

## Veterinary

## 100% Ethylene Oxide

Save money through reuse or extending the life of your implements, by using Andersen's gentle ethylene oxide sterilisers. Our technology is simple, reliable and safe, and trusted by thousands of veterinary surgeries around the world.



**Sterilise everything that an autoclave can't!**

### Andersen EtO Benefits



**Re-use items:** Items that would normally be destroyed in an autoclave can be sterilised for re-use. For instance re-sterilising your hot blades may allow you to offer economic laparoscopic spaying.



**Zero damage:** Some items that can be processed through an autoclave do suffer some damage. Any instrument with a cutting or grinding edge will lose that edge when you sterilise it with heat and steam.



**True sterilisation:** Disinfection is routine for some devices, such as GI endoscopes. After treating some patients (e.g. a horse with Strangles) you can now sterilise and prevent transmission to the next customer.



**Procedure kits:** Enjoy the flexibility and cost saving of making up your own procedure kits. You may also re-sterilise items where the pack had been opened but the contents were not used.

### The Andersen System

EtO is a very versatile sterilising agent and is used to sterilise a wide range of items other than food, drugs and liquids. Our delicate cycles protect and extend the life of your delicate instruments; electronics, drills, fibre optics, cameras, laptops and plastic or rubber items...



#### *Micro-Dose System:*

Ethylene oxide is provided in glass ampoules. These are activated at the heart of the load, delivering a high level of sterility with a tiny amount of gas.



#### *Active Aeration:*

Items are sterilised and aerated in the same chamber. At the end of the sterilisation cycle clean air is "washed" over your items, so there is no worry about residues.

### Items Suitable for EtO Sterilisation

EtO is a very versatile sterilising agent and can, as we like to say here at Andersen, sterilise everything other than food, drugs and liquids. The table to the right compares the compatibility of different sterilisation methods on different materials. Should you require a more detailed list, please do not hesitate to contact us.

1= not recommended, 4 = excellent

Raw material designation	Radiation	EtO	Moist Heat	Dry Heat	Hydrogen Peroxide	Ozone
Cellulose ester	2	4	1-2	1-3	1	1-3
Cellulose, paper, cardboard	2-3	4	1-2	1-2	1	1-3
EPDM	3-4	4	3-4	2-3	2-3	2
Perfluoro alkoxy (PFA)	1	4	4	4	4	4
Polyamides (eg. Nylon)	2-3	4	1-4	1-4	3	3
Polycarbonates (PC)	3-4	4	1-3	2	4	4
Polyethylene (PE)	3-4	4	1-3	1-2	4	4
Polypropylene (PP) stabilised	2-3	4	2-3	1-3	4	4
Polytetrafluoroethylene (PTFE)	1	4	4	4	4	4
Polyvinylchloride (PVC)	3	4	1-2	1-2	4	4
Silicone adhesives	2-3	4	1-3	2-4	2	3

Raw material process compatibility examples, (from standard AAMI-TIR17:2008)

## Anprolene® gas sterilisation

Anprolene sterilisers are the most inexpensive and versatile sterilisers available. They operate at ambient temperature ( $\geq 20^{\circ}\text{C}$ ), sterilising loads up to 40-litres in 12 hours.

### Require a Larger Steriliser?



AN74ix  
vs.  
AN74i

With Anprolene you have the choice of using either the AN74i or the AN74ix. Both use the same gas kits so the cost per cycle is the same. The only difference is that the internal length of cabinet is 74cm for the AN74ix and 50cm for the AN74i. Not all vets are the same; large animal vets use devices that are larger than those used for operating on small animals. So, for instance, equine vets typically choose the AN74ix cabinet.

## EOGas®4

The EOGas Series 4 uses a heated cabinet, operating at 30-50°C, to sterilise loads up to 45-litres in 3 hours. Validated to achieve a Sterility Assurance Level (SAL) of  $10^{-6}$ .

### Require a Faster Steriliser?

If waiting until tomorrow is too long then the EOGas Series 4 steriliser might be for you. It is our fastest EtO steriliser, with a sterilisation and aeration cycle of just 3½ hours. The cost per cycle is around the same as for Anprolene.



### Exhaust Gas Abator

The customer may choose to pass the exhaust gases through an abator. The abator cartridge shown here absorbs over 99.9% of the EtO in the exhaust stream.

This may be required by a strict local regulation, or the customer may be venting the exhaust into the central waste gas system rather than directly to the outside. The unit uses a disposable cartridge, which will abate 200 cycles with 17.6g ampoules.



Anprolene AN74i connected to a AN5100 abator

### Safe for the Environment

EPA (Environmental Protection Agency) registered, a combination of purge and ventilation systems ensures that operators are not exposed to EtO.

Outside, the EtO reacts with moisture and forms biodegradable chemicals. The gas ampoule and sterilisation bags (and indeed the abator cartridge) may be disposed of as household waste.

### Cost / Benefit Case Study

Practices using our sterilisers report various cost savings, with the payback usually being around four months. A study with *Equine Clinique Meslay du Maine* recorded a saving of €32,000 per year. Using their Anprolene AN74i steriliser once per week, their savings of €2,710.50 a month were made up as follows:

Articles	Quantity	Cost/ €	Number of autoclave cycles possible	Savings per month/ €
Liga-Sure	2	550.00	-	1000.00
Cotton balls	10	10.05	-	100.50
Arthroscope	1	63600.00	100	63.60
Trocar	10	94.60	-	946.00