

# Breakthrough Technology For Hospital Sterilization

ANDERSEN  
STERILIZERS

EOGas 4<sup>PLUS</sup>

**Lethal** enough  
to kill. **Gentle**  
enough to save.

FDA  
CLEARED

POWER ON

PUMP ON

ANDERSEN  
STERILIZERS

AN5100 Abator

# EOGas 4<sup>PLUS</sup>

## The Perfect Complement to Your Infection Prevention Strategy

Hospitals and specialty clinics need a safe, compatible and reliable process to sterilize medical instruments of every kind, including medical devices that would degrade if processed with steam or hydrogen peroxide:

- Plastic
- Cellulose
- Rubber
- Sharps

Our state-of-the-art EOGas 4<sup>PLUS</sup> system, featuring Ethylene Oxide-Flexible Chamber Technology (EO-

FCT), delivers. EO-FCT is significantly different than traditional ethylene oxide rigid chamber systems.

Because EO-FCT removes excess air from the chamber, the system requires only a microdose of EO (17.6 grams) to achieve terminal sterilization.

EOGas 4<sup>PLUS</sup> is compact, effective, efficient and environmentally friendly, giving healthcare facilities a proven and reliable low-temperature gas sterilization option. EOGas 4<sup>PLUS</sup> helps you protect your patients and preserve your delicate instruments.



# FDA, AAMI Provide Critical Guidance

## “Sterilize,” They Say

**Tough on Pathogens.  
Gentle on Instruments.**

EOGas 4<sup>PLUS</sup> is cleared by FDA to sterilize all flexible endoscopes, including those that have >1100 mm working lumens. It is the first sterilizer to receive FDA 510(k) clearance for terminal sterilization of duodenoscopes and colonoscopes.

### Is HLD Enough?

Healthcare facilities worldwide continue to report hospital-acquired infections resulting from inadequately cleaned medical devices – despite having followed manufacturers' cleaning instructions and standard of care for reprocessing. These adverse events put our most vulnerable patients at risk. Learn more at: [Is HLD Enough?](#)



