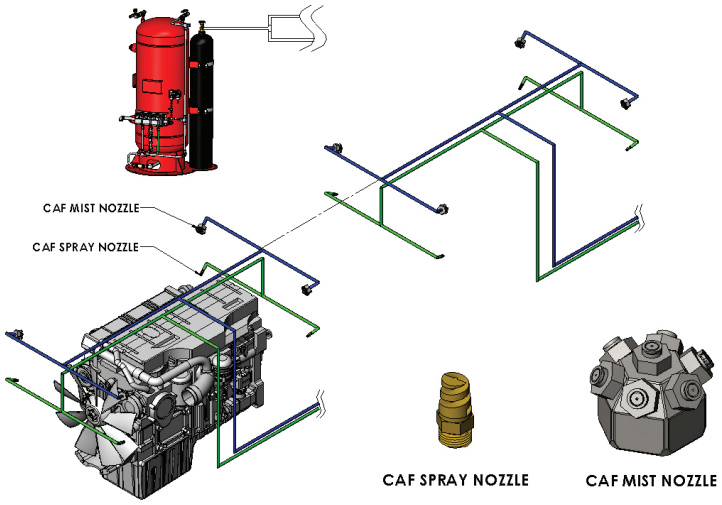
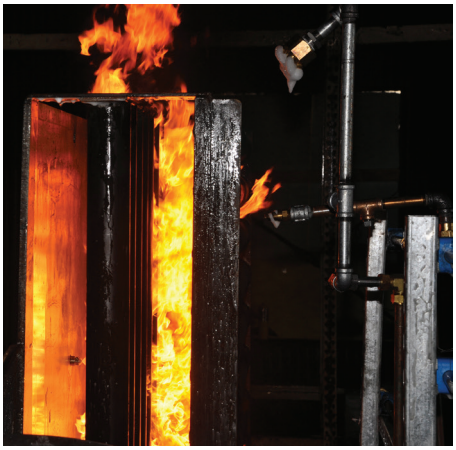
The Next Generation of Foam Fire Suppression

CrossFire™



Vehicle Engine Compartment Applications

Fires have the potential to occur in just about every type of vehicle engine compartment ranging from a below engine pool fire to a pressurized hydraulic line spray fire or combination thereof. Engine compartments contain variety of potential ignition sources from electrical to superheated engine surfaces. Additionally, an engine compartment suppression agent must also be capable of dealing with suppression in turbulent conditions. It is critical that these fires be detected and suppressed rapidly to minimize property loss and potentially human lives. CrossFire, the new technically advanced ACAF single-agent dual-action CAF - CAF mist suppression system has been developed and designed to perform this task.



To enhance the fire suppression capability of the two individual agents, a single control device delivers both CAF and CAF mist to the fire through separate nozzles that are positioned to deliver foam and foam mist in one integrated stream.

The combination of the two sprays with one agent strengthens the suppression capabilities of both components into the creation of a single more effective suppression system. This, in tandem with state of the art system components and fire detection make for a highly advanced, very effective fire suppression system.

The CrossFire system is designed as a compact self-contained, stored energy system. As most vehicle have limited storage space and capacity, the system is developed and designed to minimize equipment installation and storage space while utilizing the environmentally friendly, fluorine-free, “green” suppression Solberg Rehealing RF-3 foam concentrate.

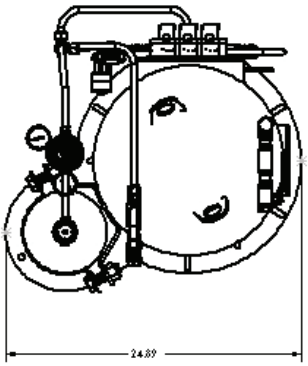
A 3% solution of the RF-3 concentrate and water is stored in ASME steel pressure tanks sized to meet the required system demand. Tanks are sized to meet the individual applications. Nitrogen gas drives the solution from the pressure tank to the CAF generator where it is mixed with nitrogen gas under pressure to produce CAF and CAF mist. The size and number of mixing chambers is based upon the number of nozzles the generator is required to supply. ACAF will provide design and installation details for each

