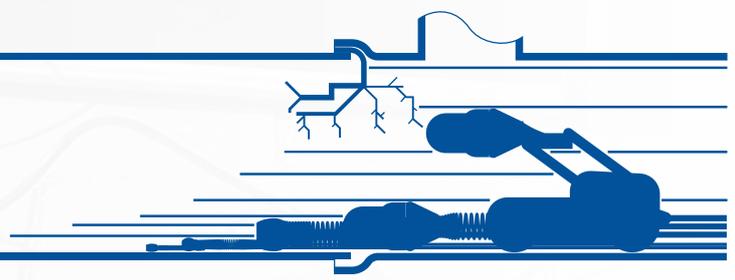




INSPECTOR®

Manual
Easysmoker

98326296



1. Content

	page
1. Content	1
2. Introduction	2
2.1 Application area	2
2.2 The complete system	2
2.3 Working with the system	2
3. Safety	3
3.1 Setting up & connecting the system	3
3.2 Electricity	3
3.3 Smoke liquid	3
4. Using the system	5
4.1 Before starting an inspection	5
4.2 Connecting the system	5
4.3 Using the system	5
4.4 Using the sealing bellows (accessory)	6
5. Maintenance	7
6. Service & Warranty	8
7. Specifications	9

2. Introduction

2.1 Application area

The smoke generator, from now on called Easysmoker, makes it possible to detect hard-to-find leakages. After you have blocked all the different sewer exits you can blow smoke into the sewer system by using the hose with quick-release connection which is provided with the system. The smoke will find its way out through the leakage. Using this principle will eventually lead you to the leakage.

2.2 The complete system

The system consists of the following components:

- Easysmoker
- Hose with coupling
- Power cord 230V

2.3 Working with the system

All parts of the Easysmoker are constructed from high quality materials and assembled with great precision. For optimal use of the system for a longer period of time maintenance is required. Within this manual you will find instructions and tips regarding:

- Safety
- Use
- Maintenance
- Service

3. Safety

3.1 Setting up & connecting the system

Mind the following aspects before setting up or starting up the system:

- Place the Easysmoker on dry and solid ground.
- Fill its storage tank with smoke liquid of Camtronics.
- The Easysmoker should be installed safely and kept away from inexperienced persons/children. Never leave inexperienced persons/children near this machine unattended
- Never point the discharged smoke directly to humans or animals.
- Never point the discharged smoke directly to open fire
- Remove the mains voltage when adding smoke liquid or cleaning the machine.
- Keep the discharge opening from any object, at a minimal distance of 50 cm. This discharge opening has a temperature of 300°C.
- Keep a surrounding space around the machine of at least 20 cm to provide air for sufficient cooling.
- Never cover the air inlet! This can cause dangerous situations, because of insufficient cooling of the generator.
- The Easysmoker is splash proof (IP44). The smoke generator is not waterproof and cannot withstand immersion

3.2 Electricity

The system operates on a 230V/50Hz current. Be sure that the system is set up in a dry environment.

In case of using an power generator be sure that the generator has a continuous output of 230V/50Hz. If you have any doubts about this do NOT use an generator.

We recommend: do NOT use an generator.

By using a wrong or instable electric current the system will be badly damaged and warranty will void.

Use always a power point which is **connected to ground**. When you do not use the system, be sure it is stored in a dry and ventilated room.

3.2 Smoke liquid

- Use only smoke liquid of Camtronics, other liquids can cause blockage of the heating element.

- Never blend any (and certainly no flammable) products with the smoke liquid
- A safety sheet of the smoke liquid is available. Contact your dealer for more information

4. Using the system

4.1 Before starting an inspection

- Before starting an inspection make sure that the sewer system, which you'd like to inspect, is blocked.
- Be assured, before using the Easysmoker, that it is filled with smoke liquid of Camtronics. Using the Easysmoker without smoke liquid will most certainly cause damage to the pump and heating element.

