



Resources Worldwide, Inc.

FIRE PREVENTION & SECURITY SYSTEMS

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FIRE kills thousands of American each year, injures hundreds of thousands, destroys billions of dollars in property, and costs ten of billions of dollars overall, the media and the general public still are largely unaware of the magnitude of these numbers. Their lack of awareness and failure to realize the seriousness of fire to communities and the country are factors in keeping the U.S. fire problem one of the worst in the world per capita. FIRE killed more Americans than all natural disasters combined. There were almost two (2) million reported fires last year and more than 112 firefighters were killed in the line of duty.

CONSIDER THESE FACTS

- Losses for downtime after a major fire range from \$ 400,000 to \$ 1,000,000 per hour in lost revenues, depending on magnitude of event.
- 43% of businesses that suffer a significant fire never re-open again.
- Of the rest, 29% fail within 3 years, staggering statistics.
- Water can do as much physical damage as a fire, especially to high value equipment such as electronics and paper records.
- Disaster recovery, if possible ,is time consuming and expensive
- Because water is electronically conductive, it can cause current flow that damages sensitive equipment untouched by fire.
- Fire can and will destroy assets both tangible and intangible.
- Water sprinklers save buildings, NITRO GUARD saves the contents.

A unique, exciting, novel and revolutionary technique to protect enclosed facilities from FIRE has emerged, NITRO GUARD. In simple terms, it is impossible to create fire (ignition) while using Resources NITRO GUARD (reduced oxygen) Fire prevention system. This patent pending system will have an immediate affect on the multi-billion dollar fire industry that exists today; the system prevents fires from starting, allows continuous occupation by human beings, causes no secondary damages and offers extraordinary reliability. You will find that when the oxygen level is altered from ambient air to 15%, virtually all common ignition and combustion sources cease to function.

Resources fire prevention system will be used with water sprinklers as a complimentary fire protection. We save the contents while water protects and saves the structure.

If someone offered you medicine that would prevent you from ever being sick again, would you take it? PREVENTION is always better than any possible cure. An important advantage of Resources fire prevention system, over all other existing fire extinguishing technologies, is that our fire prevention agent is the air we breathe, endless supply, which is produced on site by equipment that consumes only electricity.

The fire protected facility is continuously ventilated with breathable hypoxic air (reduced oxygen.) This creates normal, or even improved hygienic conditions for the occupants, hypoxic air with normal humidity is provided for breathing. Fire prevention and control has long dealt with the familiar fire triangle consisting of heat, fuel and oxygen. All three of which are required to initiate and support combustion. It is also well established that nitrogen, constituting 79% of atmosphere air, can significantly influence combustion. Nitrogen molecules at common flame temperatures do not return the absorbed thermal radiation. Rather it is continuously removed from the combustion zone by the convection process. Because of this an increase of nitrogen concentration in the air causes a mass-proportional increase in the total loss of emitted thermal energy which inhibits combustion. Increasing the nitrogen content in the gaseous mixture affects its molecular kinetic properties reducing the availability of oxygen molecules for combustion. System is similar to air conditioning for delivery process.

Despite the best efforts of fire suppression engineers current fire systems are riddled with problems and may be deemed insufficient to protect against the myriad of fire threats. Heightened security concerns since 9/11 coupled with tightening environmental regulations governing fire-suppression devices has prompted the examination of current fire protection system. A search for innovations and new design concepts in the fire protection industry has led to Resources Fire Prevention NITRO GUARD system.

FIRE DETECTION

Part of this fire prevention system includes, ultra sophisticated air sampling fire detection devices that will be used to detect the invisible by-product materials which may degrade during the precombustion stages of an incipient fire. In operation, air samples of the controlled atmosphere are continuously drawn from the monitored (protected) environment, typically through a sampling pipe network with the aid of a high efficiency aspirator. Wiring used is a comprehensive fault tolerant closed 2-wire communications loop. It links the detectors, displays, programmers, and remote units on a daisy chain loop, which automatically detects communication failures. A software package allows the user to monitor, configure and control system from a central location.

COMPETITION

Our fire fighting agent is produced on site from ambient air; there is no need for transportation refilling or exchange of gas containers once prevention system is installed; prevention source, hypoxic air is unlimited. In simple terms, it is impossible to create fire

(ignition) while using oxygen-reduced NITRO GUARD. For a long time water has been the primary tool used to control structural fires. Water's crude method is to remove heat thereby reducing the flammability of fuel. However, with today's increasing property value and sophistication of equipment, facilities require not only higher level of fire-protection, but also prevention of water related damage, which system to new or existing water sprinklers. Resources now offers. Water sprinklers saves the building we save the contents. **WE WORK AS A COMPLIMENTARY SYSTEM TO WATER SPRINKLERS.**

Fire suppression with all the current methods of detection and extinguishing rely on one simple fact, a fire must have already started. No matter how good the fire protection is some damage will occur. Currently water sprinklers are the only system believed to provide reliable fire protection in enclosed facilities. However, sprinklers cannot prevent major and catastrophic fires. Furthermore, in the case of smaller fires, the inevitably damage to valuables is unavoidable. A small fire, even one contained to a limited area controlled by a conventional sprinkler system can create major problems in a critical operation control facility. Most sprinklers do not activate until the fire is already raging out of control. (CD available supporting this statement) The electrical conductivity of water based fire retarding agents can cause havoc with sensitive equipment, abrupt electrical shutdown often cause technological problems, and clean up and drying out processes can be futile.

APPLICATIONS OF FIRE PREVENTION

Computer and server rooms, electronic Data, casinos, Art galleries, Museums, university libraries, archive storage, steamship lines, distribution centers, freezer storage, tire warehouses, large yachts, naval vessels, ferries, military bases, ammunition vessels, factories, nuclear installation, terrorist targets, historical buildings, electric utilities, generator and turbine enclosures, legal documents, money, stocks, credit card companies, control towers, oil refineries, offshore drilling rigs, chemical plants & labs, hotel and high rise buildings escape routes, paint and resin manufacturers, electric tunnels, coal mines, hospital equipment, expensive homes, etc. Anything valuable you wish to protect.

FACTS

- Ability to handle complete range of flammable materials
- Complete absence of toxicity, stability under long term storage.
- No contribution toward stratospheric ozone depletion and global warming.
- No electrical conductivity, no metal corrosion, no residue left, it's simply air.
- In industrialized countries, the cost of fire damage and fire protection represents a significant percentage of gross national product.
- During the last years the United States and other countries have awakened to the threat of terrorist acts involving powerful explosives and the fires they create.