

# VEHICLE FIRE SUPPRESSION SYSTEM

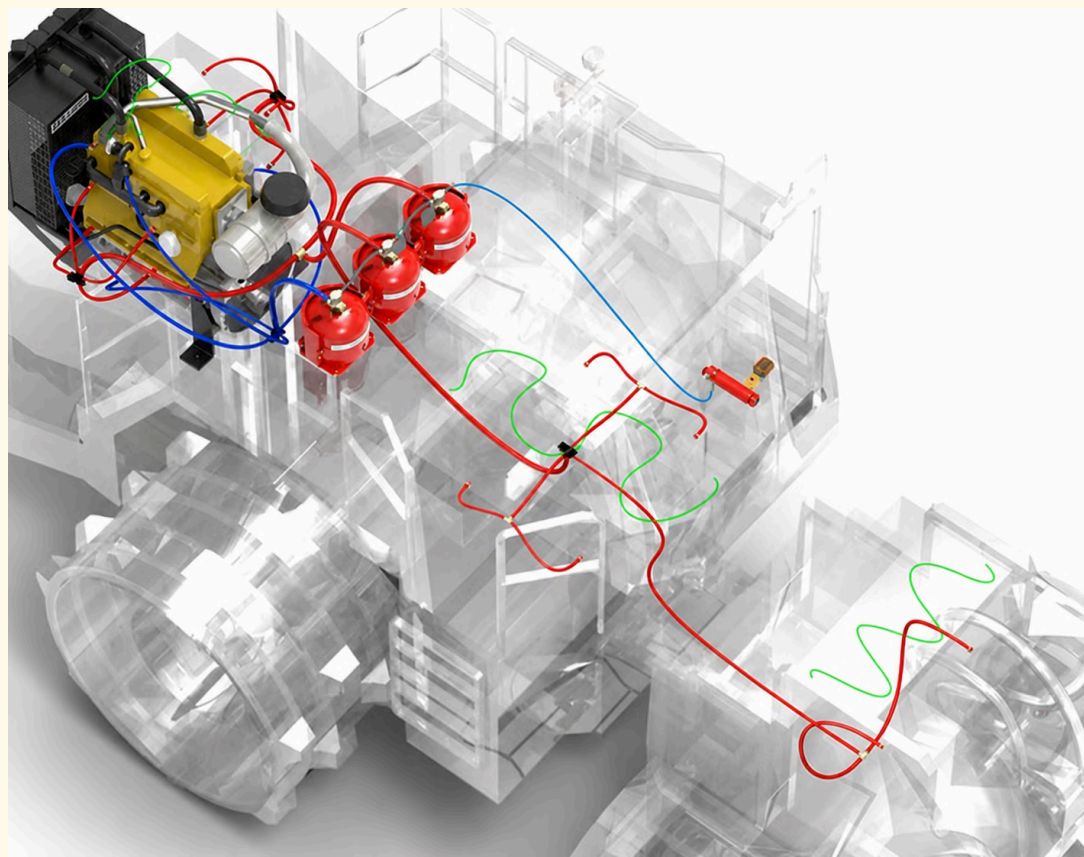


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A **Vehicle Fire Suppression System (VFSS)** is an automatic fire protection solution designed to detect and suppress fires in vehicles before they spread and cause severe damage. These systems are specially developed for high-risk vehicles such as buses, trucks, mining vehicles, construction equipment, defense vehicles, electric vehicles, and heavy machinery.

The system provides rapid fire detection and automatic extinguishing using aerosol, clean agent, foam, or dry chemical technology.

## SYSTEM WORKING PRINCIPLE

### Step 1 – Fire Detection

The system detects fire using:

- Heat detectors
- Linear heat detection tubing
- Smoke detectors
- Flame detectors

### Step 2 – Alarm Activation

When fire is detected:

- Audio and visual alarms activate
- Control panel processes the signal

### Step 3 – Automatic Suppression

The suppression agent is discharged automatically into the fire zone.

### Step 4 – Fire Extinguishment

The agent suppresses fire by:

- Cooling
- Oxygen displacement
- Interrupting the combustion chain reaction

## APPLICATIONS

- Public Transportation
- Commercial Vehicles
- Heavy Equipment
- Mining Industry
- Defense & Special Vehicles
- Marine & Rail

## TYPES OF VEHICLE FIRE SUPPRESSION SYSTEMS

### Aerosol Fire Suppression

- Compact design
- Maintenance-free
- Ideal for electrical and engine compartments

### Foam-Based System

- Excellent for fuel fires
- Common in mining and heavy vehicles

### Clean Agent System

- No residue
- Safe for electronics and electrical systems

### Dry Chemical System

- Fast flame knockdown
- Suitable for industrial vehicles

## MAIN COMPONENTS

### 1. Fire Detection Tube

Sensitive tubing detects high temperature and bursts at the fire point.

### 2. Suppression Cylinder

Stores suppression agent under pressure.

### 3. Control Panel

Monitors system status and activates suppression.

### 4. Nozzles

Discharge suppression agent effectively over the hazard area.

### 5. Alarm & Indicator

Provides audible and visual warning.

### 6. Manual Release Unit

Allows manual activation during emergencies.

### 7. Pressure Gauge

Monitors cylinder pressure.

## KEY FEATURES

- Automatic fire detection
- Rapid suppression response
- Compact installation
- 24/7 protection
- Low maintenance
- Reliable performance
- Weather-resistant components
- Easy retrofitting
- Manual override facility



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