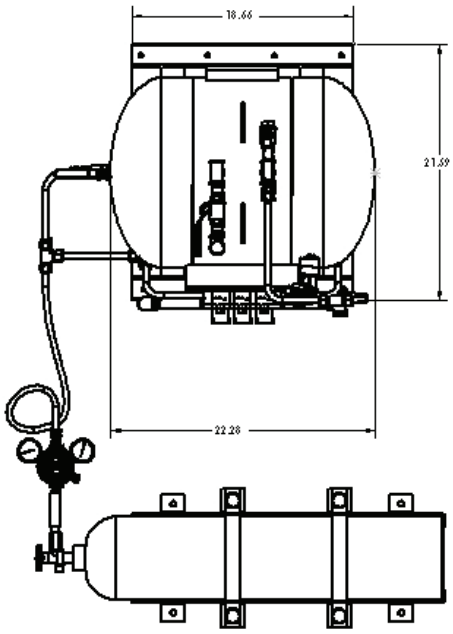
Continued on Page 4

FEATURES & BENEFITS

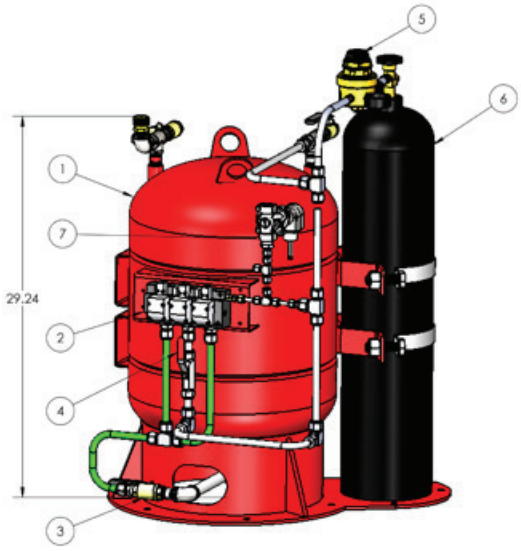
System Configurations

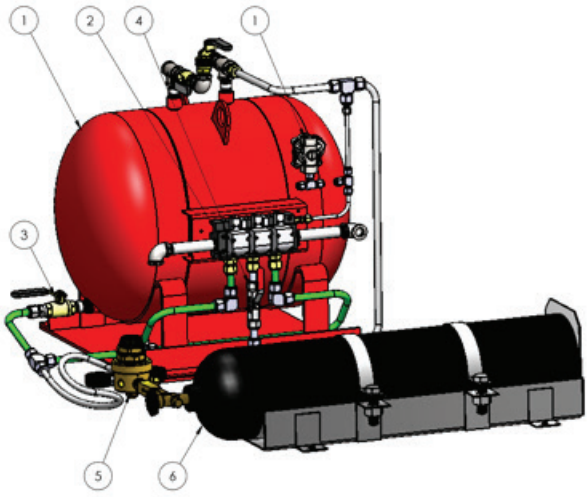
15 Gallons





ITEM NO.	COMPONENT REFERENCE	QTY
1	Tank	1
2	Control Valve	1
3	Solution Valve	1
4	Nitrogen Valve	1
5	Regulator	1
6	Nitrogen Cylinder	1
7	Solenoid Valve	1

