



Andersen's EO Flexible Chamber Technology (EO-FCT) sterilizers offer the most gas-efficient process on the market today. We offer a range of [FDA Cleared](#) and [ISO approved](#) systems for medical, industrial and veterinary applications. When paired with an Andersen emissions abator, these high-efficiency systems produce effectively [zero emissions](#) to the environment. Andersen's abators are easy to install and their replaceable cartridges last 200 cycles.

The Most Effective Sterilant



- Proven reliability
- 50% of all medical devices are sterilized with EO
- FDA recommended for material compatibility and duodenoscope sterilization

The Most Efficient Sterilizer



- Use a 17.6 gram EO microdose each cycle
- Eliminates chamber dead space with our proprietary technology (EO-FCT)
- Ability to sterilize long, narrow and multi-channel lumens.

Zero Emissions Process



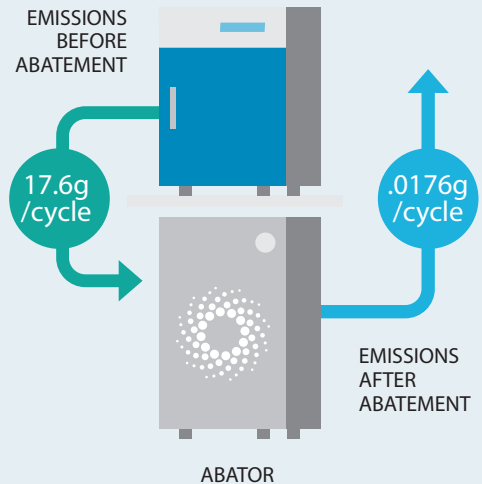
- Andersen's AN5100 Abator completes this zero emissions sterilization system
- Demonstrated 99.9%¹ efficiency
- Dry catalyst resin converts EO to biodegradable organic compounds

EOGas 4 Emissions by the Numbers



Single cycle emissions for an Andersen Anprolene Sterilizer:
17.6 grams.

With the addition of an optional emissions abator (AN5100):
0.0176 grams.



Emissions Data for Andersen EOGas 4 Sterilization System:

The Andersen EOGas 4 sterilizer uses a 17.6 gram, 100% ethylene oxide (EO) cartridge. The cycle time is 3 hours of sterilization with a 0.5-hour purge cycle, for a total 3.5-hour minimum cycle. Additional aeration may be necessary.

| <u>Annual Emissions based on typical usage:</u> | <u>Without Abator</u> | <u>With Abator (99.9% Efficiency)¹</u> |
|---|-----------------------|---|
| Light use (two cycles per week): | 4 lbs / 1.8 kg | 0.004 lbs / 0.002 kg |
| Medium use (five cycles per week): | 10 lbs / 4.5 kg | 0.010 lbs / 0.005 kg |
| Heavy use (ten cycles per week): | 20 lbs / 9.1 kg | 0.020 lbs / 0.009 kg |
| Annual Maximum Emissions: | 97.1 lbs/ 44 kg | 0.097 lbs / 0.044 kg |

Annual Maximum Emissions calculations:²

- Hours in a year: $365 \times 24 = 8,760$
- Maximum potential number of EOGas 4 cycles in a year: $8,760 / 3.5 \text{ hour cycle} = 2,502.9^3$
- Maximum potential grams used per year: $2,502.9 \times 17.6 = 44,050$
- Maximum potential emissions per year: $44,050 / 453.6 = 97.11 \text{ lbs} / 44 \text{ kg}$

1. These tested efficiency numbers are based upon Andersen Sterilizers' laboratory test - "Efficiency Testing for the AN5100 Cartridge Abator and the AN5200 Barrel Abator."

2. The Annual Maximum Emissions calculation assumes that a sterilizer is run 24 hours a day, seven days a week, for all 365 days of a year. This calculation is used by some regulatory agencies to determine the maximum potential emissions from a system. It does not include additional aeration time and does not reflect the usage or the emissions of a typical user/facility.

3. Assumes no additional aeration. In practice, many loads will require 12 to 24 hours of additional aeration in the cabinet.