William K. Andersen, MD  
Chief Executive Officer

**The ONLY system  
in the world proven to sterilize  
the longest lumens.\***



Jenny Zhang, PhD  
Chief Scientist

# Ethylene Oxide

## Flexible Chamber Technology

A Breakthrough Technology Using 90% Less EO  
Than Any Other System of Its Kind



Watch EO-FCT

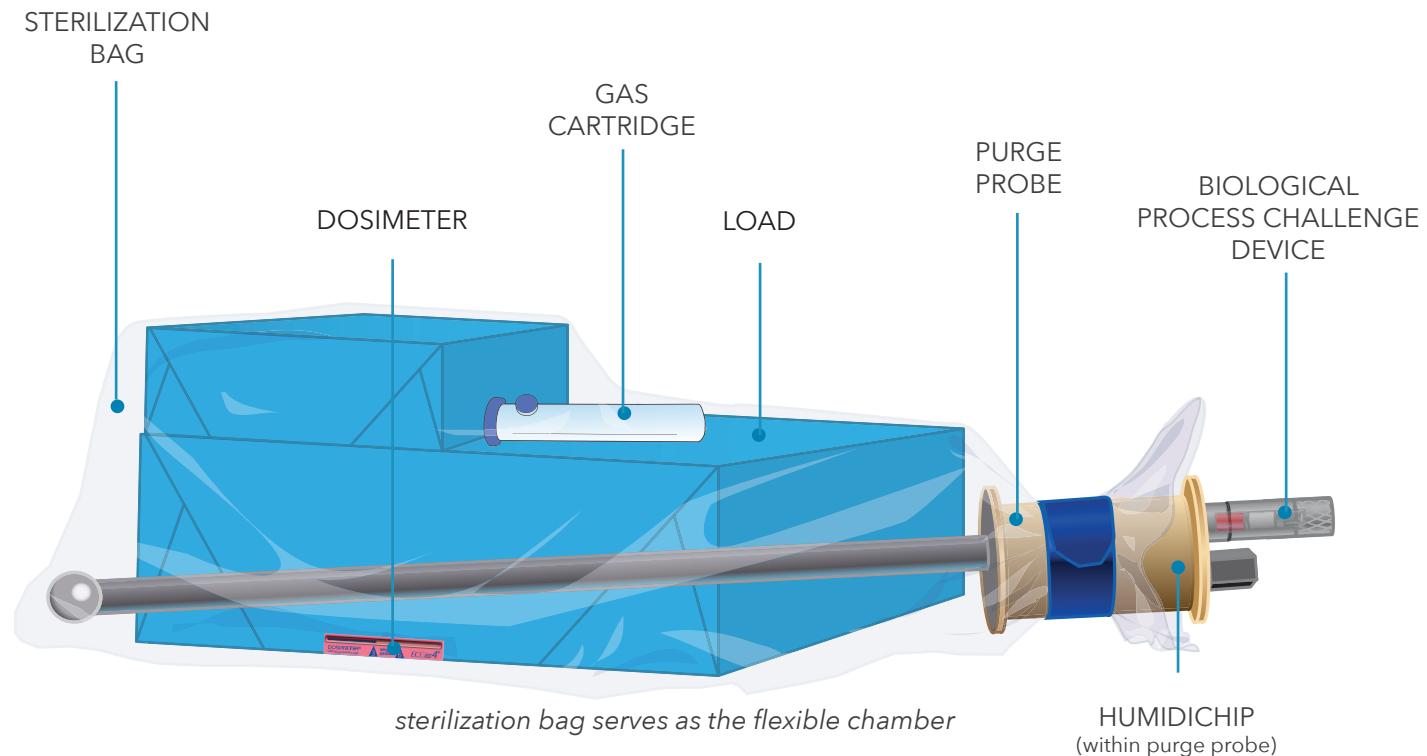
Andersen's exclusive and award-winning EO-Flexible Chamber Technology (EO-FCT) uses 90% less ethylene oxide than competitive systems.

Each EO<sup>Gas</sup> 4<sup>PLUS</sup> sterilization cycle uses a cartridge containing 17.6 grams of EO in a hermetically sealed ampoule. By removing excess air from the gas-impermeable sterilization bag, eliminating dead space, the ultra-low dose provides sufficient EO for terminal sterilization.

The ethylene oxide, which is released when the cartridge is activated, sterilizes the wrapped devices in the sterilization bag. During abatement, the system's emissions are reduced by 99.9% – effectively zero emissions. In 2019, FDA recognized EO-FCT, awarding Andersen with its Innovation Challenge Award.

EO<sup>Gas</sup> 4<sup>PLUS</sup>, featuring EO-FCT, is the only system cleared by FDA for the terminal sterilization of duodenoscopes and colonoscopes ( $\geq 1.2$  mm ID,  $\leq 3530$  mm maximum length of any channel).

### Ethylene Oxide – Flexible Chamber Technology



# LOW TEMPERATURE! Acquisition Cost! Emissions! DOSE!

Never has peace of mind required so little investment.

## 3- and 6-hour EO Exposure

EOGas 4<sup>PLUS</sup> achieves FDA-required 10<sup>-6</sup> sterility assurance level.

## Compact

EOGas 4<sup>PLUS</sup> is small and compact in relation to other similar systems, yet it has greater chamber capacity.

## Easy Installation

Requires only a 120v or 230v outlet and a 1-inch exhaust line.

## Active Aeration in a Single Chamber

No need to transfer devices to a separate area. EO absorbent devices may require additional aeration.

## 100% EO Cartridge

The cartridge protects the hermetically sealed glass ampoule. The system uses just 17.6 grams of EO – essentially a microdose of gas per cycle.

