

What is a Compressed Air Foam System (CAFS)?

CAFS is a foam system which has the added ability to inject compressed air into the foam solution to generate a product referred to as "compressed air foam." This type of foam has a much tighter, more dense, bubble structure than plain water or standard foam solutions. This bubble structure allows the foam to adhere to vertical and horizontal surfaces, as well as penetrate fires deeper before the bubbles are broken down, allowing the latent water to be more effective.

Compressed Air Foam is so effective because it truly attacks all sides of the fire tetrahedron. It smothers the fire with a "foam blanket", thus preventing oxygen from combining with fuel. It diminishes the heat by insulating (using the trapped air within the bubble structure) and reflecting (the bubbles actually reflect radiant heat, thus preventing excess heat from adding to the fire.) It prevents additional fuel from reacting with the fire by providing a barrier. Finally, CAFS has been shown to "disrupt" the chemical reaction required for fire to continue.

CAFS is actually 15 to 30 times more effective than water and other types of foam at fighting most fires.

What is "Stored Energy" CAFS?

The term "stored energy" simply refers to the method used to dispense the CAFS. Our systems utilize compressed air or nitrogen rather than pressurized air generated by an air compressor. This makes these systems truly "self-contained", meaning that absolutely no external resources are required to operate them. Our systems can be quickly recharged for additional fire fighting.