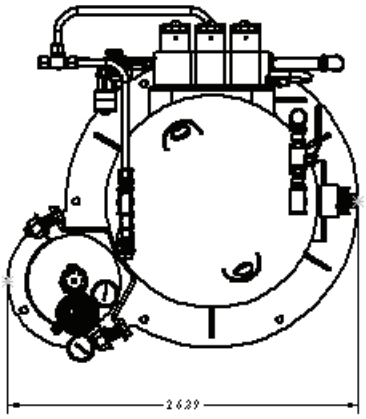


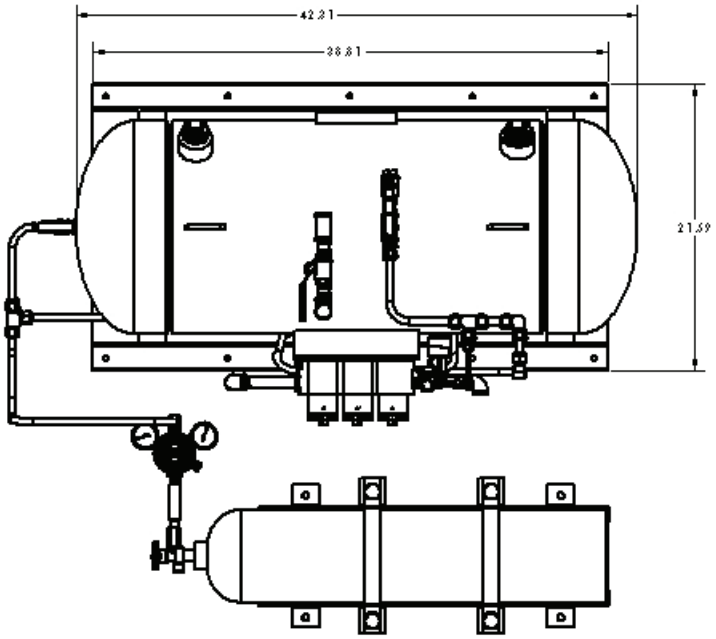


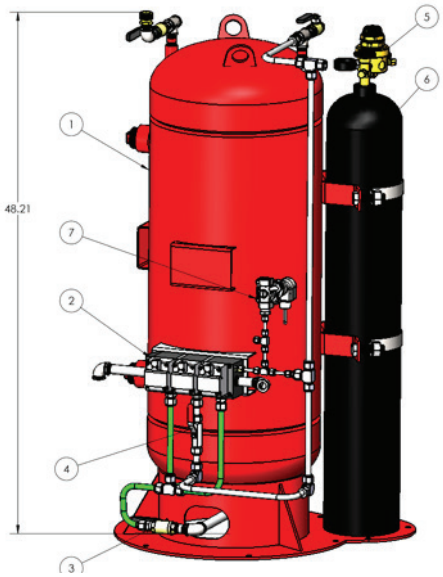
TECHNICAL DATA

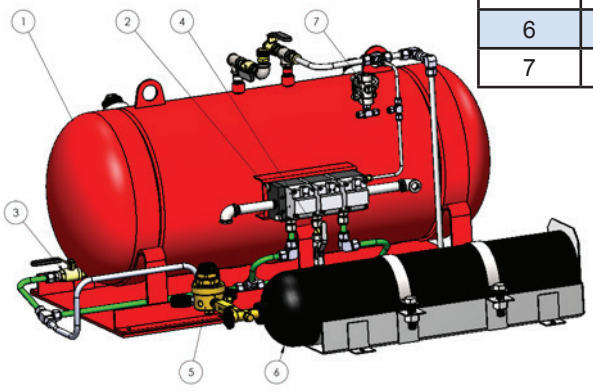
System Configurations

30 Gallons









ITEM NO.	COMPONENT REFERENCE	QTY
1	30 Gallon Tank	1
2	Control Valve	1
3	Solution Valve	1
4	Nitrogen Valve	1
5	Regulator	1
6	Nitrogen Cylinder	1
7	Solenoid Valve	1

