



Compressed Air Foam Fire Suppression



fire protection
TECHNOLOGIES



GASEOUS
SUPPRESSION



WATER
SUPPRESSION



FOAM
SUPPRESSION



EXPLOSION
PROTECTION



FIRE
DETECTION



MILITARY
& DEFENCE



SPECIAL
APPLICATIONS



SUPPORT
SERVICES

Automated Compressed Air Foam Fire Suppression Systems



“ACAF® Automatic Fire Suppression Systems are proven to effectively suppress flammable liquid fires in commercial, industrial and hazardous environments.”

The systems are engineered to meet and exceed the most stringent industry standards.

ACAF® Systems perform when and where they are needed!

At the heart of each ACAF® system is the world renowned, Compressed Air Foam Generator. This generator creates a unique, non-toxic, biodegradable foam, from a foam-water solution. Pressurised Nitrogen is used to create the compressed air foam (CAF) and to power the system.

ACAF® pre-engineered fire suppression systems are made up of single or multiple CAF generator assemblies.

This factory built assembly is sized to the number of nozzles it may supply. Larger hazardous areas can be protected by combining multiple CAF generators. CAF generators may be supplied by pressure tanks for self-contained supply systems or a foam proportioner for a fixed water supply system.

CAF generators are available in four assemblies: MOD -1 thru MOD- 4. These modules can support 2 to 16 CAF nozzles.

The systems use lower water flow and pressure as compared to traditional foam water systems, thus our systems may be designed for applications with as much as 75 % less water demand.

SUPPLY CHOICES

Self-Contained SUPPLY , Automatic Fixed Pipe System (SC)

The SC configuration is recommended for areas where water is not readily available. This automatic, pre-engineered, stored energy-type, fire suppression system uses CAF as the fire suppression agent. Unique to the industry, it does not require a water supply to create CAF.

Fixed Water Supply, Automatic Fixed Pipe System (FW)

When a reliable water supply is available a CAF solution may be designed using ACAF's® fixed water supply system. This system requires a foam proportioner to mix foam concentrate and water to a pre-determined ratio of 3% or 6 %.

CAF GENERATOR

Our specially designed and patented valve assembly creates the CAF upon activation and maintains control of the system. The result is an expanded foam material that consists of small uniform bubbles.

SYSTEM SELECTION

- Deluge Systems: chemicals & fuels
- Fixed Spray System: power generation, machinery spaces & pumps
- DN7 Nozzles
- Oscillating Monitor System: aircraft hangars & heliports
- DIFFS System: helipads & landing decks
- Rimseal System: oil storage & floating roof tanks (for SC only)
- Hose Reel

Products are FM Approved and manufactured to the requirements of Factory Mutual Global.



DN7 Nozzles



DIFFS Nozzles



Hose Reel

LEADING THE FOAM FIRE SUPPRESSION INDUSTRY

- Industry leading performance in foam consistency through the entire CAF discharge process.
- Environmentally safe, Green Compliant Technology.
- Uses 75% less water when compared to traditional technologies.
- Industry's only stationary CAF Nozzle.
- Compact design utilizes minimum space.

FACTS & FEATURES

- Materials used in the construction of ACAF® system are of the finest quality to ensure years of trouble free, and reliable service.
- Each ACAF® system is custom built to meet specific flow demands.
- ACAF® Systems CAF Generators, Mod 1-4, are pre-assembled, reducing the cost of installation.
- The foam used in our systems is a special mix of AR-AFFF foam concentrate and water that is environmentally responsible.
- Cost effective and unique, DN7 Nozzles, are specifically designed for use with ACAF® systems and FM approved for both the pendant and horizontal positions.
- Actuation of the system may be electrical or pneumatic, or a combination of both. Each control valve assembly is built with an emergency release valve for manual release.
- CAF is a dense foam that will last long after discharge providing strong reflash protection.



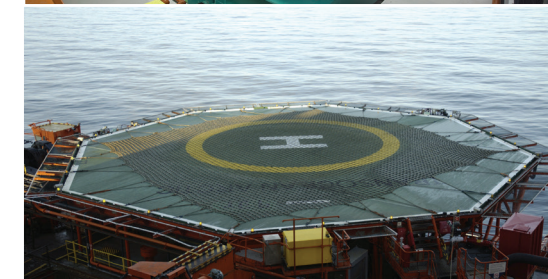
Fixed Water Supply



CAF Generator



Self-Contained Supply



PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® / NAF S 227 (HFC-227ea.)
Ecaro 125® / NAF S 125 (HFC-125)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe & Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Foam Concentrate Testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility Testing

Fire Detection



Linear Heat Detection - Digital
Linear Heat Detection - Fibre Optic
Linear Heat Detection - Micro Chip
Flame Detection
Video Imaging Detection
Spark Detection
Control & Indicating Equipment
Thermal Imaging Detection
Bushfire Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Compressed Air Foam
Marine & Offshore
Vapour Mitigation

Support Services



Design / Engineering
Technical Support
Services & Testing

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'Every solution for your special hazard needs'