



Fire Training - the safe way

Fire Training

At MSS Professional we have worked tirelessly to ensure that our smoke machines create the most realistic yet safe dense smoke effects. They are designed for special training environments with both the Trainer 201 and 401 being water resistant. Through intelligent digital control, you can easily direct the quantity of smoke needed for each individual training scenario and also specify the length of hang-time the smoke is needed to stay in the air. All our machines use water-based smoke fluid which ensures the smoke is totally safe.

The Trainer 201 and Trainer 401 are two midsized machines that cover most training needs, from small to medium and even large training areas with the 401. Both machines offer continuous dense smoke output so you do not need to plan for breaks and the machines to reheat. The output can be controlled from a smooth low output to dense whiteout of dry smoke.

The Trainer 201 operates with a standard 2.5litre fluids container. A large fluid container of 9.5litre (2.5 US gallons) in the 401 ensures long operational periods without refilling during long training hours and/or large areas. The rugged on-board remote control is built with large push buttons, and designed to fit into the machine but still allows for easy removal.

For special applications the range also includes the Trainer 101 and Trainer X-Stream. The Trainer 101 is a hand-held smoke generator with an integrated battery giving total freedom of movement to the operator. Also this allows the operator an element of surprise when planning a trainer exercise; the unit can be easily hidden. When the battery is charged the machine does not require any heat-up time and fires instantly upon activation.

The Trainer X-Stream is the most versatile professional smoke generator available today. By incorporating the X-Stream Airflow System, the Trainer X-Stream blends smoke and air to produce a variety of effects. It has been designed to deal with the excessive rigors of training, with a rigid chassis, protected on all eight corners by 20mm aluminium plates, and 40mm lifting bars.

The Trainer X-Stream is fed by a massive 19-litre (5 US gallons) capacity. The Trainer X-Stream can also be used vertically. The secret behind the dense dry smoke with long hang times is the MSS Professional range of Trainer Smoke Fluids. The fluids are effective, safe and economical and when used correctly do not leave any residue.

All fluids are environmentally friendly and water based. They are made from the highest quality polyfunctional alcohols which are diluted with water and purified by double reverse osmosis and an electrostatic filtration process. Water is also purified during an ultraviolet treatment. This guarantees a virtually mineral and bacteria free product.



Danish fire brigades training exercises at Aarhus fire department (Denmark)



Fire Training



Aviation

Fire Training

You might think it is strange that we have put so much energy into making your fire training scenarios as uncomfortable as possible, but when the situation becomes real, we know you'll understand.

Aviation

MSS Professional has worked closely with the Civil Aviation Authority, the military and Air Force in developing the right solution to aviation training needs. With the versatility of our various smoke fluids, one machine can provide a number of smoke effects for the most accurate training scenario.





Shipping

Public Spaces

Shipping

Keeping your staff well trained through realistic simulations greatly increases their effectiveness if one day they are faced with the real thing. And if that time ever comes, effectiveness can mean the difference between life and death. MSS Professional has played a major role in the training of fire response on cruise lines, ferries, commercial shipping and even oil platforms.

Public Spaces

Hotels, schools and public buildings often rely on non-professional fire fighters to oversee the evacuation and initial response to emergency situations. These individuals need to be trained as realistically as the professionals. As there is often a high turnover of staff in these places, training needs to be simple, safe and cheap, which is exactly what MSS Professional machines give you.



	Trainer 101	Trainer 201	Trainer 401	Trainer X-stream
Heat Exchanger	400W Heat up time: 1 second Fail-safe thermal cut-out protection Operational time: Up to 10 minutes	1,000W Heat up time: 7 minutes Overheat protection: DTPD (Direct Thermal Protection Device)	1,500W Hi-Mass Vaporizing System Heat up time: 8 minutes Overheat protection: DTPD (Direct Thermal Protection Device)	2 x 2,500 W Heat up time: 18 minutes Overheat protection: DTPD (Direct Thermal Protection Device)
Effective Coverage		500 cubic metres/min Operational time: continuous (at reduced output)	1,000 cubic metres/min Operational time: continuous (at reduced output)	5,000 cubic metres/min Operational time: continuous (at reduced output)
Control	Hand held operation Variable smoke output level	Remote socket: 3 pin XLR Remote cable: 5 m On-board multi- functional timer remote with level control	Remote socket: 3 pin XLR Remote cable: 5 m On-board multi- functional timer remote with level control	Remote connection: 3 pin XLR
Electrical	Battery charger: 100 - 240V, 50/60Hz Output voltage 12V DC@1000 mA	Power consumption: 4,5A @ 230V 9,5A @ 120V	Power consumption: 7,0A @ 230V 14,0A @ 120V	Power consumption: 22,5A @ 220V
Measurements	Size: (LxWxH): 223 x 100 x 210 mm (8,8 x 4 x 8,2 in) Weight: 5,6 kg (12,3 lbs)	Size: (LxWxH): 500 x 225 x 165 (20 x 9 x 6,6 in) Weight: 11 kg (24,2 lbs)	Size: (LxWxH): 685 x 345 x 225 (27 x 13,6 x 8,9 in) Weight: 19 kg (41,8 lbs)	Size: (LxWxH): 1140 x 645 x 655 mm (45,6 x 25,8 x 26,2 in) Weight: 167 kg (367 lbs)
Fluid system	Fluid capacity: 0,25 litre Fluid consumption: 10 ml/min	Fluid capacity: 2,5 litre container Fluid consumption: 75 ml/min	Fluid capacity: 9,5 litre container Fluid consumption: 150 ml/min	Fluid capacity: 2 x 9,5 litre container Fluid consumption: 500 ml/min
Recommended fluids	Trainer fluid medium	Trainer fluid medium Trainer fluid heavy	Trainer fluid medium Trainer fluid heavy	Trainer fluid medium Trainer fluid heavy
Accessories	Remote control/radio controlled remote	Trainer 201/401 Ducting System (optional) - includes ducting adapter and 5m of 104mm diameter ducting. XLR extension cable 10 m.	Trainer 201/401 Ducting System (optional) - includes ducting adapter and 5m of 104mm diameter ducting. XLR extension cable 10 m.	Trainer X-stream remote. XLR extension cable.





Smoke Fluids

Trainer fluid medium

This medium mix is suitable for medium sized areas. A regular, dense, white airborne smoke is produced with a medium length dispersal time. Its medium to high index of refraction makes this formula ideal where a solid training effect is needed.

Available in 2.5 litre, 9.5 litre and 25 litre containers.

Trainer fluid heavy

The heavy fluid mix is the right choice if you need a very dense training smoke. It is more economical to use thanks to its incredibly long "hang-time" characteristics and can, in environments unaffected by extraction and air-conditioning, be expected to last 30% longer than other smoke fluids. It is particularly suitable for large areas where a thick smoke is needed.

Available in 2.5 litre, 9.5 litre and 25 litre containers.



Defining the fire training industry

MSS Professional is a manufacturer and distributor of computer controlled smoke machines for providing realistic yet safe smoke effects for controlled fire training scenarios.

Built on 20 years of smoke machine experience, MSS Professional is one of the most experienced suppliers of smoke training solutions. MSS Professional was established following the acquisition of Martin Security Smoke, March 2008.

MSS Professional also provides Instant Protection. For further information: www.smokecloak.com



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