

MX 1230 CLEAN AGENT FIRE EXTINGUISHING SYSTEM

Protect sensitive property
and assets from fire damage with
**THE SMART TECHNOLOGY
FOR HALON REPLACEMENT**



ELIMINATE HALON RISKS WHILE SAVING SPACE AND CUTTING REPLACEMENT COST

Avoid expensive business interruption and the high cost of Halon system recharging with an optimized MX 1230 Clean Agent Fire Suppression System from Minimax.

The 725 psi High Pressure Advantage: Only from Minimax

Designing your system to use the smallest cylinder for the required quantity of agent saves money and floor space. Minimax uses specially designed storage tanks that are pressurized to 725 psi. Less tank volume for nitrogen is required, and tank size is greatly reduced.

High pressure creates a number of additional advantages. Suppression agent tanks can be located away from protected assets, freeing up even more floor space and lessening the need for personnel access. Pipe sizes can be reduced, because the 725 psi system can move up to three times more agent through the same size pipe as a 360 psi system. You can use longer pipe runs or smaller pipes and still deliver agent within the required 10 second discharge time. Utilizing high pressure for Halon replacement minimizes pipe modifications, reduces hard costs, and shrinks downtime for protected areas.

The Multi-Zone Option Protects Multiple Areas from the Same Cylinder Supply

Higher pressure 725 psi systems also make it possible to protect several areas from a single bank of clean agent cylinders. This can dramatically reduce installed costs, as a multi-zone system only requires enough agent to protect the largest area instead of the combined volume of all areas. Service and maintenance is also reduced compared to standard 360 psi single-zone systems.

Effective, Safe, and Environmentally Friendly

The MX 1230 System uses Novec™ 1230 from 3M™. This highly effective fire suppressant has low toxicity, an atmospheric lifetime of 5 days, zero ozone depletion and significantly lower global warming potential than other agents. (Halon has an atmospheric lifespan of up to 110 years and extremely high global warming potential.) Novec™ 1230 will not damage electronics and leaves no residue behind, which dramatically reduces clean-up and minimizes downtime of critical infrastructure.

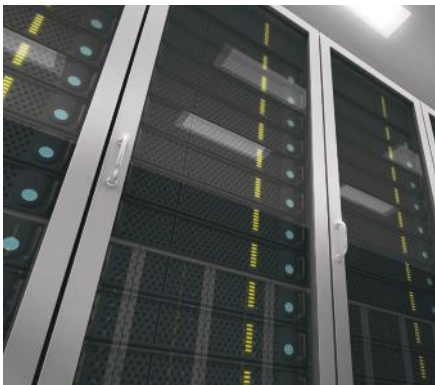
The 20-year 3M™ Blue Sky Warranty states that if Novec™ 1230 is banned from or restricted in use due to ozone depletion or global warming potential, 3M will refund the clean agent purchase price. (Refer to 3M for complete warranty details.)

Taking the Next Step

Technological advancements in clean agent delivery, specifically 725 psi high pressure systems, have changed the traditional view on the costs of Halon system retrofits. Lower costs, coupled with the increased business risks associated with Halon, are leading many to evaluate their strategies for protecting valuable assets and critical business infrastructure from fire.

The first step in evaluating a system replacement is to consult with a qualified fire suppression contractor who can provide technical guidance. Novec™ 1230 suppression and flow characteristics differ from Halon, and nozzle orifice size and minimum design pressures must be accurately specified to ensure homogeneous distribution of agent.

Call us today for ideas on how you can replace your Halon system while optimizing your risk management and return on investment.



The MX 1230 System is the ideal protection package for highly sensitive electronic equipment, control rooms, or archives.

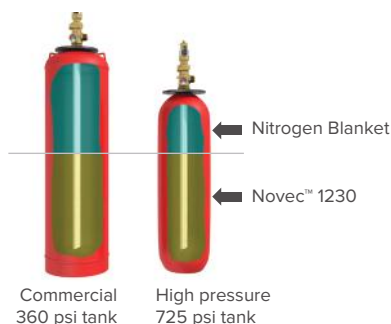
THE ANATOMY OF A MINIMAX MX 1230 MULTI-ZONE SYSTEM



The Minimax MX 1230 system is extremely flexible. The innovative multi-zone design saves space and reduces both installation and maintenance costs.

The 725 psi multi-zone system protects multiple areas from a single agent supply. The 725 psi cylinders are connected to a manifold pipe which runs into the selector valve manifold. Each zone is connected to a separate selector valve. If a fire is detected the control panel opens only the related zone selector valve to discharge agent into the affected zone. If the fire is detected in a different zone, the control panel opens the selector valve related to that zone. Only Minimax can provide the capability to protect multiple zones with a single agent supply.

- 1 MX 1230 cylinders connected to a manifold with connected reserve cylinder
- 2 Selector valves connected to two separate zones
- 3 Pneumatic pre-assembled control units allows use of standard control panels
- 4 Standard Control Panel
- 5 Pneumatic switch to change to reserve cylinder bank after a discharge of the main cylinder bank for uninterrupted fire protection
- 6 Pipes to protected zones



Pressurization to 725 psi greatly increases usable space for agent and allows smaller tanks.



Enhanced nozzle design is UL approved at increased design concentrations for heights up to 17' 9", eliminating the need for two levels of nozzles and pipe networks.

FIRE DETECTION AND CONTROL SOLUTIONS FROM MINIMAX

MX-2002 Conventional Agent Releasing Control Panel

The ideal solution for single and dual hazard agent releasing applications. Provides reliable fire detection, signaling and protection for commercial, industrial, and institutional buildings.

MX-320 Addressable Agent Releasing Control Panel

An intelligent, addressable panel with the MX-320 Central Processing Unit to meet virtually every application requirement. Designed for modularity and ease of system planning, the MX-320 can be configured for both single- and multi-zone releasing.

HELIOS Air Aspirating System

Detect even the smallest smoldering fire with the Helios AMX5000. This latest generation smoke detection system consists of one or two independent suction lines and one highly sensitive smoke sensor. The evaluation unit displays smoke concentration and alarm, fault, and status notifications. Any increase in smoke concentration is rapidly identified. Three pre-signal and one main alarm can be programmed and transferred to a fire panel for disposition.



MX-2002



MX-320



Helios AMX5000

discover...

MINIMAX FIRE PRODUCTS

For over 100 years, Minimax has delivered innovative solutions for the most demanding fire protection challenges around the world. Minimax Fire Products brings this capability to the North American market. We are part of the Minimax Viking Group, a leader in fire protection with over \$1.1 billion in sales and 6,000 employees. Our expertise in gas based fire detection and protection systems is supported by Viking SupplyNet's nationwide distribution and fabrication network, ensuring that you receive the best in system design and product availability from a single source.

Our Minimax research center in Bad Oldesloe, Germany works closely with test and standardization authorities to develop solutions often used as the basis for fire protection regulations and approvals. You can trust Minimax Fire Products to deliver the most reliable and cost-effective fire protection.

MINIMAX[®]

FIRE PRODUCTS

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