



# Corporate Brochure



## About us

Built on customer needs and demands, AIRfire has made its way on the market as a strong and reliable contender providing complete fire safety needs to the Italian market and guaranteeing close human support 24/7, 365 days of the year. Since 2012 under the AIRfire Worldwide brand, the same philosophy is being applied for the complete range of gaseous fire suppression systems on the international market.

The aim of AIRfire Worldwide is to position itself as one of the most recognized companies in the international fire safety industry, engaged in designing and producing reliable, high quality and competitive fire suppression systems (INERTS, CHEMICALS, CO2 and ARMANfire) according to the market needs and evolving with the continuously changing global demands. Able to focus on individual customer demands and provide shorter lead times, no project is too small or too big, people and assets need to be protected.

To help spread our way of working, the aim is to create a recognized international network of reliable distributors and installers, who will be trained on our products and will be able to give all the necessary support to fulfill Customers' expectations. Customer proximity, fast and competent solutions will always be at the centre of AIRfire Worldwide way of doing business. These are the elements that differentiate us from the rest of our competitors.



## Group

AIRfire S.p.A is a family business founded in the second half of the 70s by Armando Evangelisti in Rome (Italy) with the aim of specializing in fire safety and protection in civil, industrial and military sectors on the Italian market.

Thanks to many years of experience, continuous Research and Development of effective solutions and the great ability to analyze in depth the issues related to fire security and protection, AIRfire has been able to position itself as a reference in the design, development and commissioning of turn-key projects, as well as in the supply and maintenance of fire prevention and suppression systems, converting it in the perfect partner to assist you whichever industry you are from, both nationally and internationally.

As sign of its continuous growth, AIRfire S.p.A has recently established its International Office in Barcelona, under the name of AIRfire Worldwide S.L. where the team is in charge of introducing and positioning the Italian brand on the global map, as well as giving full technical support on the various gaseous suppression systems.

Manufactured and assembled in Rome, engineered in Barcelona.



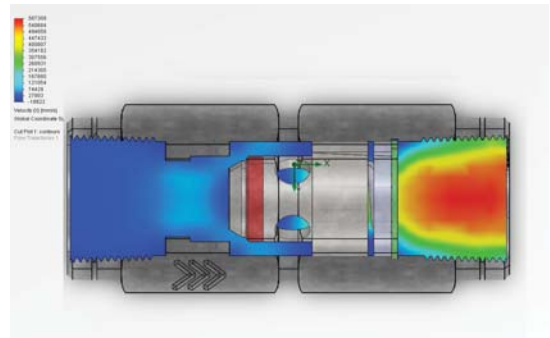


## Research & Development

One of AIRfire's advantages is its thorough know-how manufacturing, distributing, installing as well as servicing fire suppression products. This exclusive in-depth knowledge allows the Research and Development team to come up with innovative solutions that have been conceived taking into account the clients and the processes involved.

Our High Performance Team converts the markets' needs into solutions, starting from scratch. Brain storming ideas incessantly creating initial sketches and designs, which are then analyzed on the computer and once confident rapidly prototyped into initial test samples that are tested to evaluate their performance according to the various international standards under the watchful eye of the most renowned independent institutions such as: Rina, VdS, LPCB and UL. The process ends with the mass production of the new components.

These developments allow AIRfire to stay up to date and able to compete in the continuously fast changing global market. The high speed with which the world is evolving requires AIRfire to be flexible and able to quickly answer to new requests arising from the clients and the society as a whole.



## Key Features

AIRfire is the ideal partner in the design, development and realization of the best-suited fire safety solutions for all types of market sectors, both nationally and internationally. Our committed team is able to provide reliable and tailored products to our customers, ensuring quality and satisfaction.

Privately held, family-owned business

Own facilities to carry out production, testing and maintenance of fire suppression systems, guaranteeing short lead times.

Customer orientated team, providing viable solutions to Customer needs and Project specifications.

Standardized gaseous fire suppression systems, simplify designing and quotation phases of projects, stocking capabilities made efficient, and hassle free installation and maintenance.

Comprehensive range of gaseous systems to fulfil all project needs, and backed by recognized 3rd party Bodies.

