

We set the standard in safety

EV charger protection

Prevent costly damage
to your facility.



As the demand for larger energy sources grows, so does the risk of electrical incidents. From faulty wiring and electrical surges to overheating batteries, these fire risks create an environment ripe for ignition – threatening valuable assets, compromising insurance premiums, and putting personnel at risk.

Targeting the hazard at source is therefore crucial. This is where Ardent's direct fire suppression system comes in.

Why Ardent direct fire suppression systems?

In enclosed EV chargers, it can be difficult to detect a fire before the damage is already done. When every second counts, our automatic fire suppression system delivers rapid fire detection and suppression, right where it's needed most – minimising damage to your assets within a matter of seconds.

Don't let fire take the wheel.



Clean and safe agents

Our clean agent is a next-generation halon alternative. It's non-corrosive, non-conductive, and marries outstanding extinguishing performance with a remarkably low environmental impact. Bringing a large margin of safety too, this is an ideal solution for special hazards fire protection.



No power required

Our direct systems operate independently of any mains electricity source (unless adding a sounder beacon to alert), ensuring round-the-clock, uninterrupted protection for your high-value assets.



Built to endure

Our high-grade detection and distribution tubing is tested to the highest possible standards and is tolerant of dirt, debris, and harsh operating conditions.



Cost-effective solutions

Our systems minimise potential cabinet and infrastructure downtime and can be quickly reinstated after deployment, delivering exceptional value without compromising on safety.

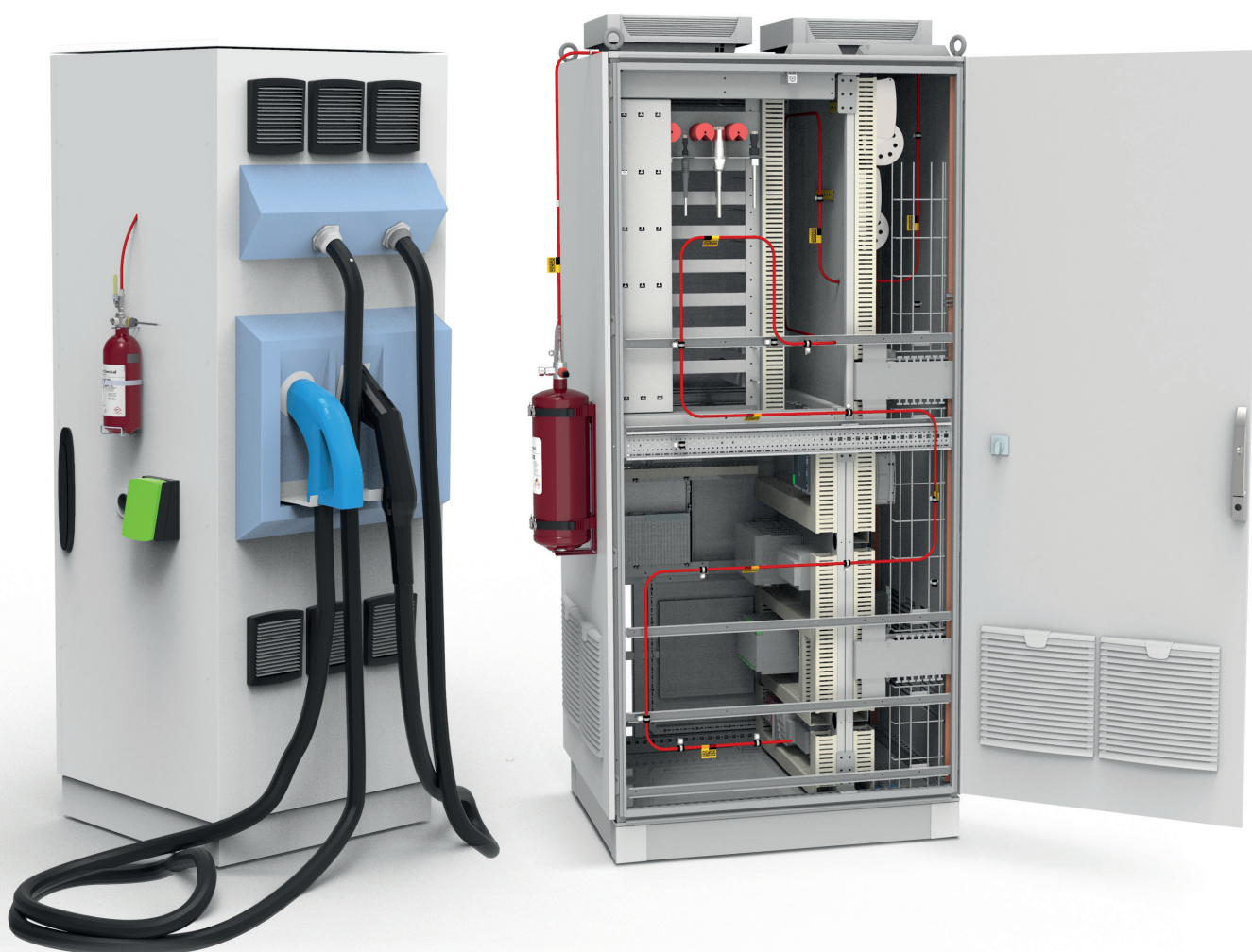
Meanwhile, clear installation and maintenance instructions ensure these systems continue to facilitate the highest standards.



Complete peace of mind

Backed by over 30 years of experience and trusted by operators, OEMs, and people across the world to protect their people and assets, Ardent takes care of all aspects of fire protection. So, you have complete confidence that your facility is safe.

EV charging units and electrical cabinets



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How does the system work?

Detects high temperatures, fast

Flexible detection tubing is routed around the high-risk areas within an electrical enclosure and connected to the fire suppression system. The system can be configured to protect multiple adjoining cabinets, covering several enclosures simultaneously.

Activates the system

Pressured with nitrogen gas, the tubing is designed to rupture when exposed to high temperatures, initiating the release of the suppression agent.

Suppresses in seconds

By targeting the heart of the fire, at the point of rupture, the suppression agent gets to work in a matter of seconds. It evaporates cleanly after deployment, without leaving residue, and automatically suppresses the source of heat.

Pressure gauge confirms readiness

The pressure gauge located on the cylinder valve will be visible in the green segment to confirm the pressure of the system is adequate and ready for normal use.

When a fire breaks out, there is no room for second measures. Talk to our technical team about your unique fire hazards, and we'll recommend the most effective suppression solution to protect your personnel, fleet, and facility 24/7.

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What can Ardent direct fire suppression systems protect?

- ✓ Electrical equipment enclosures
- ✓ Electric vehicle chargers
- ✓ Generator enclosures
- ✓ Transformer cabinets
- ✓ Data processing enclosures
- ✓ Flammable chemicals storage
- ✓ Wind turbines
- ✓ Many other applications

Key technical specification

Ardent direct fire suppression system

Fire detection method	Linear heat detection tube
Extinguishing agent	F 5-1-12
Cylinder capacity	2 kg, 4 kg, 6 kg, 9 kg
Cylinder construction	Mild steel with corrosion-resistant paint (RAL 3000 polyester powder coating)
Cylinder operating temperature range	-20°C to +60°C
Discharge time	8 to 14 seconds
Charge pressure	15 bar at 20°C

For the complete technical specifications and operating instructions, please refer to the system manual.

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To find out how we can help
you protect your people and
equipment, call our team on
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