

Items that cannot be sterilized in steam sterilizers—such as flexible endoscopes—must be sterilized with other methods. Ethylene oxide and vaporized hydrogen peroxide are the most commonly used sterilants for achieving terminal sterilization for these heat- and moisture-sensitive instruments.

**3M Infection Prevention Solutions** 

3M has a wide range of products for monitoring the results of every step of the low temperature sterilization process, from exposure monitoring to record keeping. And, 3M offers 3M<sup>™</sup> Steri-Vac<sup>™</sup> Sterilizer/Aerators that use 100% ethylene oxide (EO), the "gold standard" for low temperature sterilization for over 50 years. In fact, over half of all heat- or moisture-sensitive devices (including sterile single-use devices made by manufacturers) are sterilized with ethylene oxide.¹

Steri-Vac Sterilizers can help meet the challenges of modern sterile processing departments and provide excellent value through high efficacy, excellent materials compatibility, low cost-in-use, and a sterilant with an advanced ability to penetrate tight spaces and complex instrument configurations.

### **Best Practices**

- Refer to ANSI/AAMI ST58: Chemical sterilization and high level disinfection in health care facilities.
- Refer to ANSI/AAMI ST41: Ethylene oxide sterilization in health care facilities: Safety and effectiveness.
- Refer to ISO 111351-1: Sterilization of health care products Ethylene oxide Requirements for the development, validation and routine control of a sterilization process for medical devices.
- Consider the value of critical instrumentation, instrument repair intervals when using different sterilization
  methods, and demonstrated use frequency to help determine the optimal combination of low and high
  temperature sterilizing technologies for your health care facility's overall equipment strategy.
- Always consult the medical device manufacturer for their written reprocessing guidelines, including recommended sterilization compatibility and parameters.

Global Industry Analysts, Inc. Sterilization Equipment and Supplies – A Global Strategic Business Report MCP-3362 Oct. 2011.





## Ethylene Oxide Sterilization - Rapid Readout Monitoring

## ETHYLENE OXIDE - 4-hour

Cat. No. Description

## 3M<sup>™</sup> Attest<sup>™</sup> Rapid Readout Biological Test Packs for Ethylene Oxide (EO) Sterilization

Each test pack contains a 3M<sup>™</sup> Attest<sup>™</sup> Rapid Readout Biological Indicator 1294 for Ethylene Oxide.

- Results in 4 hours
- This convenient disposable pack is designed to be as resistant as the routine EO biological indicator test pack recommended by AAMI



	·		
1298* 1298F*	EO Test Pack (25 controls/box) EO Test Pack (5 controls/box)	25 packs/box 25 packs/box	

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390G or Auto-reader 290G.

## ETHYLENE OXIDE - 4-hour

Cat. No. Description

# 3M<sup>™</sup> Attest<sup>™</sup> Rapid Readout Biological Indicator for Ethylene Oxide (EO) Sterilization

• Results in 4 hours



1294\* EO Biological Indicator (Green cap) 50 each/box 4 boxes/case
\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390G or Auto-reader 290G.

**Packaging** 

Shipping

## ETHYLENE OXIDE - 4-hour

# 3M<sup>™</sup> Attest<sup>™</sup> Auto-reader 390G for Ethylene Oxide (EO) Sterilization

- For use with 3M<sup>™</sup> Attest<sup>™</sup> Rapid Readout Biological Indicator 1294 for Ethylene Oxide
- Backlit LCD panel for fast, easy reading of data, including at-a-glance minutes remaining in incubation
- Easy custom configuration buttons on top of the unit
- Remote viewing of BI results from your Smart Phone or PC
- Option to save and/or print incubation records from Web App
- Ability to connect to select instrumenttracking software systems



Cat. No.	Description	Packaging	Shipping
390G	Auto-reader for use with 3M™ Attest™ Rapid Readout Biological Indicator 1294 for EO, 37°C (98.6°F)	1 unit/box	1 box/cas

# Ethylene Oxide Sterilization - Standard Readout Monitoring

## ETHYLENE OXIDE - 48-hour

Cat. No. Description

# 3M<sup>™</sup> Attest<sup>™</sup> Biological Indicator Test Packs for Ethylene Oxide (EO) Sterilization

Each test pack contains a 3M<sup>™</sup> Attest<sup>™</sup> Biological Indicator 1264.

- Biological indicator vials are easy to use and interpret with visual color readout in 48 hours
- This convenient disposable challenge pack presents a challenge to the sterilization process equivalent to the user-assembled Bl challenge pack (towel PCD) recommended to AAMI

 $^{\dagger}\!\text{As}$  defined by ANSI/AAMI/ISO 11140-1:2005/ (R)2010



1278**	EO Test Pack (25 controls/box)	25 packs/box	2 boxes/case
1278F**	EO Test Pack (5 controls/box)	25 packs/box	2 boxes/case

Packaging

Shipping

\*\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 117, 127 or 130.