**Designed by Installers for Installers.**

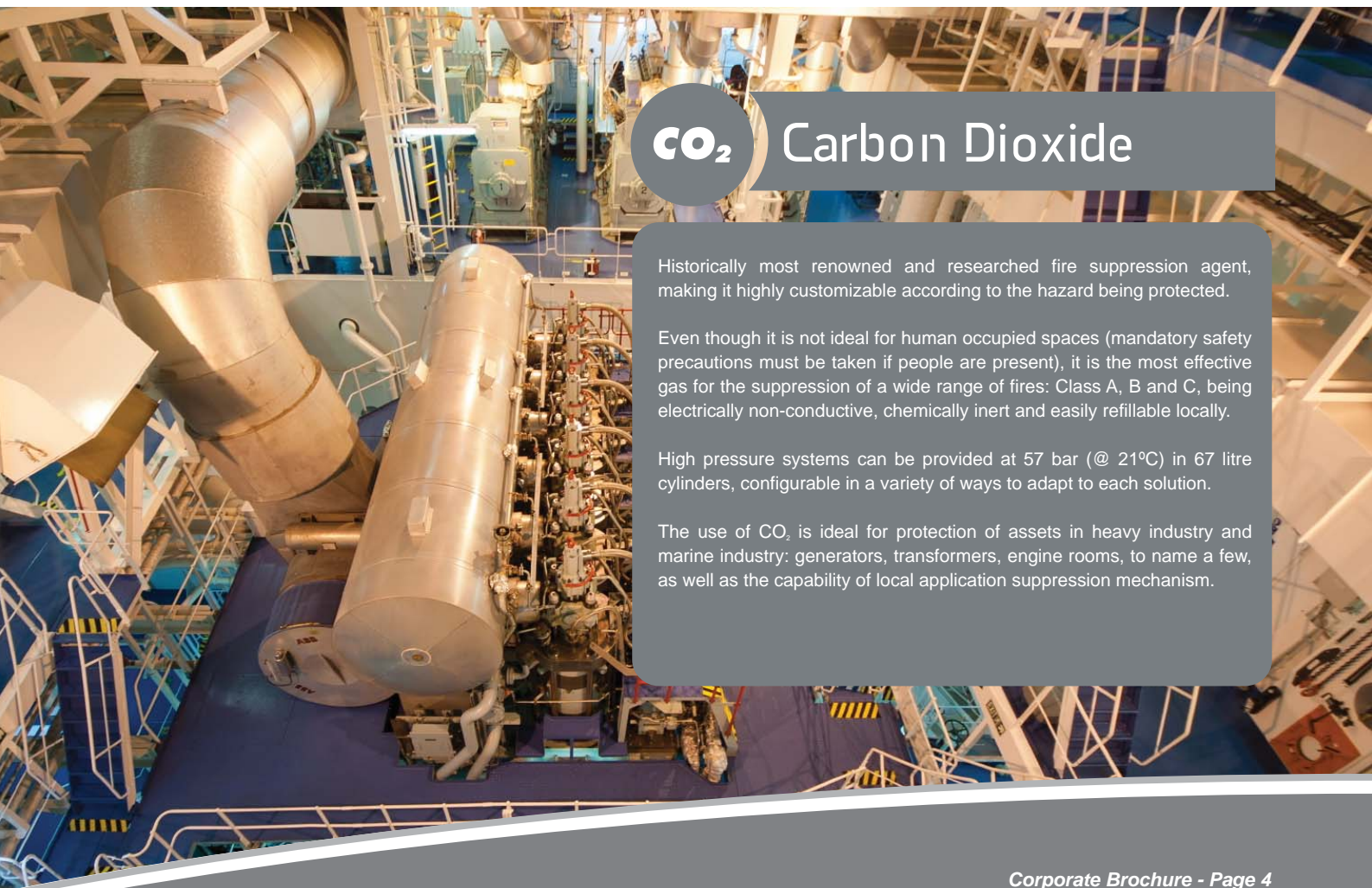
## IG Inerts

With the continuous concerns regarding environmental impact and since international treaties such as the Montreal Protocol and the Kyoto Protocol have been put into place regulating gases that can be used in fire suppression applications (amongst other industries), with the aim to reduce ozone depletion as well as having no greenhouse effect potential, Inert extinguishing gases are the ideal solution.

