

# AUTOMATIC CAF FIRE HOSE REEL SYSTEM



## THE FIRST AUTOMATIC CAF, FIRE HOSE REEL SYSTEM THAT IS COMPLETELY SELF-CONTAINED!



The Automatic CAF Fire Hose Systems are ideal for firefighting needs in locations that require foam as a fire fighting agent. The system will provide CAF on demand to one or more fire hoses automatically. No running for equipment as the system will start on a signal from any remote hose station and will summon the fire department at the same time. Applications include but are not limited to: marinas, aircraft hangers, fuel loading stations, mines, onboard ships, and parking garages.

The piping network designed by an ACAF Systems, Inc. licensed contractor is connected to an automatic SC assembly sized for the particular hazard. By connecting additional SC assemblies, large areas may be protected. Installation of the piping system and materials must be in accordance with ACAF System, Inc.'s design manual.

### FEATURES

- No water supply required.
- CAF on demand where needed, when needed.
- Rapid fire extinguishment and superior reflash protection.
- Hose stations may be located up to 400 feet from the SC CAF generator.
- Multiple hose stations may be supplied by a single CAF generator.
- Fire alarm signal is automatically sent when the system is charged.
- Supervised piping network provides assurance of system integrity.
- CAF is discharged from the nozzle a distance of 35 feet, allowing for safe fire fighting.
- Activation maybe electric or pneumatic.
- Each valve assembly is sized by ACAF System, Inc. to the system demand and each unit has a unique serial number.
- Systems may be designed for 5 or 10-minute discharge time or more if need be.
- Piping is the same as used in automatic sprinkler systems; no special materials are required.
- System operating pressure is less than 125 psi.



# AUTOMATIC CAF SC200, 400, 800 AND 1600 SERIES



## THE FIRST AUTOMATIC CAF, PRE-ENGINEERED FIRE SUPPRESSION SYSTEM THAT IS COMPLETELY SELF-CONTAINED!



ACAF Systems, Inc. model SC series is an automatic pre-engineered, self-contained, stored energy-type fire suppression system that uses CAF (Compressed Air Foam) as the fire suppression agent. Unique to the industry, it requires no water supply but rather creates a unique CAF: a non-toxic, biodegradable foam, from a pre-mixed foam water solution. Nitrogen is used under pressure to create the CAF as well as to power the system. Control of the system is maintained by a specially designed valve assembly that upon activation creates CAF. The result is an expanded foam material that consists of small uniform bubbles.

The SC series is available in four assemblies: 200, 400, 800 and 1600. Each features a preassembled automatic CAF generator/control valve. ACAF Systems, Inc. model SC series is designed for use in automatic fixed spray, hose reel, and oscillating monitor CAF systems.

ACAF Systems, Inc. model SC is pre-assembled, so the cost of installation is reduced.

### FEATURES

- A completely automatic control valve that creates CAF and controls the flow without any field adjustment required or available.
- Self-contained design requires no water supply or energy source to power the CAF generation.
- Assemblies are built in four sizes: ACAF SC200, SC400, SC800 and SC1600. By combining multiple valve assemblies, large areas may be protected.
- Compressed nitrogen is the power that drives the system and creates the CAF. Nitrogen is provided by DOT certified compressed air cylinders. The number and size of the cylinders is calculated by ACAF Systems, Inc. based upon the system size.
- A foam/water solution is stored in a steel pressure tank that is sized by ACAF Systems, Inc. for the system design.
- ESF Extreme is the foam water and the only solution approved for use in an ACAF system. The foam is a special mix of AFFF foam concentrate and water that is environmentally responsible. Extreme Foam is a class B foam for hydrocarbon fuel fires.
- Actuation of the system may be manually, electrically or pneumatically, or a combination of electric/pneumatic. Each control valve assembly is built with an emergency release valve for manual release.
- Supervision of all aspects of the control valve is by the Potter PFC-4410RC. The main system solution control valve is provided with tamper switches as is the nitrogen supply control valve.

Our ACAF Systems, Inc. fire suppression system has undergone fire tests witnessed by FM Global.

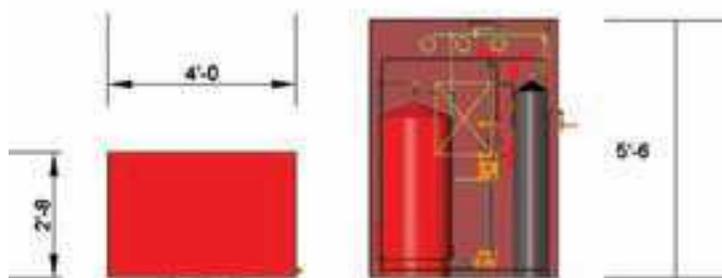
*Materials used in the construction of an ACAF system are of the finest quality to ensure years of trouble free, and reliable service.*



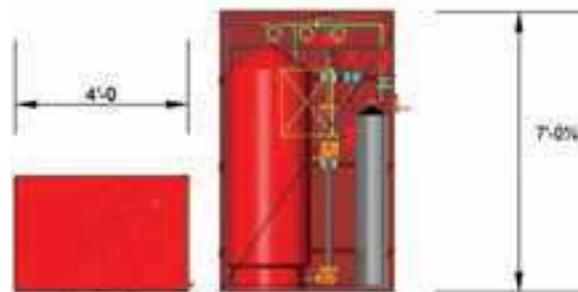
# AUTOMATIC CAF SC200, 400, 800 AND 1600 SERIES



