



# Compressed Air Foam Systems



UV SmartCAFS

## Why should you be using CAFS?

A Compressed Air Foam System simultaneously attacks all sides of the fire triangle.

- **Penetrates** and soaks the fuel
- **Decreases** the fuel's exposure to oxygen
- **Adheres** to surfaces to reduce heat

Attacking a fire using CAFS reduces the amount of time to knockdown a fire by as much as 5 times over plain water. This equates to **less** fire fighter exposure, **less** water usage, **less** harmful runoff, and **less** required overhaul.

### What is your primary asset?

It's your fire fighters. CAFS helps keep them safer in the hostile environment of a fire scene and **reduces** attack times, **reduces** flashover, **reduces** hose line weight, and **reduces** exposure and fatigue. Protect your biggest asset with CAFS.

## You should be using UV SmartCAFS!

UV SmartCAFS is a Compressed Air Foam System that works **smarter** for you. Using a Compressed Air Foam System has traditionally been a complex and daunting task with many sequentially specialised steps. Successfully balancing the water pump, foam system, and air system so they work effectively together can be downright frustrating.

The days of intimidating CAFS are over. UV SmartCAFS executes all of these functions for your operator and completely simplifies the CAFS procedure. The fully programmable presets allow your department to set CAFS configurations for numerous fire scenarios making it easier than ever to operate a Compressed Air Foam System.

*UV SmartCAFS takes the guesswork out of setup and allows you to focus on fighting fire.*

- Intuitive interface
- Advanced safety interlocks
- Communicates with Class1 Sentry Governor
- Best in class color display
- Capable of multi-languages

*UV SmartCAFS safeguards itself so that it is ready when you are.*

- Prevents mixing of A and B foam types
- On screen maintenance minders
- Full system data logging
- IP67 protection

*UV SmartCAFS is the most flexible CAF System in the fire service.*

- Ten customisable presets
- Full range of CAFS from wet (1:3) to dry (1:20)
- 14 button, 178 mm (7") screen (UV700)



# UV SmartCAFS Prima Rear Mount System

The Prima UV SmartCAFS is a compact package designed for rear mount pump apparatus. The rear mount option provides unmatched pump operator situational awareness and allows full view of both sides of the vehicle.

## Large range of pump options

- Select one of our fully EN 1028 compliant PTO driven Godiva rear mount pumps: Prima 2010, 3010, 4010, or 6010
- SmartGOV -separate UV700 screen for engine control
- Twister - dedicated throttle control for engine speed

## Choice of air flow volumes

- 1440 L/min, 2880 L/min, 5760 L/min twin-screw rotary air compressors provides knockdown power to match the pump

## Fully integrated

- The system is mounted on the Godiva pump and fully tested to ensure quality and provide trouble-free operation with full compliance to EN1028, EN16327 (CAFS), NFPA and ISO

## Compact arrangement

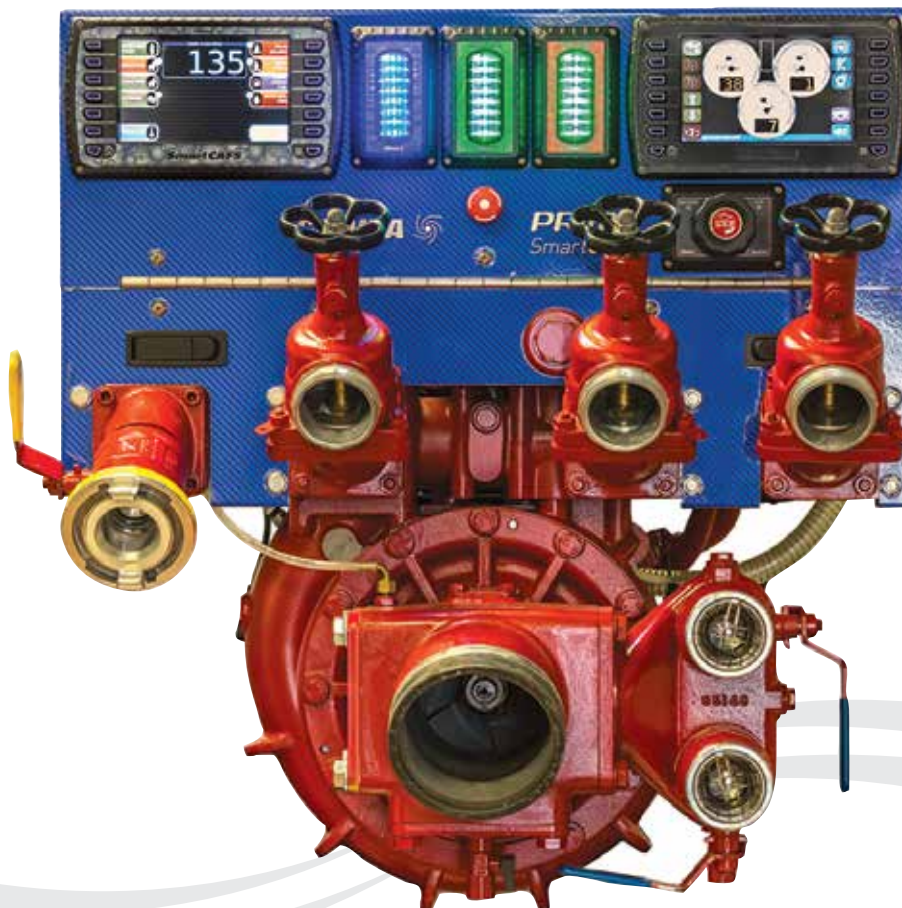
- Offers more transverse apparatus storage

