochure.*

**M3 Standard Features**

**Door Tray**
*Simple, one-step tray
operation. Lightweight,
durable stainless steel.
Ergonomically designed
handle for balance
and comfort.*

**Top Fill**
*Convenient access
to water reservoir.
Water level sensor
provides intelligent
system monitoring
and feedback.*

**Drain Access Panel**
*Front reservoir drain
with on-board drain
tube storage is practical
and time-saving.*

**Quick Reference
Guide and CD**
*On-board user
instructions and
interactive training
CD provide handy,
instant information.*

**Condensate Tank**
*Traps and contains
expelled steam. Quick
release lid, convenient
carrying handle and
water level sensor for
efficient, worry-free use.*

| Symbol | Pre-programmed Cycle | Sterilization Temperature & Pressure | Hot Cycle Time (Heat-up & Vent) | Sterilization Time | Total Hot Cycle Time | Dry Time | Total Hot Cycle Time w/ Dry |
|--------|----------------------|--------------------------------------|--------------------------------|--------------------|----------------------|----------|------------------------------|
| | Unwrapped | 270˚ F 132˚ C 27.1 psi (186 kPa) | 2.5 min. | 3.5 min. | 6 min. | 25 min. | 31 min. |
| | Pouches | 270˚ F 132˚ C 27.1 psi (186 kPa) | 5 min. | 5.5 min. | 10.5 min. | 30 min. | 40.5 min. |
| | Low Temp | 250˚ F 121˚ C 15 psi (104 kPa) | 4.5 min. | 20 min. | 24.5 min. | 50 min. | 74.5 min. |

## Accessories that add convenience.

### M11 & M9 Accessories



**Impact Printer**
*Records and prints critical sterilization cycle data, including chamber temperature and pressure, cycle elapsed times, and program cycle type.*



**Pouch Rack**
*Conveniently separates sterilization pouches for enhanced steam circulation and drying.*



**Deep Tray**
*Conveniently houses larger instruments for sterilization.*



**External Condensing Tank**
*When single use distilled water is desired for all sterilization cycles, the External Condensing Tank is a must.*
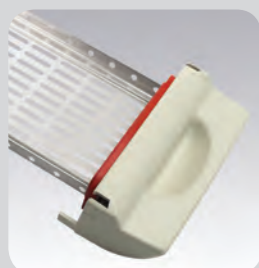
### M3 Accessories



**Top Cover Protector**
*Use the cover protector to shield the M3 top from scratches or damage.*



**Printer**
*The standalone printer is optimal for mechanical monitoring of each cycle. Records and prints critical sterilization cycle data, including chamber temperature and pressure, cycle elapsed times, and program cycle type.*



**Door Tray**
*Additional door trays allow higher efficiency instrument processing.*

# What do you want in a sterilizer?

- Fast and easy use for efficient instrument processing

- Reliable and effective for quality infection control

- Maximum space utilization and a complementary design for your sterilization area

Our full line of sterilizers address all of your critical cleaning needs. In fact, we're sure you'll find a Ritter sterilizer that's just right for your practice.

## Ritter M11 Specifications

Overall length w/plug: 23.8" (60.5 cm)
Overall width: 17.8" (45.2 cm)
Overall height w/printer: 17.8" (45.2 cm)
Minimum Countertop area:
17.8" x 21.0" (45.2 cm x 53.3 cm)

Chamber:
11" diameter (28 cm)
18" depth (45.7 cm)
6.5 gal usable volume (24.6 liters)

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

Two small – 6.6" W x 15" L x 1.1" D
          (16.8 cm x 38 cm 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 liters)

### Electrical Requirements

115 VAC, 50/60 Hz, 15 amps
Single Phase

115 VAC has 1425 watt tubular
immersion heater

UL61010-1, IEC 61010-2-040

CAN/CSA C22.2 No. 61010-1

CSA C22.2 No. 61010-2-040-07
Part 2-040

Meets the requirements of ASME Boiler
and Pressure Vessel Code

Canadian Registration Number (CRN)
available

A separate (dedicated) circuit is
recommended for this sterilizer

### Optional Accessories

9A259001 - Impact Dot Matrix Printer
9A225001 - Sterilizer Deep Tray
9A226001 - Sterilizer Pouch Rack
9A307001 - Cool Hand Tool
      (Tray & Cassette Removal Tool)
9A260001 - External Condensing Tank
9A215001 - Horizontal Cassette Rack
9A215002 - Vertical Cassette Rack

## Ritter M9 Specifications

Overall length w/plug: 20.4" (51.8 cm)
Overall width: 15.3" (38.9 cm)
Overall height w/printer: 15.8" (40.1 cm)
Minimum Countertop area:
15.3" x 17.9"  (38.9 cm x 45.4 cm)

Chamber:
9" diameter (22.9 cm)
15" depth (38.1 cm)
3.5 gal usable volume (13.4 liters)

Trays:
Two large – 7.3" W x 12" L x .8" D
          (18.6 cm x 30.5 cm x 2.2 cm)

Two small – 5.6" W x 12" L x .8" D
          (14.3 cm x 30.5 cm x 2.2 cm)

Unit weight: 73 lb (33.1 kg)

Shipping weight: 81 lb (36.7 kg)

Water reservoir capacity:
1.1 gal (4.1 liters)

### Electrical Requirements

115 VAC, 50/60 Hz, 15 amps
Single Phase

115 VAC has 1425 watt tubular
immersion heater

UL61010-1, IEC 61010-2-040

CAN/CSA C22.2 No. 61010-1

CSA C22.2 No. 61010-2-040-07
Part 2-040

Meets the requirements of ASME Boiler
and Pressure Vessel Code

Canadian Registration Number (CRN)
available

A separate (dedicated) circuit is
recommended for this sterilizer

### Optional Accessories

9A259001 - Impact Dot Matrix Printer
9A224001 - Sterilizer Deep Tray
9A226001 - Sterilizer Pouch Rack
9A307001 - Cool Hand Tool
      (Tray & Cassette Removal Tool)
9A260001 - External Condensing Tank

## Ritter M3 Specifications

Overall length w/plug: 22" (55.9 cm)
Overall width: 17.8" (45.2 cm)
Overall height: 6.9" (17.5 cm)
Minimum Countertop area:
24" D x 22" W (61 cm 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)
0.49 gal usable volume (1.8 liters)

Tray:
7.25" W x 11.75" L  x 1" D (29.8 x 18.4 x 2.5 cm)
Holds the Hu-Friedy® Signa-Stat
Cassette (6.5" x 10.5" x 1.25")

Unit weight: 71 lb (32.2 kg)

Unit weight with water: 80 lb (36.3 kg)

Shipping weight: 80 lb (36.3 kg)

Water reservoir capacity:
1.2 gal (4.5 liters)

### Electrical Requirements

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

230 VAC, 50/60 Hz, 6 amps
Single Phase

Boiler 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

Meets the requirements of ASME Boiler and
Pressure Vessel Code

Canadian Registration Number (CRN) available

A separate (dedicated) circuit is recommended
for this sterilizer

### Optional Accessories

9A404001 - Top Cover Protector
9A402001 - Door Tray
9A401001 - Printer



M550, M250 and M150 Soniclean® Ultrasonic Cleaners

**Midmark is an ISO 13485 and ISO 9001 Certified Company.**

For more information
or a demonstration, contact
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Versailles, Ohio 45380.
Call: 1-800-MIDMARK
Fax: 1-800-365-8631
midmark.com

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