## Make Your System ZERO Emissions



Andersen's optional abator is a simple, cartridge-based system that employs a dry catalyst resin. The resin converts ethylene oxide to biodegradable organic compounds.

Replacement cartridges remove more than 99.9% of the EO in the exhaust stream, resulting in a fraction of a gram of total EO emissions over the course of a multi-hour cycle. This tiny amount of EO is vented outside your facility where it disperses rapidly, quickly becoming undetectable.



## Lock Mechanism

The door automatically locks at the start of the cycle and unlocks at the end.

## Simplified Controls

Simple interface and digital display. Sterilization status and cabinet temperature shown throughout the cycle.

## Controlled Environment

Warm air circulates throughout the chamber walls to maintain a constant temperature – ensuring effective sterilization and aeration in the same chamber.

## Process Challenge Device

Built into the purge probe to ensure the biological indicator is in a more difficult location for EO to reach.

## Replaceable Abator Cartridge

200-cycle capacity. Unit tracks cycles remaining. Used cartridges are non-hazardous and may be discarded in most landfills or returned to Andersen for disposal.

EASY TO MAINTAIN



# Award-Winning Technology Supports Environmentally Friendly Systems

Since its founding more than 60 years ago, Andersen Sterilizers has demonstrated dedication to safe and effective low-temperature sterilization solutions with little to no impact on the environment.

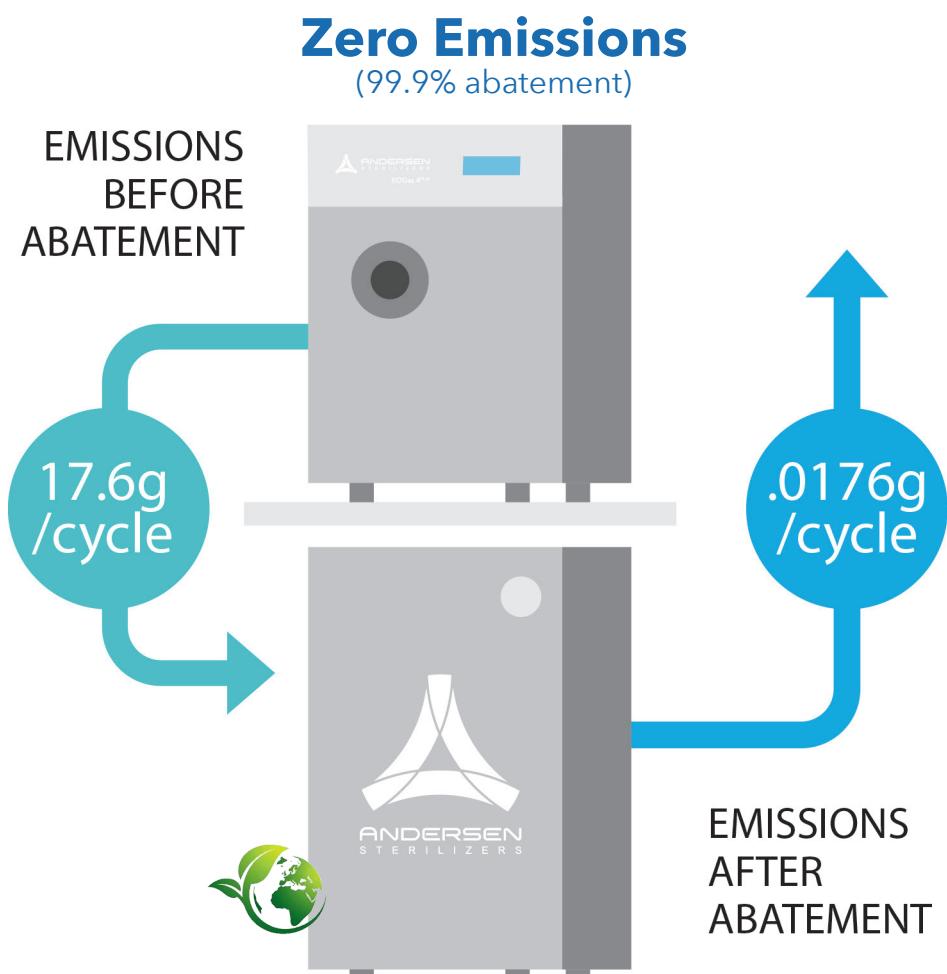
In 2019, FDA acknowledged Andersen's emission-reducing technology by recognizing Andersen Scientific as an "Innovation Challenge Winner." The FDA announced its Innovation Challenge to "develop strategies or technologies to reduce emissions to as close to zero as possible from the EO sterilization process."

