



## Perimeter Protection System

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### System Overview

A **FireShield™** Perimeter Fire Suppression System is comprised of a number of strategically placed delivery heads, or nozzles that can spray a direct pattern of fire retardant onto a targeted structure or area. These delivery heads are fed from a holding tank containing the retardant. Once the **FireShield™** suppression system is activated by sensors or any of the activation methods, an Air-Powered Pump pressurizes the system and propels the fire retardant over the planned area of several hundred feet of a canyon for instance that needs to be protected.

The **FireShield™** is a truly “set it and forget it” system that does not rely on municipal utilities such as water, electrical, or other services, it is self contained and self supporting. **FireShield™** suppression systems utilize the phosphorous based fire retardants that are the safest, most effective and environmentally friendly retardants available today. These retardant are fully qualified by the Canadian Inter Agency Forest Fire Centre and the USDA.

There are several options to activate the **FireShield™** suppression system with our most advanced being the **FirePosse™** Early Warning Fire Detection and Integrated Security Solution. This option will detect fires from distant locations and will notify local command centers and activate the **FireShield™** perimeter spray system. It will also notify anyone included in the internal address list via text messaging and/or email and display the fire status on the command centre PC's. Details on the **FirePosse™** are available as a separate document.

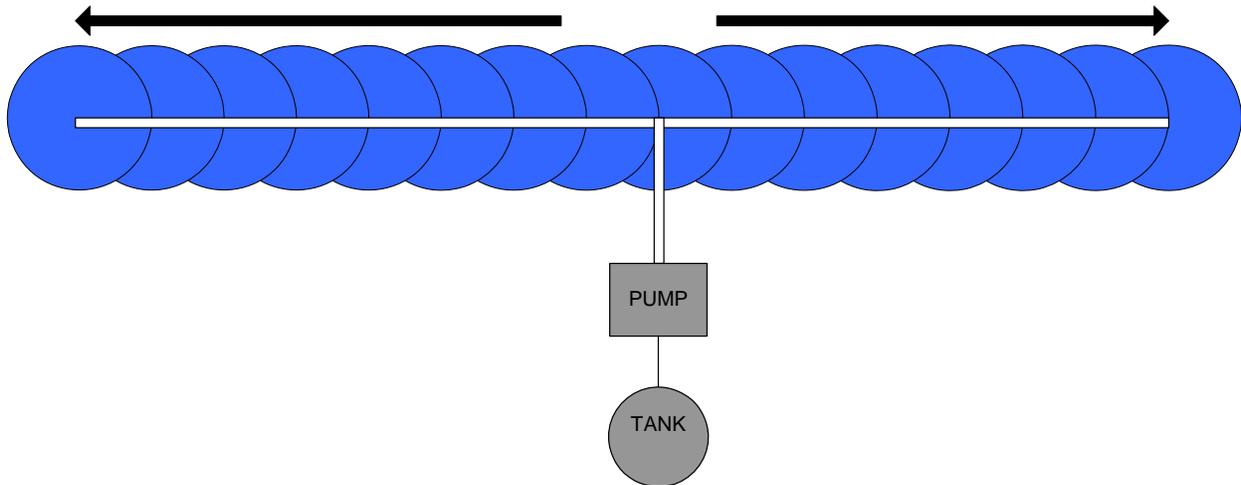
The **FS1000™** Activation option uses state of the art electronics and has power backup. The **FS1000™** may be used to activate the **FireShield™** spray system by manual pull station, key pad, telephone dialer, or a variety of contact closures.

The **FireShield™** Perimeter Fire Suppression System is comprised of five main components:

1. Retardant Holding Tank. A storage or retention tank located on a solid surface, concrete pad or slab that meets local building codes.
2. Inert Gas Cylinders. Cylinders of inert gas with a preset regulator and safety caps are secured to a metal platform and secured to the solid surface or pad.
3. Pump. An air-powered double-diaphragm non-metallic pump to supply fire retardant to the suppression system is secured to the metal platform and secured to the solid surface or pad. A superior non-metallic pump is used to prevent any corrosion to the system and gives several years of maintenance free operation.
4. Activation Devise. A device to activate the **FireShield™** perimeter suppression system which may be the fully automated **FirePosse™**, the **FS1000™** activation system, heat or flame sensor, telephone activation, remote activation such as a central monitoring

station, or any contact switch. We are able to activate the system with any combination of the mentioned devises.

5. Spray Nozzles. A number of strategically placed delivery heads that can spray a directed pattern of the retardant onto a targeted structure or area.



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