How to design the best fire protection for your vessel in one easy step...

Step 1: Select a Kidde FM-200® Fire Suppression System

If you’re building a new vessel or retrofitting a halon system on an existing one, the best fire protection decision you can make is to select a Kidde FM-200 Fire Suppression System. Here’s why:

**Life Safety.** The FM-200 clean agent works by interrupting the fire on a molecular level, not by taking oxygen from the protected space. So it is the preferred fire suppression agent for protection of shipboard spaces where crew or other occupants may be present.

**Marine Approvals.** Kidde FM-200 Systems are approved for use in marine applications such as machinery spaces and flammable liquid storage areas by major regulatory agencies such as UL, FM, LPC, USCG, ABS, DNV, MCA, TC and AMSA.

**Weight.** Kidde FM-200 Systems weigh less than either carbon dioxide or water mist systems. So they provide more fuel-efficient solutions to shipboard fire protection.

**Space.** Kidde FM-200 Systems take up less space than other types of fire suppression systems. This means more room for revenue-generating cargo or passengers.

Before you leave port, make sure you’ve installed the right fire suppression system. A Kidde FM-200 System. Designed, installed and serviced by the worldwide network of Kidde fire protection specialists.
GENERAL DESCRIPTION

Kidde FM-200 ECS Series engineered fire suppression systems are used to suppress fires in specific hazards or equipment where an electrically non-conductive agent is required, where agent cleanup creates a problem, where extinguishing capability with a low weight is desired and where the hazard is normally occupied. Kidde FM-200 systems are intended to protect spaces containing the following hazards:

- Class A - surface type fires—wood or other cellulose type material
- Class B - flammable liquids
- Class C - energized electrical equipment

FM-200 EXTINGUISHING AGENT

FM-200 (1,1,1,2,3,3,3-heptafluoropropane) is a compound of carbon, fluorine and hydrogen (CF₃CHFCF₃). It is colorless, odorless and electrically non-conductive. It suppresses fire by a combination of chemical and physical mechanisms without affecting the available oxygen. This allows personnel to see and breathe, permitting them to leave the fire area safely. FM-200 has acceptable toxicity for use in occupied spaces when agent concentration is in accordance with NFPA 2001, and the applicable rules of the International Maritime Organization (IMO) and US Coast Guard.

FM-200 SYSTEM HARDWARE

FM-200 is stored in steel cylinders superpressurized with nitrogen to 360 psig. The cylinder valve assembly is equipped with a supervisory pressure switch connection for monitoring cylinder pressure. A pressure gauge and a safety disc are fitted to the valve in accordance with DOT requirements. Other system components include mounting brackets, control heads, pull stations, pilot cylinders, flex hoses, discharge delays, sirens, check valves, nozzles, etc. System controls can be configured to comply with all marine regulatory requirements. FM-200 piping design is accomplished with Kidde flow calculation software which performs the complex flow calculations necessary to maximize agent distribution with a discharge time of ten seconds or less.

MARINE APPROVALS

In addition to land-based approvals, the Kidde FM-200 ECS Series engineered fire suppression system is approved by the marine regulatory bodies listed below. More marine approvals are pending.

- US Coast Guard
- American Bureau of Shipping (ABS)
- Maritime and Coastguard Agency (UK)
- Det Norske Veritas (DNV)
- Australian Maritime Safety Administration
- Swedish Maritime Administration
- Norwegian Maritime Directorate
- New Zealand Maritime Safety Administration

SYSTEM DESIGN, INSTALLATION, SERVICE

Kidde FM-200 systems are available through a global network of qualified distributors. Our distributors can provide the services—design & installation, retrofit, recharge, and maintenance—necessary to keep your Kidde system functioning properly and in compliance with marine fire protection regulations.