Inert gases are recognized for being 100% eco-friendly being naturally available in the air that we breathe. They are not toxic for humans, they do not release dangerous substances when in contact with fire, visibility is not impaired since there's no fogging and they do not release residues post discharge.

We can supply the complete range of Inert gases: *Argon (IG-01)*, *Nitrogen (IG-100)*, *Blend: 50% Argon- 50% Nitrogen (IG-55)* and *Blend: 50% Nitrogen, 42% Argon and 8% Carbon Dioxide (IG-541)*; available in 80 litre and 140 litre cylinders and at working pressures of 200 or 300 bar.

The use of Inert gases is wide spread and not limited to any one industry or application; ideal for the protection of large volumes as well as protection of several rooms with one system.



## CO<sub>2</sub> Carbon Dioxide

Historically most renowned and researched fire suppression agent, making it highly customizable according to the hazard being protected.

Even though it is not ideal for human occupied spaces (mandatory safety precautions must be taken if people are present), it is the most effective gas for the suppression of a wide range of fires: Class A, B and C, being electrically non-conductive, chemically inert and easily refillable locally.

High pressure systems can be provided at 57 bar (@ 21°C) in 67 litre cylinders, configurable in a variety of ways to adapt to each solution.

The use of CO<sub>2</sub> is ideal for protection of assets in heavy industry and marine industry: generators, transformers, engine rooms, to name a few, as well as the capability of local application suppression mechanism.





## Chemicals

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As a consequence of the banning of Halon gases (such as Halon 1301) for being greenhouse gases as well as participating in the depletion of the ozone layer (ODP), a new generation of more eco-friendly agents, have been developed maintaining the excellent fire suppression properties of Halon without the environmental problems.

We can supply a complete range of Chemical agents currently available on the market, at a variety of working pressures (25 bar and 42 bar), as well as a wide range of cylinder sizes allowing great flexibility when designing fire suppression projects.



### HFC 125

Having 0 ODP and thanks to its molecular structure, it is the ideal replacement for Halon 1301 fire suppression systems, allowing (previous technical verification required) retro fitting of the existing pipe installation, reducing considerably costs of upgrading.

HFC-125 is safe for people, colourless, odourless and electrically non-conductive. Upon its discharge in a fire, no residues are produced, reducing clean up and down time.

It is suitable for use in data and telecommunication centres, clean rooms, operating rooms, data archives, computer rooms, art and historical artefacts, and cold storage (being effective at low temperatures,  $-18^{\circ}\text{C}$ ), to name a few applications.



### HFC 227

Is another agent developed to fulfil the new regulations whilst always ensuring the best fire suppression attributes to extinguish Class A, Class B and Class C fires in seconds.

Thanks to its chemical properties: colourless, odourless, electrically non-conductive and no residues produced after a fire, it is applicable to protect a wide range of hazards: computer rooms, data centres, telecommunications facilities, museums, to name a few and all can be safely occupied by humans.

Additionally, due to its molecular properties, HFC-227 cylinder filling density is such that the cylinder foot print can be maintained to a minimum (i.e. low number of cylinders required), hence requiring less storage space.



### FK 5 1 12

Commercially known as NOVEC™ 1230 Fire Protection Fluid by 3M™, is an alternative agent suitable to protect high value assets, such as aerospace, aviation, military, marine, archives and museums, data centres and telecommunications, thanks to its favourable chemical properties: electrically non-conductive, no residues upon discharge and safe for humans.

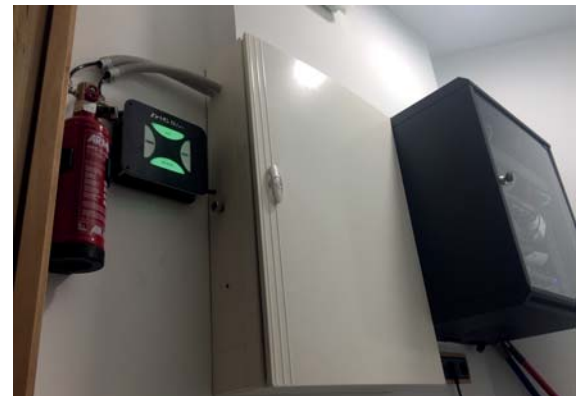
With a wide range of cylinder sizes available, 14 litres up to 345 litres pressurized at 34.5 bar, it allows great flexibility when designing for different volume hazards, allowing that the most adequate solution is always applied whilst always respecting the environment, having no effect on the ozone and low global warming potential.