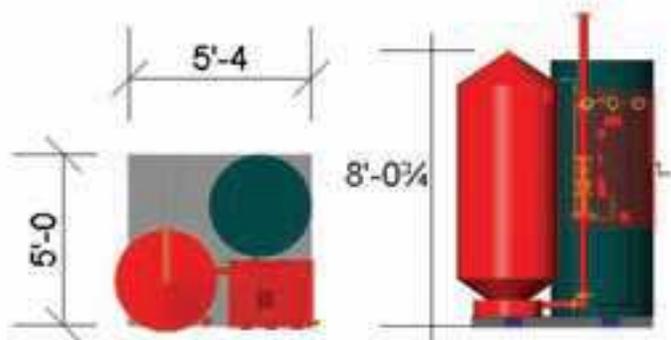
**THE FIRST AUTOMATIC CAF, PRE-ENGINEERED FIRE SUPPRESSION SYSTEM  
THAT IS COMPLETELY SELF-CONTAINED!**



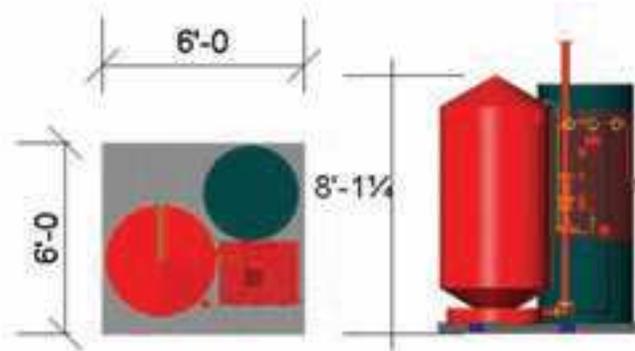
*SC 200 model*



*SC 400 model*



*SC 800 model*



*SC 1600 model*

THE NEXT  
GENERATION  
OF FOAM FIRE  
SUPPRESSION



# AUTOMATIC CAF FIXED PIPE SPRAY SYSTEM



**THE FIRST AUTOMATIC CAF, PRE-ENGINEERED FIRE SUPPRESSION SYSTEM  
THAT IS COMPLETELY SELF-CONTAINED!**



The Automatic CAF Fixed Pipe Spray System is perfect for fire protection of special hazards that involve flammable liquids. Applications include emergency generators in hospitals and high-rise buildings, chemical storage facilities, and fuel transfer stations, just to mention a few.

The piping network designed by an ACAF Systems, Inc. licensed contractor is connected to an automatic SC assembly sized for the hazard. By connecting additional SC assemblies, large areas may be protected. Installation of the piping system and materials must be in accordance with ACAF System, Inc.'s design manual.

## FEATURES

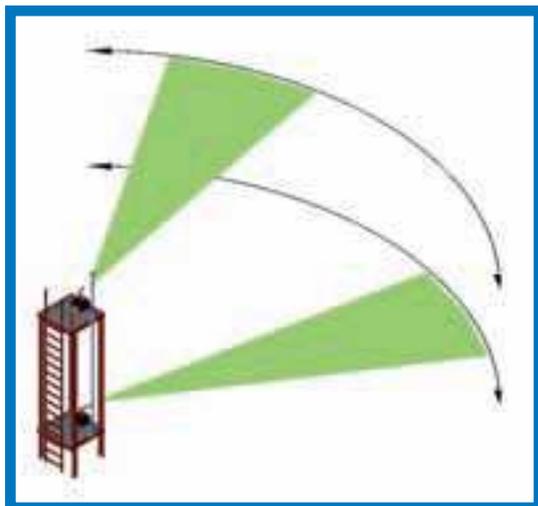
- No water supply required.
- Special nozzles are carefully selected and specifically designed for use in distributing CAF in our ACAF Systems, Inc. products.
- Rapid fire extinguishment and superior reflash protection is achieved from a well designed system that provides a thick cover of CAF quickly over the hazard area.
- System design may be fixed spray or deluge.
- Nozzles may be installed from 6 to 56 feet.
- Each valve assembly is sized by ACAF System, Inc. to the system demand and each unit has a unique serial number.
- Systems maybe designed for 5 or 10-minute discharge time.
- Piping is the same as used in automatic sprinkler systems no special materials are required.



# AUTOMATIC OSCILLATING MONITOR SYSTEM



**THE FIRST AUTOMATIC CAF, PRE-ENGINEERED FIRE SUPPRESSION SYSTEM THAT IS COMPLETELY SELF-CONTAINED!**



ACAF Monitor System is an automatic pre-engineered, self-contained, stored energy-type fire suppression system that uses CAF (Compressed Air Foam) as the fire suppression agent. Unique to the industry, it requires no water supply but rather creates a unique CAF: a non-toxic, vegetable-based, biodegradable, pre-mixed foam water solution. Nitrogen is used under pressure to create this special CAF as well as to power the system. A specially designed valve assembly that upon activation creates CAF maintains control of the system. The result is an expanded foam material that consists of small uniform bubbles, called ESF Extreme Foam.

## **MONITOR SYSTEMS USING ACAF SC 800 AND SC 1600:**

Our unique automated system is hydraulically driven – the first in the field of CAF fire suppression! It operates in a similar fashion as a lawn sprinkler, oscillating left to right. The motor is driven hydraulically with liquid from the product's own solution tank. There are no batteries, electricity, generator, or fuel tanks required; therefore power outages or fuel shortages pose no risk to the system's reliability. Discharge duration may be designed for up to 10 minutes.

This ACAF Systems, Inc. patented innovation is an excellent choice for applications such as within marina construction and servicing buildings, where in the event of a fire our Monitor Systems will spread CAF over a large area. Also, aircraft hangers can benefit from the product's ability to spray CAF over the top and underneath aircraft stationed within.

