

Dust Collector Fire Suppression Systems

Fire suppression systems are highly recommended for all industrial dust collectors due to the significant fire and explosion hazards associated with many dust types. There are two main types of fire suppression systems used on dust collectors today: water sprinkler systems and CO₂ gas systems*. A fire suppression system may be used with an automatic damper system to shut off incoming oxygen to the dust collector.

* **Note:** New FM-200 and other clean agent gas systems can no longer be installed due to American Innovation and Manufacturing (AIM) Act requirements for phasing out hydrofluorocarbons (HFCs). Existing installed systems can be supported through 2036.



Water Sprinklers: Uses water to extinguish fires

Pros:

- Simple and cost-effective
- Completely extinguishes fire

Cons:

- Messy; may cause damage to nearby equipment/property
- Requires hookup to water source
- Not suitable for metal dusts or electrical fires

Suitable for:

- All class-A fires
- Organic dust types

CO₂ Gas Uses carbon dioxide to displace oxygen and suppress fire until first responders arrive

Pros:

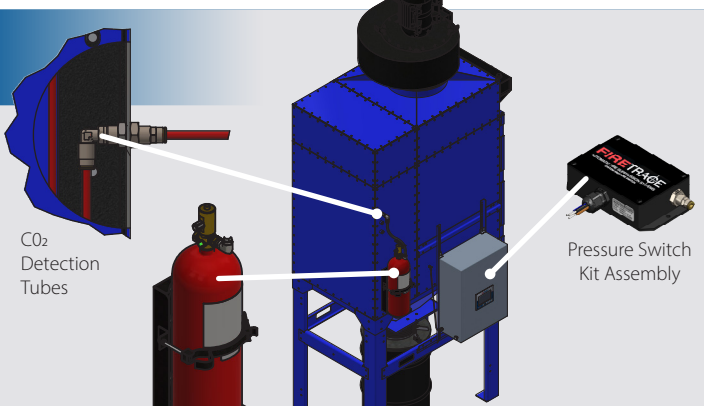
- Does not leave residue or damage
- Safe for electronics

Cons:

- CO₂ gas is not safe for humans or animals to breathe in enclosed spaces
- Requires an automated damper system

Suitable for:

- Class A, B and C Fires
- Dust collector located outside/unoccupied areas



RoboVent Equipment that Supports these Features



Senturion: Tough, versatile and ready for anything. Our flagship dust collector. Perfect for high-production applications and heavy dust loads from any metalworking process.

- Robotic welding
- Laser/Plasma cutting
- Grinding/polishing/finishing
- Thermal spray
- Bulk & powder



Spire® Series: Powerful Filtration. Small Footprint. Specially designed for robotic welding. Available in three CFM ratings for maximum versatility.

- Robotic welding



FlexPro® Hi-Vac: Versatile Weld Fume Extraction. Perfect for robotic tip extraction or manual welding with fume guns or suction tubes.

- Robotic Welding
- Manual Welding