## Easy Operation

- Changes to CAFS consistency are as easy as the push of a button

## Typical UV SmartCAFS Firefighting Applications

- Municipal engine with single or dual foam concentrate reservoir requirements
- Wildland engine with class “A” foam concentrate requirement



## Prima Rear Mount CAFS Specifications

### Air System Specifications:

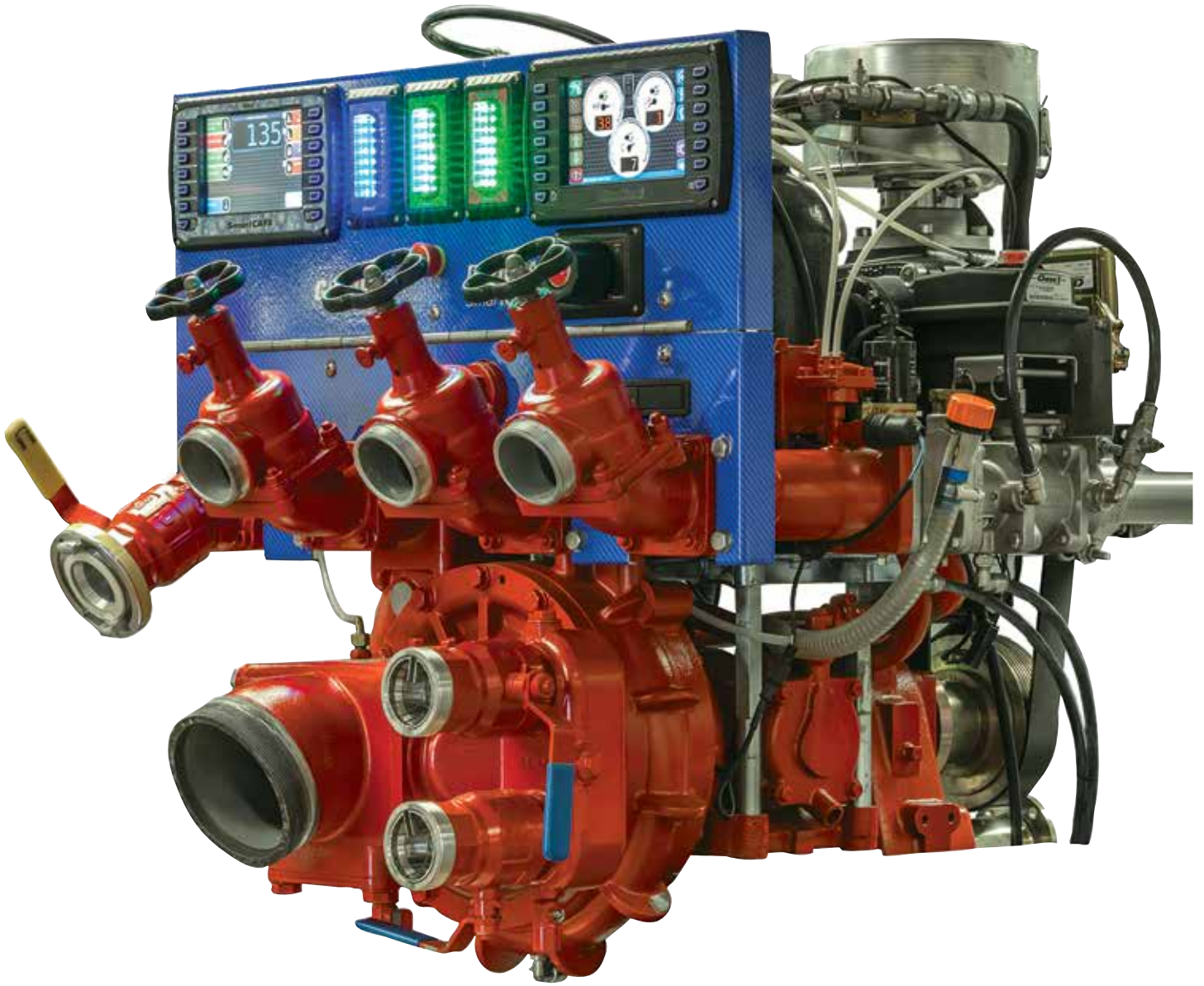
Maximum operating pressure	10 BAR
Minimum operating pressure	4 BAR
Nominal air flow at maximum pressure	1440 L/min, 2880 L/min, 5760 L/min
Air ratio range (solution to air)	1:3 (wet) to 1:20 (dry)

