



Self-Contained CAFS Systems

1

Portable Self-Contained Compressed Air Foam Systems (CAFS)

- **Portable**
 - Hand Held
 - Skid
 - Backpack
 - Carts
 - Components/Modular
- **Self-Contained**
 - No Pump, No Motor, Few Moving Parts (Low Maintenance)
 - Driven by Compressed Air or Nitrogen (Easy refill for End User)
 - A. 2216 PSI Aluminum Cylinder-Industrial Use
 - B. 4500 PSI, 45min, SCBA Cylinder-Fire Department Use
 - C. Adapter to fill 2216 PSI Aluminum Cylinder with Common SCBA Compressor
 - Pre-Set Ready to Use, no adjustments needed (Pressure & Expansion)
 - Foam Concentrate Pre-Mixed into Solution Tank

2

Great for Class A and B Fires

- **UL 711 Rated for Class A and B Fires**
 - Size 30 gallon and up UL 711 rated for a minimum of 10A and 60B
 - Works Great with FireAde A/B Foam
 - Pre-Mixed with FireAde A/B @ 3% makes the unit ready for any Class A or Class B (Hydrocarbon)

3

Quality Construction and Raw Materials

- **Marine Grade Aluminum Tanks**
 - Resist Corrosion/Extends Life
 - Most Competitive Manufacturers Use Carbon Steel Tanks with Epoxy Lining
 - A. No Way to Ensure Epoxy Coverage without Manway Hole for Inspection
 - B. Tank Rust and system needs replacement or new tank in 1-3 years.
- **Top Cover to protect all working parts**
- **Gauges protected in Pump Panel or protective covering**
- **U.S. Manufactured Parts**

4

Functional Designs

- 2 or 3 Step Operation
 - Small Units 2 Step
 - Larger Units 3 Step
- Designs to fit any space or need
 - Hand Held- Fits a Compartment or Mounted with Bracket
 - Backpack- Good for hands-free operation
 - Skids- Fit great in Compartments, Truck Beds, UTV's, ATV's
 - Carts- Great for Factories, Helipads, High Risk Industrial Areas
 - Components- Great for hard to fit areas where standard designs will not work

- Designs for Fire Department, Military, and Industrial use
 - Smaller Units fit well for FD and Military use (3SD, 3BP, 10 and 30 Skid)
 - Larger Units fit well for Military, and Industrial use (60 Cart, 30 and 60 Skid, and 200 Skid)
- Easy to Refill by the end user
 - Add Water
 - Add Appropriate amount of Foam Concentrate
 - Fill and/or Replace with a Full Compressed Air/Nitrogen Cylinder

5

Performance

- Attacks All 4 Sides of the Fire Tetrahedron
 - Oxygen- With a CAFS enhanced Foam Blanket
 - Fuel:
 - A. Class A- Blanketing exposed areas to prevent vapor release, and with FireAde through penetration and saturation (Wetting) of the class A material
 - B. Class B- Hydrocarbon Suspension, through polarity the Hydrocarbon Chain is being stressed to non-combustion for 24 – 48 hours.
 - Heat- Rapid Reduction in Heat
 - A. Small Bubble Size Increases Surface Area allowing for the CAFS Foam to absorb more BTU than Standard Bubble sizes
 - Free Radicals- The small bubble structure helps aid in the disruption of the Free Radical Chain Reaction and also helps to pull the unburnt carbon out of the thick toxic black smoke.

- No Drop in Pressure or Distance (External Pressure Source)
- Up to 20:1 Expansion Ratio (Each Gallon of Solution equals about 20 gallons of finished foam from the nozzle)
- 45' to 120' Discharge Ranges (Space between the responder and the hazard)
- Good for Class A, B, C, D, and K when using FireAde (May be different using other foams)
- Can be used with any Foam Product, though we recommend FireAde
 - Benefits of using FireAde
 - A. FireAde Dual UL Listing (Wetting Agent (Class A)/AFFF (Class B))
 - B. FireAde stays Premixed, will never separate from water when mixed
 - C. FireAde is friendly to the equipment (Will not Clog, Gum, Gel, or Corrode)

6

Recommended Usage

- 3 Super Duty and 3 Backpack
 - First out Trucks
 - A. Initial Search and Attack
 - B. Multi Story Housing Facilities, gives the ability to Extinguish or Control a fire in lieu of a hand line or while a hand line is being deployed. If no hand line is needed it gets the truck in service more quickly.
 - Chiefs Trucks- (Good Attack and Knock down while Truck is on the way)
 - UTV/ATV/Golf Cart/ Supervisors Truck
 - Fire Watch- Industrial
 - Agricultural and Earth Moving Equipment (Farming, Mining, Construction)

- 10 Gallon and 30 Skid
 - Rescue/Heavy Rescue-With or Without Water
 - A. Gives a Truck with no Pump a good Firefighting option in a small package.
 - B. Easy to lay down a foam blanket to safe off exposed fuel when vehicle extrication is needed.
 - C. Easier and less time consuming to pick up/ clean up then full-fledged foam operation (Truck, Foam System, Handline, etc.)
 - Chiefs Trucks- (Good Attack and Knock down while Truck is on the way)
 - Brush Rigs
 - UTV/ATV/Golf Cart/ Supervisors Truck
 - High Risk Areas-(Industrial)
 - Agricultural and Earth Moving Equipment (Farming, Mining, Construction)

- 60 Cart/Skid and 200 Gallon
 - Rescue/Brush/Rapid Intervention Vehicles
 - Tiller Truck or other Role-Playing Trucks with No Pump or Water
 - 200 Gallon + Large Pick-up = Industrial Fire Truck/RIV Truck
 - 60 Carts great options for Factories and other High Risk Industrial areas (Fuel Storage, Hydraulic Equipment, Pulp/Paper, etc.)

7

Components Build Option

- All units but the 3 gallon can be built as components
- Allows for customization without price increase, components can be mounted in different places to better fit the customer's specific requirements.
- Unit shipped with Tank, Top Cover, Air Inlet Port and Discharge Outlet Port
- Customer Mounts and Sources Hoses to make Air Inlet and Discharge Outlet connections.
- Can be done with 10, 30, 60, and 200-gallon sizes