



FM-200* Piston Flow

HYGOOD FM-200 Piston Flow Clean Agent Fire Suppression System

- Environmentally Friendly
- Safe for People
- Fast Acting
- Compact Storage
- International Approvals

Overview

The HYGOOD FM-200 Piston Flow Clean Agent Fire Suppression System is designed to deliver FM-200 agent – a safe, environmentally friendly clean agent that has a proven track record – to help in the protection of people and high value assets.

The HYGOOD FM-200 Piston Flow Clean Agent Fire Suppression System is a new technology intended to allow extension of the pipe length in the fire extinguishing system. The system consists of a FM-200 container with agent pressurised to 25 bar and a supporting nitrogen container pressurised to 80 bar to enhance the discharge of the agent.

Protecting our world

With a conventional stored pressure FM-200 system, the design of some systems could be very challenging due to the distance between the position where the FM-200 container would be remotely stored and the hazard to be protected. The main cause of this problem is generally the amount of nitrogen pressure available in a conventional stored pressure FM-200 container.

However, HYGOOD FM-200 Piston Flow Clean Agent Fire Suppression System can discharge FM-200 agent within 10 seconds over long distances by providing additional nitrogen from support cylinder and preventing rapid decline of pressure within the FM-200 container head space. This new technology is designed to make possible longer distances, between the storage container room and the areas that require fire protection.

The system is intended for total flooding application covering multiple and long-distance protected areas. The system enables design of up to 122m (400ft) piping for protected areas and is a highly configurable system which can save significant equipment costs by installing a single system to help protect against multiple hazards.

The system is designed to provide a reliable, fast acting, clean agent solution that is safe for use in occupied spaces. The system is environmentally friendly with zero ozone depletion potential (ODP).

Playing safe

The use of FM-200 as a fire suppressant is not prohibited by the Montreal Protocol. It is a clean agent that belongs to a class of compounds that was introduced specifically to facilitate the phase-out of ozone depleting gases, such as Halon 1301. It is the most widely used of the chemical replacements for Halon 1301. It is an agent that has been used successfully to help protect tens of thousands of high technology facilities in 70 countries around the world.

**FM-200 is a trademark of
Chemours Chemical Corporation.*



FM-200 applications

- Data Centres
- Telecommunications Centres
- Marine
- Medical Facilities
- Heritage Sites
- Air Traffic Control
- Oil and Gas Facilities

HYGOOD FM-200 Piston Flow Clean Agent Fire Suppression Systems can be ideal for use in occupied areas. Independent toxicity studies have established that the agent is low in both acute and chronic toxicity with high safety margins between its normal use concentrations and the No Observable Adverse Effect Level (NOAEL).

Fast acting suppression

The systems are designed work quickly to rapidly absorb heat to the point where combustion ceases. Once actuated, HYGOOD FM-200 systems are designed to deliver the extinguishant within 10 seconds, helping suppressing fires before they have the chance to spread. When a fire is suppressed quickly, the results are generally less damage, lower refurbishment costs and reduced downtime.

Compact low pressure technology

HYGOOD FM-200 Piston Flow Clean Agent Fire Suppression Systems are compact, operate at 25 bar at 21°C and have been designed and developed based on independently witnessed fire tests. It has been designed to achieve homogeneous distribution of agent, complying with international standards and meeting the requirements of numerous approval agencies worldwide.

System recharging

The product is supported by a global network of FM-200 refilling facilities

Benefits

- // Designed to discharge the FM-200 agent within 10 seconds over long distances
- // Colourless, odourless, non-contaminating gaseous fire protection
- // Designed to help protect critical assets and processes
- // Safe to use in occupied areas
- // FM-200 has been tried and tested through thousands of installations around the world
- // Proven technical service support