In 2020 the National Steering Committee of the Small Business Environmental Assistance Programs and Small Business Ombudsmen recognized

Andersen with the Small Business Environmental Stewardship Award. Andersen was recognized for its high-efficiency, low-emissions sterilization process.

As a result of removing excess air from the sterilization bag, the EO<sup>Gas</sup> 4<sup>PLUS</sup> with FCT achieves terminal sterilization using less EO (17.6 grams) than rigid chamber systems.

When combined with Andersen's emissions abator, our sterilization systems release less than 0.02 grams of EO into the environment per cycle, making EO<sup>Gas</sup> 4<sup>PLUS</sup> one of the most environmentally friendly systems on the market. EO<sup>Gas</sup> 4<sup>PLUS</sup> has the same power requirements as a typical hairdryer.



# EOGas 4<sup>PLUS</sup> **HIGHLIGHTS**

## Don't Culture Endoscopes. Sterilize Them!

EOGas 4<sup>PLUS</sup>, featuring **EO-FCT**, **protects your patients**, especially those most vulnerable, and it preserves your instruments.

With EOGas 4<sup>PLUS</sup>, there's no need to culture endoscopes. This state-of-the-art-system **sterilizes and aerates in the same chamber** and is the only system **FDA-cleared** for the terminal sterilization of long lumens – in just a few hours:

- Six-hour gas exposure for two duo-denoscopes or colonoscopes or one of each
- One-hour ventilation
- Length of aeration follows manufacturer's instruction for use (IFU)
- Four-hour rapid release BI incubation

SPDs should operate EOGas 4<sup>PLUS</sup> systems for processing medical instruments that other modalities

damage and degrade. Equipped with two purge probes with process challenge devices (3- and 6-hour gas exposures respectively), EOGas 4<sup>PLUS</sup> goes above and beyond, offering a **low-per-cycle-cost**, **space-saving tabletop design** and **unparalleled compatibility**.

When paired with an abator, EOGas 4<sup>PLUS</sup> produces **zero emissions** (99.9% abatement). Low temperature. Low dose. Low emissions. Low acquisition cost. Never has peace of mind required so little investment.

Andersen's breakthrough **EO-FCT** is **ethylene oxide sterilization reimaged**. No other company in the world uses as little EO to achieve **terminal sterilization**.

Join healthcare facilities around the world embracing EOGas 4<sup>PLUS</sup>. Protect your patients. Preserve your instruments. Learn more at [sterility.com](http://sterility.com).