4.2 Connecting the system

- Connect the hose with coupling to the smoke generator.
- Connect the hose to the sewer system you'd like to inspect.
- Connect the power cord to a socket connected to ground.
- Be sure the switch "smoke" on the front panel is in the OFF position. This means the switch is pressed down at the lower side (text "smoke")

4.3 Using the system

- Switch on the system using the red on/off switch on the front panel. The indication light inside the switch will turn on.
- Then wait for minimally 10 minutes, to allow the Easysmoker to warm-up. The indicator light above the switch "smoke" will turn on when the Easysmoker reached its operating temperature and is ready for use.
- Push the "smoke" switch and the Easysmoker will start blowing smoke.
- Turn the rotary knob "smoke" to control the smoke intensity.
- Turn the rotary knob "air" to control the air flow.
- After use, switch the "smoke" switch to the off position (towards the text smoke).
- To release the Easysmoker and the sewer system from the remaining smoke push the switch "air" on the front panel until most of the smoke is cleared.
- Turn the Easysmoker off with the on/off switch and let it cool down for minimally 10 minutes.
- Remove possible condensed smoke (liquid) inside the coupling with a dry cloth.
- Remove possible condensed smoke (liquid) inside the hose.
- Keep the air hole in the cap open.
- Make sure you never use the Easysmoker without any liquid. The generator will run dry and can damage vital parts.

ATTENTION: Never connect the Easysmoker to a fully sealed/blocked system. The machine will be unable to discharge the smoke and causes the hose to overheat. This results into tearing the hose.

4.4 Using the Easyseal (accessory)

The sealing bellows Easyseal can be used in tubes and pipes with a diameter between 70 mm and 250 mm. It can be connected to the flexible hose which comes standard with the Easysmoker.



After connection the hose with the sealing bellows can be pushed into the pipe. Preferably provide for a smooth pipe wall to obtain optimal sealing. If the smoke generator is at operating temperature pressure can now be built up. The Easyseal will expand and fixate itself within the pipe, so that a complete sealing is obtained and further pressure build-up can take place.

5. Maintenance

Maintenance is a very important aspect. When the Easysmoker is maintained properly, possible failures and/or defects will be kept to a minimum. This will prolong the life of the system.

- A simple but effective tip is to keep the Easysmoker clean. This way, the chance of failure will be reduced. Take care that no dirt, smoke liquid or other residue remains into the coupling of the Easysmoker.
- Clean the outside of the Easysmoker with a moist and soft cloth, optionally with a (light) degrease liquid. **Never use any solvent** (for example thinner). Make sure the Easysmoker is cooled down before transportation.
- After about 40 hours of usage, but at least once a year, the smoke generator has to be flushed with distilled water. We advise you to have this done by your dealer.
- In case the generator has run dry (tank is completely empty) it has to be blown through. We advise you to have this done by your dealer.
- The Easysmoker should be stored in a dry and ventilated space, at room temperature
- We advise you to have your system checked at your dealer once a year. During this check-up the complete system will be reviewed and checked on its functioning, possible wear and safety.

6. Service & Warranty

For service on the system always contact your dealer.

- There are no parts inside the housing which you can maintain or repair yourself, consult your dealer.
- A certified engineer must do all service to the system. If any service is required you should contact your dealer first. Your dealer will care for any service, modification or repair of the system.
- If any services, modifications or repairs are done by the end-user (without permission of the dealer) or another third-party, warranty will void.
- Warranty and warranty time is depending on the terms of your dealer.

Warranty also voids on:

- Cable fracture.
- Short circuit (e.a. power input > 230V – 50Hz).
- Lightning stroke.
- Water damage.
- Inaccurate use or abuse of the system, including:
 - Usage without smoke liquid.
 - Using other smoke liquid then the smoke liquid of Camtronics
- In case you do not follow the instructions of this manual. Especially when maintenance is not performed (Chapter 5).

7. Specifications

dimensions (excl. handle)	45x22x35 cm
weight	18 kg
storage tank (built-in)	1,5 litre
air pressure	adjustable
smoke intensity	adjustable
smoke element	electric
warm-up time	8 min.
temperature	electronic controlled
quick connector (built-in)	50 mm
feet	rubber
power supply (mains)	230V
fan	1000 W
smoke element	1000 W
maximum power consumption	2000 W
maximum usage smoke liquid	1,8 litre/hour
maximum smoke capacity	5 m3/sec
maximum pressure	200 mbar
protection rating	IP44
temperature (usage)	-10 - 45 °C
temperature (storage)	-10 - 60 °C

All the specifications, construction specifications, way of act and illustrations in this manual are not strictly. We have the right to make an alternation to the manual without any announcement.

The Inspector® Easysmoker is a product of

Address: Camtronics BV
Ekkersrijt 3209
5692 CG Son
Phone: +31 499 494590
Fax: +31 499 494591
E-mail: info@camtronics.nl
Internet: www.camtronics.nl