## ETHYLENE OXIDE - 48-hour

# 3M<sup>™</sup> Attest<sup>™</sup> Biological Indicators for Ethylene Oxide (EO) Sterilization

• Biological indicator vials are easy to use and interpret with visual color readout in 48 hours



Gal. NO.	Description	rackayiiiy	onipping
1264**	EO Biological Indicator (Green cap)	100 each/box	4 boxes/case
1264P**	FO Biological Indicator (Green cap)	25 each/box	4 boxes/case

\*\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 117, 127 or 130.

## ETHYLENE OXIDE

# 3M<sup>™</sup> Attest<sup>™</sup> Biological Indicator Incubators for Ethylene Oxide (EO) Sterilization

Provide optimal conditions for accurate readout of  $3M^{TM}$  Attest  $^{TM}$  Biological Indicators.

- Convenient, 14- or 28-vial capacity
- Dry-block design pre-set to proper incubation temperature



Cat. No.	Description		Packaging	Shipping
117	14-vial (round), 37°C (EO Biological Indicator 1264		1 each/box	1 box/case
127	28-vial (2-tier), 37°C (EO Biological Indicator 1264	,	1 each/box	1 box/case
130	28-vial (2-tier), 37°C/56° use with Steam Biologica or 1262 or EO Biological	Il Indicator 1261	1 each/box	1 box/case

## **Products for Low Temperature Sterilization**

## ETHYLENE OXIDE

## 3M<sup>™</sup> Comply<sup>™</sup> Ethylene Oxide (EO) Chemical Indicator Strip

Long strip of chemical indicator ink printed on perforated-style strip.

- Allows full- or half-length use for different pack sizes
- For use in 100% EO sterilization systems
- Indicator changes from red to green when exposed to ethylene oxide sterilization conditions

Cat. No. Description **Packaging** EO Chemical Indicator Strip, 1251 240 each/box 1 box/case 1,5 cm x 20 cm (5/8" x 8")

2 cm x 10 cm (13/16" x 4")

## VAPORIZED HYDROGEN PEROXIDE

1248

## 3M<sup>™</sup> Comply<sup>™</sup> Gas Plasma Chemical Indicator Strip

Internal pack chemical indicator for use in STERRAD® sterilization processes (Models 50, 100S and 100).

- Indicator turns from blue to pink when exposed to a vaporized hydrogen peroxide sterilization process
- · Indicator color does not fade when exposed

# Cat. No.

**Packaging** Shipping

250 each/box 4 boxes/case

Shipping

304 Comply" 1248 Gas Planna Chemical Indicator Strip

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## ETHYLENE OXIDE

# 3M<sup>™</sup> Comply<sup>™</sup> Indicator Tapes for Ethylene Oxide (EO) Sterilization (AAMI Class 1)<sup>†</sup>

External indicator tape for use in ethylene oxide sterilization processes.

- · Provides immediate identification of processed items and seals packs
- Chemical indicator lines turn from yellow to red when exposed to an EO sterilization process

<sup>†</sup>As defined by ANSI/AAMI/ISO 11140-1:2005/ (R)2010



oat. No.	Description	i ackaying	Oriipping
1224-0	1,25 cm x 55 m (1/2" x 60 yds.), Green	_	36 rolls/case
1224-1 1224-6	2,5 cm x 55 m (1" x 60 yds.), Green	_	18 rolls/case 24 rolls/case
1224-0	1,9 cm x 55 m (3/4" x 60 yds.), Green	_	24 folis/case

## VAPORIZED HYDROGEN PEROXIDE

## 3M<sup>™</sup>Comply<sup>™</sup> Gas Plasma **Indicator Tape**

External indicator tape for use in STERRAD® sterilization processes (Models 50, 100S and 100).

- Provides immediate identification of processed items and seals packs
- Chemical indicator lines turn from blue to pink when exposed to a vaporized hydrogen peroxide sterilization process



Cat. No. Packaging Shipping 1228 1,9 cm x 55 m (3/4" x 60 yds.), White 24 rolls/case

## ACCESSORIES

Cat. No.

The 3M<sup>™</sup> Comply<sup>™</sup> Indicator Tape Dispenser M52 with tabber has a weighted base and can accommodate three rolls of 1/2-inch (1,25 cm), up to two rolls no wider than 1-inch (2,5 cm), or one 2-inch (5 cm) roll of indicator tape. A tabber can be attached to the tape dispenser, which automatically folds a 1/4-inch (0,64 cm) length

3M<sup>™</sup>Tape Dispensers

The Heavy Duty Tape Dispenser C22 is made of rugged, high impact, durable plastic and can hold two rolls of 1-inch (2,5 cm) wide indicator tape.

of tape up to a 1-inch (2,5 cm) roll width.



