

MX 200 FIRE EXTINGUISHING SYSTEM

WITH HFC-227ea EXTINGUISHING AGENT

Safe, proven, and dependable
protection for high-value assets



PROTECT SENSITIVE ASSETS WITH ENVIRONMENTALLY SAFE MINIMAX® MX 200 SYSTEMS

Lost data, the breakdown of machines and equipment on which enterprise-critical business processes are dependent, or a total loss of operations – these risks are a concrete threat for every company. Businesses with unique and high-value technical equipment and central IT systems are dependent on the constant availability of critical operating resources. You have to rely on your fire protection system to minimize costly business interruption.

The Minimax MX 200 fire extinguishing system with HFC-227ea extinguishing agent detects fire in its initial stage and extinguishes exceptionally fast, flooding the room in less than 10 seconds. HFC-227ea provides an extra margin of safety for people, and leaves no residue, making it ideal for protection of sensitive assets.

High pressure capability for your special hazard needs

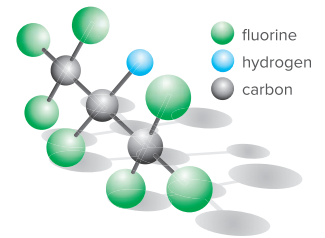
The MX 200 System can be individually adapted to suit nearly every area. Our unique charging pressures of up to 725 psi deliver higher fill ratios and longer pipe lengths. Hazard-specific design calculations optimize system components like nozzle bores and container fill volumes down to the smallest detail.

Simple and effective operation

When a fire is detected by one of the automatic detectors or when a pull station is activated, the fire detection control panel sets off a fire alarm. After a brief time delay the pressurized extinguishing agent cylinders are opened either electrically or pneumatically. The liquid extinguishing agent flows to the nozzles where it vaporizes, rapidly and effectively flooding the room.

Extinguishing agent HFC-227ea

HFC-227ea acts both physically and chemically. Its carbon, fluorine and oxygen molecule interrupts the combustion reaction by depriving the flame of heat. Colorless and almost odorless, it is widely used throughout the world due to its environmental properties, and is the standard in many countries for managing IT and electrical risks. HFC-227ea is suitable for class A, B, C fires and is used as a total flooding agent. It is neither corrosive nor electrically conductive and will not cause damage through short circuits or residues left on sensitive components.



HFC-227ea Molecule



725 psi systems make it possible to locate agent supply away from the protected area.



EXTINGUISH FIRES RAPIDLY WITH NO RESIDUE

Personal Safety

HFC-227ea has an outstanding safety factor, reaching a NOAEL value (No Observed Adverse Effect Level) of 9%. In its plan for new alternative extinguishing agents (SNAP Program, or Significant New Alternatives Policy Program), the Environmental Protection Agency certifies HFC-227ea as acceptable for occupied areas.



HFC-227ea*	
Chemical formula	CF ₃ -CHF-CF ₃
Chemical name	Heptafluoropropane
ISO designation	HFC-227ea
Specific weight 68° F (20° C)	3.04 lbs/gal (1.41 kg/l)
State of aggregation	gaseous at 68° F/14.69 psi (at 20° C/1.013 bar)
Boiling point	2.3° F at 14.69 psi (-16.5° C at 1.013 bar)
Environmental properties	No ozone depletion potential (ODP 0) global warming potential (GWP 3500)

*DuPont™ tradename FM-200®

Applications

- Data processing and telecommunications facilities
- Computer and server rooms
- Historical and cultural properties
- Control rooms
- Medical facilities
- Any environment sensitive to water or foam-based suppressants



Enhanced nozzle design to generate high velocity spray patterns and effective agent discharge.



MX 200 UNIQUE SYSTEM ADVANTAGES

- World-wide recognized and approved extinguishing agent
- Systems optimized with professional MX DesignManager™ calculation software
- No extinguishing agent residues, neither corrosive nor electrically conductive
- Rapid extinguishing, extremely safe for occupied areas
- Robust design with low installation and maintenance costs
- Compact and space saving
- UL/FM approved system
- Higher operating pressures of 725 psi provide:
 - Greater fill ratios
 - Longer pipe lengths
 - Smaller pipe diameters

Design flexibility for any special hazard environment

- Available cylinder sizes/nominal fill: 55, 130, 270, 370, and 450 lbs
- Pressures available: 360, 725 psi
- Single- or multi-cylinder systems



Minimax can provide multi-cylinder systems to protect any special hazard area

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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