

AEROSOL FIRE SUPPRESSION SYSTEM



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Aerosol Technology



Aerosol Technology provides a cost-efficient and reliable solution for protecting special hazard fire risk areas. This advanced suppression technology can reduce overall equipment and lifecycle costs by up to 35% compared to conventional fire suppression systems. The savings come from lower installation costs, minimal maintenance requirements, and reduced long-term servicing expenses

KEY FEATURES

- Fast fire detection and suppression
- Compact and space-saving design
- No pressurized cylinders required
- Maintenance-free operation
- Environment-friendly technology
- Safe for electrical and electronic equipment
- Long service life
- Easy installation
- Low operating cost
- Automatic and manual activation options

TECHNICAL SPECIFICATIONS

- Activation Temperature: 170°C to 300°C
- Operating Voltage: 12V / 24V DC
- Discharge Time: 5–30 seconds
- Operating Life: Up to 15 years
- Operating Temperature: -40°C to +90°C

APPLICATIONS

INDUSTRIAL APPLICATIONS :

- Electrical control panels
- CNC machines
- Power distribution panels
- Transformer rooms
- Generator rooms

TRANSPORTATION :

- Vehicles
- Marine systems
- Railway applications

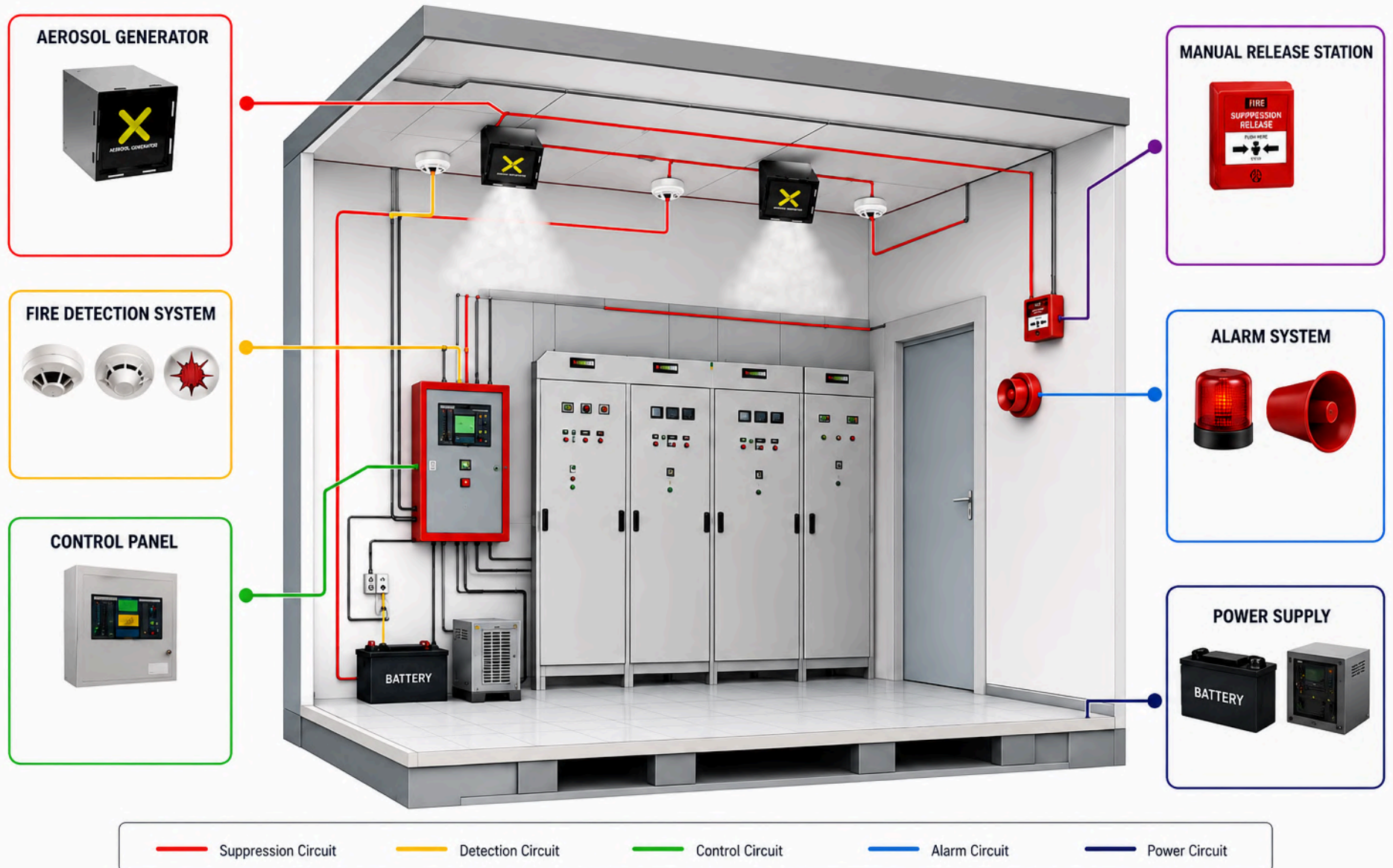
COMMERCIAL APPLICATIONS :

- Server rooms
- Data centers
- Telecom rooms
- UPS rooms

ENERGY SECTOR :

- Battery energy storage systems (BESS)
- Solar power systems
- Wind turbine cabinets

AEROSOL FIRE SUPPRESSION SYSTEM ARCHITECTURE



MAIN COMPONENTS

- **Aerosol Generator**
Produces fire suppression aerosol agent.
- **Fire Detection System**
Includes smoke detectors, heat detectors, or flame detectors.
- **Control Panel**
Monitors the system and activates suppression automatically.
- **Manual Release Station**
Allows manual activation during emergencies.
- **Alarm System**
Provides audio and visual warning signals.
- **Power Supply**
Ensures uninterrupted system operation.

WORKING PRINCIPLE

- Fire is detected by heat or smoke detectors.
- The control panel activates the aerosol generator.
- The generator releases condensed aerosol particles.
- Aerosol interrupts the combustion process.
- Fire is extinguished within seconds.



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