Description		rackayiiiy	Shipping
Heavy Duty	Tape Dispenser	_	1 each/case
Heavy Duty	Tape Dispenser	_	2 each/case

## ETHYLENE OXIDE

# 3M<sup>™</sup> Steri-Gas<sup>™</sup> EO Gas Cartridges

Easy-to-use, single-dose cartridges are engineered for safety.

- Precise usage of EO with single-dose cartridges means no waste of sterilant
- No CFCs or HCFCs (100% EO)
- For use with 3M<sup>™</sup> Steri-Vac<sup>™</sup> Sterilizers



Cat. No.	Description	Packaging	Shipping
4-100	100 gram (3.5 oz.) Cartridge for Models 400C, 4XL and 5XL	12 each/box	4 boxes/case
8-170	170 gram (6 oz.) Cartridge for Model 8XL	12 each/box	4 boxes/case

#### ETHYLENE OXIDE

	ETHYLENE UXIDE			
3M™ Steri-Vac™ Printer Papers	Cat. No.	Description	Packaging	Shipping
Designed to work with 3M <sup>™</sup> Steri-Vac <sup>™</sup> Models 4XL, 5XL and 8XL Sterilization Systems.	1216A	Printer Paper, 60 mm (2-3/8" for 4XL and 5XL (with serial I below 720000)		2 rolls/case
	1217	Printer Paper, 79 mm (3-1/8' for 8XL and 5XL (with serial I above 720000)		2 rolls/case

# Products for Low Temperature Sterilization

## ETHYLENE OXIDE

## 3M<sup>™</sup> Steri-Lok<sup>™</sup> Peel Open Packages for Ethylene Oxide (E0) Sterilization

Provides a breathable barrier that allows sterilant to permeate, while preventing microbial penetration during handling and storage after sterilization.

• For use inside single peel pouches



Cat. No.	Description	Packaging	Shipping
8502 8504	7,9 cm x 24,8 cm (3-7/8" x 9-3/4") 7,9 cm x 61 cm (3-1/8" x 24")	250 each/box 250 each/box	
8505	17,8 cm x 33 cm (7" x 13")	250 each/box	4 boxes/case
8506 8507	29,8 cm x 38 cm (11-3/4" x 14-7/8") 40 cm x 45,7 cm (15-3/4" x 18")	250 each/box 250 each/box	
0001	40 cm x 40,7 cm (10-3/4 X 10 )	200 GaCII/DOX	4 DUXES/Case

## STEAM AND ETHYLENE OXIDE

#### 3M<sup>™</sup> Comply<sup>™</sup> Instrument Protectors Cat. No. Packaging Shipping 5,1 cm x 12,8 cm (2" x 5") 13911 100/pack 10 packs/case Protect sharp-pointed surgical instruments 13913 9,9 cm x 16,8 cm (3-1/2" x 6-5/8") 100/pack 10 packs/case from damage and reduce possibility of pouch 13915 14 cm x 24 cm (5-1/2" x 9-1/2") 100/pack 10 packs/case puncture during sterilization and handling. · Indicators on the protectors verify steam or EO gas processing

# SM™ Ethylene Oxide (EO) Monitoring Badge (with prepaid analysis) Lightweight monitoring badges designed for sampling personnel or work areas. Uses proven scientific principle of diffusion. • Clips to lapel or pocket near breathing zone for passive monitoring of individual during a

 Meets OSHA accuracy requirements for 8-hour TWA and 15-minute STEL sampling of

• Badge is mailed for prepaid analysis and a report is provided to the sender

ethylene oxide

## STEAM, ETHYLENE OXIDE, OTHER LOW TEMPERATURE METHODS AND GLUTARALDEHYDE MONITORS

Cat. No.

# 3M<sup>™</sup> Attest<sup>™</sup> Log Books

Preprinted log books put monitoring information at your fingertips.



1267-A	Log Book for EO with 50 Record Charts, Green, use with 3M™ Attest™ Rapid Readout Biological Indicators 1294	1 each/pack	1 pack/case
1268	Log Book with 50 Record Charts, use with all Low Temperature BI and CI products	1 each/pack	1 pack/case

Packaging

## STEAM AND ETHYLENE OXIDE

## 3M<sup>™</sup> Comply<sup>™</sup> Load Record Cards

Provide a permanent record of sterilizer use and work flow.