### Foam System Specifications:

Foam pump options	2.1 piston pump, dual plunger 3.3, 5.0, 6.5 rotary gear positive displacement	Foam concentrate outputs
Maximum operating pressure	27.6 BAR (3.3), 17.2 BAR (2.1, 5.0), 13.8 BAR (6.5)	2.1A - 8 L/min
Maximum current draw (12V)	40 Amps (2.1), 60 Amps (3.3, 5.0), 90 Amps (6.5), 180 Amps (Twin 6.5)	3.3 - 12 L/min
Maximum current draw (24V)	20 Amps (2.1), 30 Amps (3.3, 5.0), 45 Amps (6.5), 90 Amps (Twin 6.5)	5.0 - 19 L/min
Operating current draw (12V)	25 Amps (2.1), 30 Amps (3.3, 5.0), 40 Amps (6.5), 80 Amps (Twin 6.5)	6.5 - 25 L/min
Operating current draw (24V)	13 Amps (2.1), 15 Amps (3.3, 5.0), 20 Amps (6.5), 40 Amps (Twin 6.5)	Twin 6.5 - 50 L/min

### Water Pump Specifications:

Water pump options (EN1028)	Prima 2010, 3010, 4010, 6010 (Single pressure P1 or multi-pressure P2)
Water flow rate (2010) @ 3m lift	2000 L./min @ 10 BAR
Water flow rate (3010) @ 3m lift	3000 L/min @ 10 BAR
Water flow rate (4010) @ 3m lift	4000 L/min @ 10 BAR
Water flow rate (6010) @ 3m lift	6000 L/min @ 10 BAR
P2 multi-pressure water flow rate for high pressure	250 L/min @ 40 BAR (All models)
Maximum operating pressure	17 BAR (P1), 54.5 BAR (P2)



## UV SmartCAFS Accessories

### EZ-Fill Foam Reservoir Refill System

EZ-Fill is an easy-to-operate fixed-mount 12 or 24 volt drive 19 L/min foam tank refill pump system. EZ-Fill features push-button smart-switch technology. Just press the “Fill” or “Flush” button and the unit will operate either filling the foam concentrate reservoir or running through a flush cycle. The unit is self-priming and will automatically shut off after 60 seconds or when the foam concentrate reservoir is full. The system can be ordered for either a single-tank or dual-tank foam concentrate reservoir system.

- **Electronic three-way valve** switches the system from “Fill” to the “Flush” function and back again
- **Configured wiring harness** for easy installation
- **Configurations include** dual foam concentrate reservoir refill for Class “A” and “B” foams
- **Cam-lock quick connect suction hose** designed for pail drafting operations. Suction hose is equipped with integral strainer to prevent intake of unwanted debris
- **Class1 Smart-Switch panel control** takes up less valuable pump panel real estate compared to other brands
- **Push button control** Smart-Switch automatically stops foam pump after 60 seconds or when the foam reservoir is full



### Air Dual Tank Selector (ADT)

The Air Dual Tank (ADT) valve is an air operated foam tank selector valve that enables selection of foam concentrate dependent on fireground operational demands.

- The ADT is an integral part of the foam pump and provides an electrical interlock for the low tank level sensors and concentrate injection rate
- A panel mounted selector toggle switch with indicator lights controls foam concentrate tank selection and shows which foam concentrate tank is in use

## UV SmartCAFS Accessories

### Manual Dual Tank Selector (MDTII)

The Manual Dual Tank (MDT II) selector valve is available for the UV SmartCAFS and SmartFOAM systems with dual tanks. The MDT II is a panel mounted, manually operated selector that provides selection of foam concentrate dependent on fire ground operational demands. The MDT II also provides an electrical interlock for the low tank level sensors and concentrate injection rate. The MDT II is not suitable for top mount operator panel installations and some side operator panels due to gravity feed requirements of foam concentrate to the foam pump.



### Manual Single Tank Selector (MST)

Single tank UV SmartCAFS and SmartFOAM systems can be configured with a Manual Single Tank (MST) selector, which provides a flush function connection to the foam system electronic controls.



### Low Pressure Strainer

A low pressure foam concentrate strainer is mounted at the inlet of the foam pump. The strainer protects the pump from debris that might accumulate in the foam concentrate tank.

- Composite non-metallic housing with stainless steel mesh strainer element and includes a service shut-off valve
- Offers 1/2" NPT (13 mm) threads, with a fitting to connect a 1/2" (13 mm) ID foam concentrate suction hose
- Low pressure devices are designed for installations where the strainer IS NOT subject to HIGH pressure flushing water





UV SmartCAFS on a midship mounted Hale DSD pump

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