## EO Gas Sterilization Reimagined

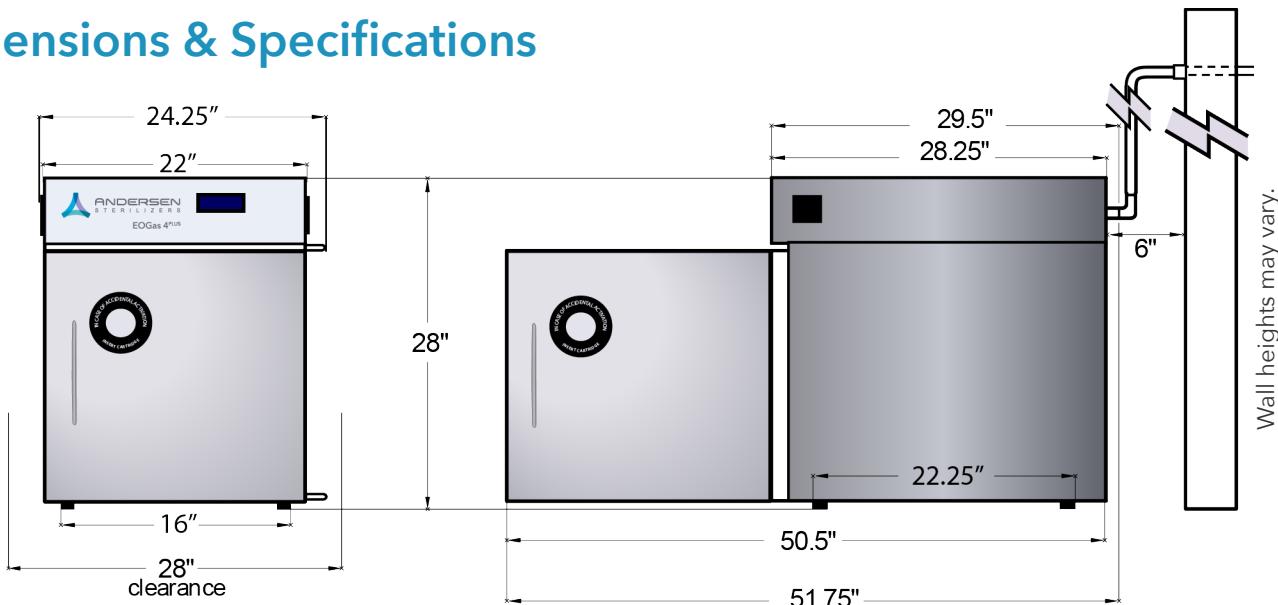
### Low-Dose Modern-Day Usage

EOGas 4<sup>PLUS</sup>, featuring EO-FCT, requires just 17.6 grams of EO per cycle to achieve terminal sterilization – that's up to 90% less EO than our competitors' rigid chamber systems.

17.6 grams per cycle



# Dimensions & Specifications



Model	Interior Dimensions	Exterior Dimensions	Weight
EOGas 4 PLUS	25.25" L x 18" W x 14" H	29.5" L x 22" W x 28" H	161 lbs (73 kg)

Power Supply: 120v (230v available)

## Endoscopes Approved For Sterilization In EO Gas 4<sup>PLUS</sup>

Exposure	Device	Maximum Load	
6-Hour	>1100 mm working lumen length endoscopes	Two (2) duodenoscopes* ≥2.0 mm ID biopsy channel ≤1250 mm working length; ≥1.2 mm ID, ≤3530 mm maximum length of any channel	Two (2) colonoscopes* ≥3.7 mm ID biopsy channel ≤1700 mm working length; ≥1.2 mm ID, ≤3530 mm maximum length of any channel
3-Hour	≤1100 mm working lumen length endoscopes	One (1) ≥2.0 mm ID biopsy channel ≤1100 mm working length	Four (4) ≥1.2 mm ID biopsy channel ≤700 mm working length

\*or one duodenoscope may be paired with one colonoscope



Indications for Use

Also cleared for metal, plastic and fabric loads. See full EO Gas 4 FDA 510(k) clearance: <https://bit.ly/3J5yGuh>

## Andersen Sterilizers: The Future of EO Sterilization, Today

Established more than 60 years ago by physicians, Andersen Sterilizers is the leader for in-house EO-FCT sterilization worldwide. For decades, Andersen has focused on perfecting one thing – the design and manufacturing of safe, effective and affordable low-temperature sterilization solutions for healthcare,

veterinary, research and manufacturing markets. Andersen's FDA-cleared systems are an essential complement to any infection prevention strategy. Andersen's sterilizers are lethal on pathogens, helping to protect patients, yet they are gentle on complex medical devices, preserving them for future use.



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