Cat. No.	Description	Packaging	Shipping
1253	EO Load Record Card, 7,6 cm x 12,8 cm (3" x 5")	240 each/box	2 boxes/case
67200	Steam and EO Load Record Card, 7,6 cm x 12,8 cm (3" x 5")	250 each/box	4 boxes/case
67201	Steam and EO Load Record Card, 10,2 cm x 14 cm (4" x 5-1/2")	250 each/box	4 boxes/case

## STEAM, ETHYLENE OXIDE AND OTHER LOW TEMPERATURE METHODS

separately)

#### 3M<sup>™</sup> Envelopes, Sheets and Binders Cat. No. Packaging Shipping 1254E-A Sterilization Record Envelopes with two 100 each/pack 5 packs/case Build a flexible record keeping system based on "Load-Contents" columns for Steam, IUSS the needs of your department. or Low Temperature Systems, 24,13 cm x 29,21 cm (9-1/2" x 11-1/2") 1254S-A Sterilization Record Sheets with two 250 each/pack 4 packs/case "Load-Contents" columns for Steam, IUSS or Low Temperature Systems, 21,59 cm x 27,94 cm (8-1/2" x 11") 1254E-LT Low Temperature Sterilization Record 100 each/pack 5 packs/case Envelopes with one "Load-Contents" column format, 24,13 cm x 29,21 cm (9-1/2" x 11-1/2") 1254-A Sterilization Record System, binder with 1 each/case 1 each 50 each 1254E-A envelopes and 50 each 1254S-A sheets 1254B Sterilization Record Binder (order 1254E 1 each 1 each/case series envelopes and 1254S-A sheets

## Products for Low Temperature Sterilization

## HARDWARE

8XL

### 3M<sup>™</sup> Steri-Vac<sup>™</sup> Sterilizer/Aerator 8XL

100% ethylene oxide (EO) gas sterilizer/aerator with two pre-programmed cycles: Warm Cycle (55°C) and Cool Cycle (37°C).

- 7.9 cu. ft. chamber
- Physical cycle parameters are shown on display with print capability
- Designed for safety, single-dose 100% E0 cartridge is punctured inside the chamber only when proper negative pressure conditions are achieved
- Built-in aeration cycle allows a single chamber process



## Cat. No. Description

Available in single- or double-door, pass-through design Exterior: 179 cm (H) x 94 cm (W) x 109 cm (D)

[70" (H) x 37" (W) x 43" (D)] Chamber: 46 cm (H) x 51 cm (W) x 97 cm (D) [18-1/8" (H) x 20" (W) x 38" (D)]

# HARDWARE

5XL

## 3M™ Steri-Vac™ Sterilizer/Aerator 5XL

100% ethylene oxide (EO) gas sterilizer/aerator with two pre-programmed cycles: Warm Cycle (55°C) and Cool Cycle (37°C).

- 4.8 cu. ft. chamber
- Physical cycle parameters are shown on display with print capability
- Designed for safety, single-dose 100% E0 cartridge is punctured inside the chamber only when proper negative pressure conditions are achieved
- Built-in aeration cycle allows a single chamber process



## Cat. No. Description

Available in single- or double-door, pass-through design

Exterior: 59 cm (H) x 76 cm (W) x 90 cm (D) [23" (H) x 30" (W) x 35" (D Chamber: 38 cm (H) x 43 cm (M) x 83 cm (D)

Chamber: 38 cm (H) x 43 cm (W) x 83 cm (D) [15" (H) x 17" (W) x 34" (D)]

## HARDWARE

Cat. No.

50

## 3M™ Ethylene Oxide (EO) Abator

Abator removes EO gas exhausted from  $3M^{\text{TM}}$  Steri-Vac<sup>TM</sup> Sterilizers/Aerators, converting it into  $CO_2$  and water vapor.

- Removal efficiency is 99.9%+ at normal operating temperatures and concentrations (EO concentrations greater than 100 ppm)
- The unit comes complete, ready for installation and connection to the building utility service lines and sterilizer exhaust, then works automatically with sterilization system
- Each EO Abator can be used with up to two 3M<sup>™</sup> Steri-Vac Sterilizer/Aerators Model 5XL or 8XL



81 cm (H) x 92 cm (W) x 107 cm (L) 32" (H) x 36" (W) x 42" (L)

Description

Shipping

1 unit/case

Shipping

1 unit/case

Shipping

1 unit/case

## **3M**

## 3M Health Care Infection Prevention Division

3M Center, Building 275-4E-01 St. Paul, MN 55144-1000 USA 1-800-228-3957 www.3M.com/infectionprevention 3M, Attest, Comply, Steri-Gas, Steri-Lok and Steri-Vac are trademarks of 3M Company.
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