# ARMAN fire®

There are cases where the hazards to be protected are enclosed in small volumes/ voids, making the use of normal fixed fire suppression systems complicated and inadequate. For this reason, AIRfire has decided to develop a specific system, the ARMANfire®, for these particular applications guaranteeing ease of design, installation, maintenance and of course, appropriate extinguishing capabilities.

The ARMANfire® systems are pre-engineered, autonomous pressurised cylinder systems that do not require external power supply to operate. Thanks to sophisticated polymer tubing acting as a linear heat/ flame sensor, it provides simultaneous detection and extinction capabilities with the advantage to attack the fire directly at its source by rapid discharge. This particularity prevents the fire from propagating and damaging other components.

The system is available with Carbon Dioxide or HFC-227 extinguishing agents; giving it great versatility in the applications it can be used. Hazards commonly protected: electrical cabinets, telecommunication racks, MCC panels, CNC machine, control panels. Any application not listed we are more than happy to discuss further.



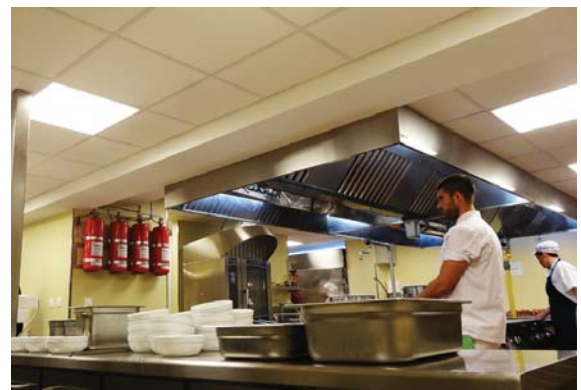
# ARMAN fire Chef®

Kitchen environments are among those with the highest risk of fire, where the worst case scenario would be oil/ grease fire that can rapidly rise into an uncontrollable inferno. It is for this reason AIRfire decided to go one step further with the ARMANfire base system and develop a specific solution for these extreme fires providing reliable, cost-effective protection of facilities and personnel.

The ARMANfire Chef is a simple to install system that relies on the pre-engineered technology previously mentioned adapted to the surroundings of a kitchen.

It is assembled near the kitchen hoods with the sophisticated polymer tubing installed within the hoods providing linear detection all along the cooking area. Nozzles are located above each cooking appliance, inside the hood plenum and the extraction duct, directing accurately the extinguishing agent and preventing fire propagation through the ventilation duct.

The agent used for this application is an eco-friendly aqueous solution with quick biodegradability, non-corrosive to the kitchen equipment, safe for humans and easy to clean up after discharge. Thanks to its interaction with cooking fat, a soapy substance is created allowing to smother the fire (prevents re-ignition) and rapidly cools down the flames.







## Projects

No project is too small or too large for AIRfire – we believe that fire safety is a basic requirement to society. No two projects are the same, even though the systems are standard, their application in each sector and surroundings can vary dramatically and no two clients are the same either, each having their own specific requirements.

It is for these reasons AIRfire is your ideal partner whether you are a distributor, installer or contractor we'll be with you along all the phases of the project and throughout the lifecycle of our systems. Providing complete support: designing, installing, and maintaining the systems as well as training on how to carry out all these tasks.

It must also not be forgotten the key factor that differentiates us from other manufacturers is that we started as installers; therefore we know the headaches and surprises that can arise on site. That is why you will always be in good hands with AIRfire.

- Automotive
- Commercial & Financial
- Food industry
- Oil & Gas
- Public administration
- Telecommunications

... too name a few



**Estonia** - SEB Building



**Iran** - Imam Reza Holy Shrine



**Romania** - BerariaH



**Romania** - Integrated Centre for Advanced Laser Technologies (CETAL)



**Turkey** - Ministry of Environment



**Vietnam** - Novotel Phú Quoc

# Where are We

