

## FM - 200 Fire Extinguishing System

### What is FM 200



FM 200 is a Colourless, Odourless Gas containing only Carbon, Hydrogen and Fluorine, thereby lacking the Ozone, depleting presence of Bromine Atoms. Highly penetrative and achieving an homogeneous dispersion in the hazard zone. It acts on fires largely by physical means, lowering the temperature of the flame and fuel to a point at which combustion reactions cannot be sustained. There is no significant obscuration on discharge and this non-corrosive and electrically non-conductive Agent causes no damage to Sensitive Equipment with no post discharge clean-up required.

### Benefits

- Fast and effective against a wide range of Class A, B and Electrical Fires
- Safe for occupied areas
- Non-corrosive and electrically non-conductive
- No-post discharge residue, no clean-up required
- Environmentally acceptable
- 25 Bar System
- Engineered and Pre-Engineered Systems available
- Range of System release options
- Low Installation & Maintenance Costs
- Computer Design Maximizes effectiveness of System
- LPCB Approved Systems available on request
- Marine Systems available

### Description

FM-200 is a Clean Agent Fire Suppression System that protects high value assets from fire and the effects of fire-fighting, allowing normal operations to be resumed quickly with no collateral damage and clean-up costs. Eurotech Fire Protection is at the forefront of new technologies in fire safety, offering a range of state-of-the art Fire Extinguishing Systems.

This Fire Extinguishing System utilize FM-200 a Gaseous Extinguishing Agent manufactured by DuPont, which has emerged as the most viable alternative to Halon 1301 on the basis of extensive trials. FM-200 is fast and effective with a low space/weight characteristic which is also environmentally acceptable and safe for exposure.

FM-200 has been adopted by the majority of the world's Fire Protection Companies and is the most widely used Clean Agent Fire Suppressant, with tens of thousands of Systems, installed across the Globe.



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## FM - 200 Fire Extinguishing System

### System Design

The system comprises a versatile range of cylinders, valves and related components which have been selected for use with FM 200 and have been subject to stringent testing procedures. Flexibility, quality and reliability make the Eurotech Fire Protection range the world's finest in fire safety and the equipment is approved by FM Global and UL listed and tested for compliance to UL 2166.

Both engineered and pre-engineered system are available. The pre-engineered system offer a low engineering design cost option with defined maximum design parameters. Engineered systems offer optimum designs for the defined risks with reduced pipe sizes, unbalanced flows and common room and void protection possible.



Pressure Operated  
Control Head



Electric Control  
Head (Stackable)



Electric Control Head



Electric & Cable Operated  
Control Head



Lever Operated  
Control Head



Lever & Pressure  
Operated Control

### The Environment

FM 200 has a zero ozone depletion potential and a short atmospheric lifetime. When used in fire event FM 200 mitigates the effect of an uncontrolled fire and at the end of the lifetime of system, the gas can be readily recovered and recycled.

### Safety to Personnel

A significant body of toxicity data has been obtained for FM 200 from over 70 studies. The US environment Protection Agency and the UK Halon alternative group accepts the use of FM 200 in occupied spaces up to 9% concentration without mandated egress times and up to 10.5% with mandated evacuation times. Since the agent does not act by oxygen depletion in the hazard zone, it poses no human asphyxiation threat.

### Cylinders

Eurotech Fire Protection Systems are designed to conform to NFPA 2001 and ISO 14520 requirements. An emphatically verified Windows based computer programme is used to model two phase agent flow and ensure that the correct concentration of agent is achieved within 10 seconds throughout the protected zones as required by the NFPA and ISO Standard.



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