

endoscope sterilization

## High Efficiency Gas Sterilization Systems



Andersen's EO Flexible Chamber Technology (EO-FCT) sterilizers offer the most gas-efficient process on the market today. We offer a range of 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 The Most Efficient **Zero Emissions** Process Sterilant Sterilizer • Use a 17.6 gram EO microdose Andersen's AN5100 Abator Proven reliability each cycle completes this zero emissions 50% of all medical devices sterilization system • Eliminates chamber dead space are sterilized with EO with our proprietary technology • Demonstrated 99.9%<sup>1</sup> efficiency • FDA recommended for (EO-FCT) material compatibility and

Ability to sterilize long, narrow

and multi-channel lumens.

 Dry catalyst resin converts EO to biodegradable organic compounds

## Anprolene 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 Anprolene Sterilization System:

The Andersen Anprolene sterilizer uses a 17.6 gram, 100% ethylene oxide (EO) cartridge. The cycle time is 12- to 24-hours of sterilization with a 2-hour aeration cycle, for a total 14-hour minimum cycle. Additional aeration may be necessary.

Annual Emissions based on typical usage:	<u>Without Abator</u>	<u>Wit</u>
Light use (one cycle per week):	2 lbs / .92 kg	0.0
Medium use (two cycles per week):	4 lbs / 1.83 kg	0.0
Heavy use (five cycles a week):	10 lbs / 4.57 kg	0.0
Annual <i>Maximum</i> Emissions:	24.3 lbs / 11 kg	0.0

With Abator (99.9% Efficiency)<sup>1</sup> 0.002 lbs / 0.0009 kg 0.004 lbs / 0.0018 kg 0.010 lbs / 0.005 kg 0.024 lbs / 0.011 kg

Annual Maximum Emissions calculations:<sup>2</sup>

- Hours in a year: 365 x 24 = 8,760
- Maximum potential number of Anprolene cycles in a year: 8,760/14 hour cycle =  $625.7^3$
- Maximum potential grams used per year: 625.7 x 17.6 = 11,012
- Maximum potential emissions per year: 11,012/453.6 = 24.3 lbs / 11 kg



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

<sup>2.</sup> 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.

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