



Data Centers

CHALLENGE:

Protecting business critical information, business continuity and people

SOLUTION:

ANSUL® FM-200™ Clean Agent Fire Suppression System

APPLICATION:

Protecting enclosed spaces with minimal environmental impact through rapid detection and system actuation

In high-risk environments such as data centers, a robust and reliable fire suppression solution is essential to safeguard costly equipment and valuable data. The use of water-based solutions could lead to irreparable damage to servers and the loss of irretrievable data, meaning that it could take weeks or even months for the facility to return to full operational capacity.

The ANSUL FM-200 Fire Suppression System provides an innovative, clean agent solution that suppresses fire safely and quickly, helps to ensure continuity of operations, and delivers effective asset protection for data centers. The system utilizes FM-200 (HFC-227ea) fire extinguishant, a clear compressed gas stored as a liquid (under pressure) that vaporizes upon discharge and absorbs heat to rapidly suppress fire. This results in less damage to sensitive and critical equipment, facilitating a shorter recovery time and reducing downtime. The system has zero ozone depletion potential (ODP) and the use of FM-200 agent as a fire suppressant is not inhibited by the Montreal Protocol.

The ANSUL FM-200 system is most effective when used with the automatic AUTOPULSE Detection and Control System to introduce the clean agent rapidly. This detection system is used to actuate a single, fixed fire suppression or alarm system based on inputs received from fire detection devices. The detection circuits can be configured using cross, counting, independent or priority-zone concepts.

Both automatic and manual actuators are available for release of the agent into the hazard area through fixed piping and nozzles. Seven nozzle sizes are available to provide the correct flow of agent in either 180 or 360 degree horizontal discharge patterns. For large hazards, cylinders can be connected to a common manifold.

The ANSUL FM-200 system carries major approvals including UL, ULC and FM as well as USCG and ABS marine approvals. The system can be designed to meet the requirements of NFPA 2001, ISO 14520 and EN15004.