

FM APPROVED DRY CHEMICAL, LIQUID-ONLY, AND DUAL AGENT FIRE SUPPRESSION SYSTEMS.

There is no one size fits all solution for fire protection. When choosing your fire suppression system, consider the unique hazards of your machine.

AFEX offers dry chemical and liquid agent fire suppression systems in a variety of sizes and configurations to meet your needs. Every **AFEX** system is purpose built to withstand the abuse of your work environment. They are designed to be effective, rugged, reliable, and easily serviced in the field.

You can count on **AFEX**, the heavy equipment specialist, to design a fire suppression system that properly protects your machine.

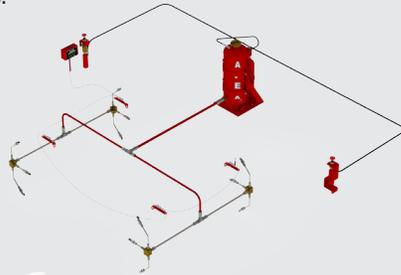
Hazard	Dry Chemical	Liquid Agent
Debris	✓	✓✓
Flammable Liquids	✓✓	✓
Hot Surfaces	✓	✓✓
Electrical Fires	✓	✗
Enclosed Areas	✓✓	✓
Open Areas	✓	✓✓

DRY CHEMICAL SYSTEMS

Providing the most efficient protection of any fire suppression system, dry chemical systems are the industry standard for heavy equipment applications. Dry chemical is effective against Class A (debris), Class B (fuel), and Class C (electrical) fires and works by flooding a volume of space, such as a vehicle engine compartment, to suffocate the flame.

AFEX dry chemical systems provide fast fire knockdown and perform especially well in enclosed areas.

AFEX dry chemical systems are available in 20, 30, 60, and 125 pound sizes.

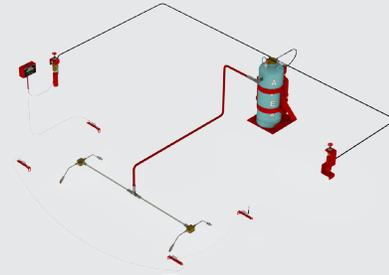


LIQUID AGENT SYSTEMS

Providing exceptional cooling abilities and Class A (debris) and Class B (fuel) fire suppression, customers around the world are adding **AFEX** liquid agent systems to their fire protection programs. The **AFEX** liquid agent works by cooling hot surfaces, separating fuel hydrocarbon molecules to prevent it from igniting, and forming a layer of foam to suffocate the flame.

AFEX liquid agent is non-toxic, non-hazardous, pH neutral, and suitable for temperatures as low as -40°F (-40°C).

AFEX liquid agent systems are available in 5 gallon and 15 gallon sizes.

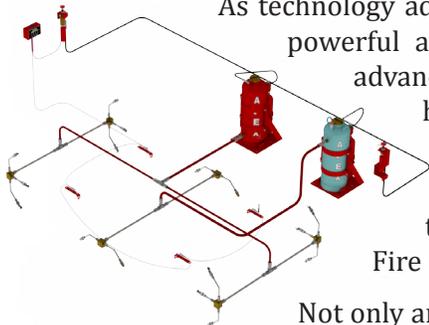


DUAL AGENT SYSTEMS

As technology advances, equipment manufacturers are designing machines that are more powerful and productive while also reducing emissions. The downside to these advancements is increased heat throughout the engine compartment and more hydraulics, creating additional and more severe fire risks.

AFEX has found that dual agent systems, combining the benefits of dry chemical with the benefits of liquid agent, are the most effective way to address these risks. Dual agent systems are so effective that the National Fire Protection Agency **requires** them for large hydraulic shovels.

Not only are they more effective, dual agent systems require less space and are more economical than a comparable liquid-only system for the same machine.



FREQUENTLY ASKED QUESTIONS

DOES AFEX OFFER LIQUID-ONLY FIRE SUPPRESSION SYSTEMS?

Yes. AFEX offers liquid-only fire suppression systems that have been tested and approved by Factory Mutual (FM) and provide Australian Standard 5062 (AS 5062) compliant fire suppression abilities.

IS THE AFEX LIQUID AGENT HAZARDOUS?

No. While other manufacturers' liquid agents may contain up to 20% ethylene glycol and/or may be classified as hazardous by OSHA, the **AFEX** liquid agent is non-toxic, non-hazardous, and pH neutral. **AFEX** liquid agent contains mostly organic compounds. It is formulated using water based and food grade ingredients and is fully biodegradable.

DOES DRY CHEMICAL OR LIQUID AGENT PROVIDE THE BEST PROTECTION?

It depends. Dry chemical and liquid agent should each be considered for their unique benefits.

Dry chemical floods an entire enclosure, is effective against debris, fuel, and electrical fires, and provides unparalleled fire knockdown speed, making it especially well suited for protecting vehicle engine, transmission, and hydraulic pump compartments.

Liquid agent provides an extended, cooling, discharge for a targeted area, making it the top choice for protecting specific high risk vehicle components such as turbochargers, exhaust components, and Tier 4 aftertreatment components or for penetrating areas with debris build up.

Dual agent systems combine the most desirable qualities of both dry chemical and liquid agent and will provide the best overall protection for most applications.

ARE LIQUID-ONLY SYSTEMS AS EFFECTIVE AS DRY CHEMICAL SYSTEMS?

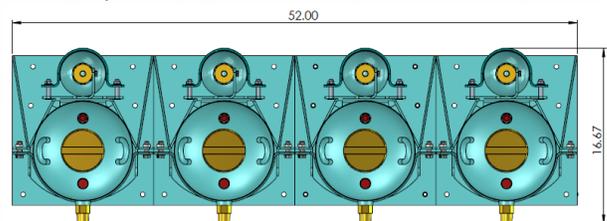
They can be, if you use enough agent. However, it is a common misconception that they are also more efficient than dry chemical systems.

Because liquid agent does not flood an enclosed space, more nozzles are required to protect a similar size compartment, **and even then the overall coverage cannot accurately be compared to the total-flooding of a dry chemical system.** These additional nozzles result in a more complex distribution network, which adds to the required system installation time.

Liquid agent tanks also provide less nozzles per tank than a dry chemical tank of the same size. For example, a 60 pound dry chemical tank provides up to 12 nozzles whereas a 5 gallon liquid agent tank only provides 4 nozzles. Therefore, in order to provide the same coverage as dry chemical or dual agent systems, liquid-only systems would require more and/or larger tanks, increasing the required space on the machine.

Ultimately this results in liquid-only systems that are heavier, require greater installation times, occupy a larger footprint on the machine, and cost more than a comparable dry chemical or dual agent system.

LIQUID-ONLY SYSTEM WITH 16 NOZZLES



DUAL AGENT SYSTEM WITH 16 NOZZLES