TECHNICAL DATA

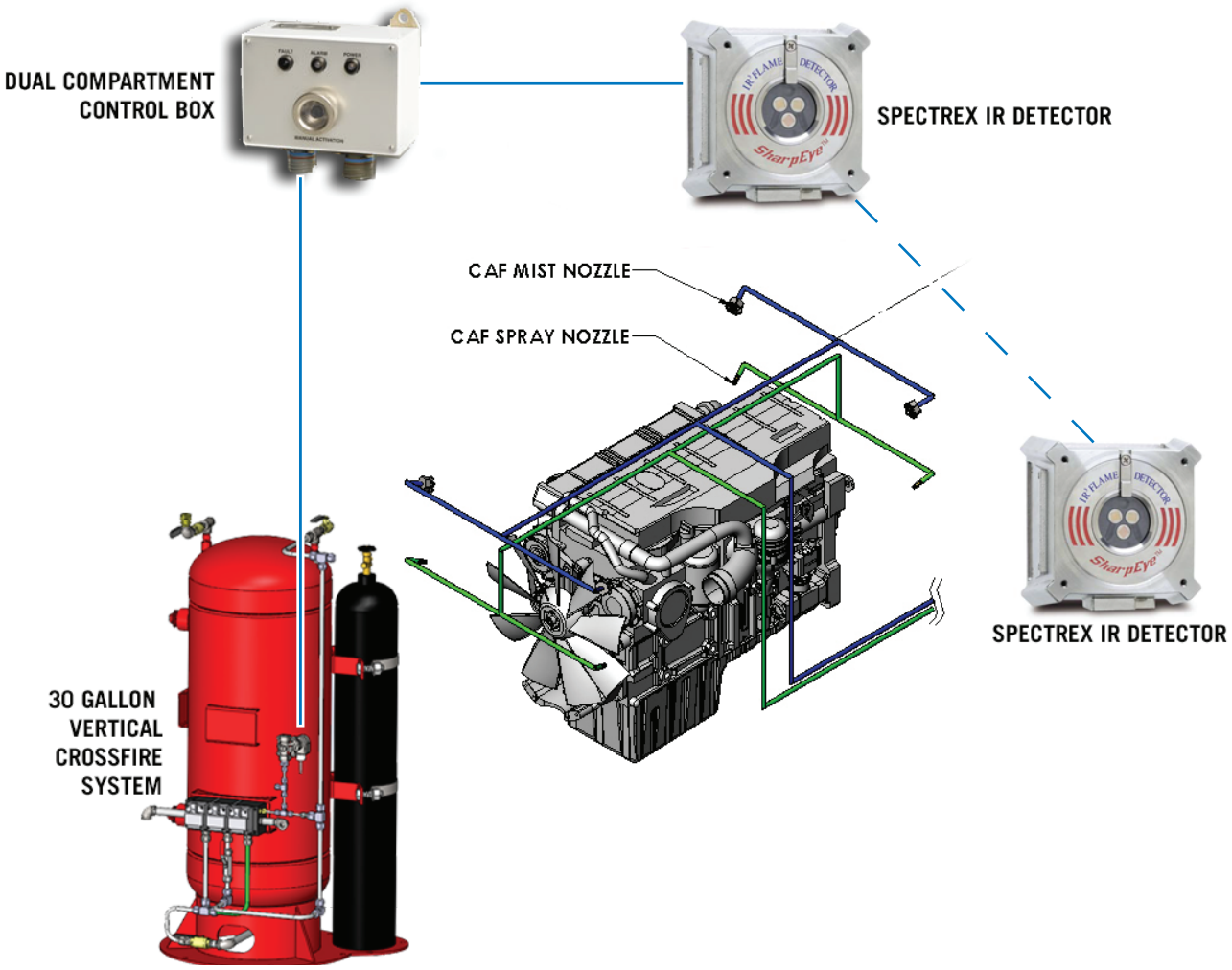
individual application from tank size to the individual CAF and CAF mist nozzle types.

The system may be equipped with multiple types of detection systems depending upon the application's configuration and conditions. The detection system will be either linear heat detection or IR flame detection used in conjunction with individualized controllers. For flexibility and redundancy, the system will be both electrically and pneumatic powered-activated in conjunction with a Firetrace pilot line.

A thermally actuated control (TAC) valve is utilized to control both the discharge of CAF and CAF mist. Use of this TAC valve provides the method for making this one singular fire suppression system, with multiple zone control valves (ZCVs). Multiple ZCVs allow the system to send CAF or CAF mist to the appropriate location required to suppress the fire. Thus, minimizing equipment storage and installation space.

Detection Options

Agent is automatically released by either Spectrex Infrared Detection (illustrated below) or Linear Heat Detection.



TECHNICAL DATA

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