

# Industrial Fire's compressed air foam system (CAFS) wildland interface pumper



**A**s we have recently witnessed, the wildland fires are growing in veracity and in number, year-on-year. These wildland fires are proving to be a high-level risk and threat in the wildland/rural; wildland/mining; wildland/suburban interface. The mitigation of these interface fires requires specialised and effective firefighting vehicles.

In this regard, Industrial Fire and Hazard Control has recently launched the CAFS Wildland Interface Pumper that is highly mobile and versatile to mitigate the most extreme interface fires.

The CAFS Wildland Interface Pumper is based on a 4x4 chassis offering exceptional off-road capability to ensure that the unit arrives at the incident safely and in the least possible time. Firefighting is all about time management and

the design of the CAFS Wildland Interface Pumper takes this factor into consideration for all aspects of the operational application.

The inclusion of CAFS offers the following advantages:

#### **Increased fire suppression efficiency**

CAFS produces foam that has better heat-absorbing and penetrating properties compared to water alone. This results in more efficient fire suppression, as the foam can quickly smother flames and cool down hot surfaces, leading to faster extinguishment.

#### **Enhanced firefighter safety**

The foam produced by CAFS creates a barrier between firefighters and the fire, reducing the heat and radiant energy they are exposed to. This enhanced safety margin allows firefighters to get closer to the fire for more effective firefighting without compromising their safety.

#### **Reduced water usage**

CAFS uses less water than traditional firefighting methods. The foam's expansion properties allow it to cover a larger surface area with less water, making it especially valuable in situations where water supply might be limited.

#### **Improved penetration**

Foam generated by CAFS has better penetration capabilities, enabling it to reach hidden fire sources within materials like wood, fabrics and insulation. This helps ensure that fires are fully extinguished and reduces the risk of rekindling.

#### **Ember and heat control**

CAFS is effective in suppressing embers and controlling heat, making it useful in mitigating spot fires, preventing flare-ups and reducing the potential for fires to spread.

#### **Versatility**

CAFS can be used for various types ▶

## Wildfires



- Darley HM500 PTO driven pump
- Darley Hornet CAFS system
- Front mounted electric winch
- HyperSight thermal camera mounted on the bumper turret with monitor in cab
- Front spray bar, cab spray bar and undertruck nozzles
- Side pump control panel
- Trident Foamate #1.5 around-the-pump foam system
- Dual electric rewind hose reels
- 38mm CAFS crosslay
- 5 000 litre all polypropylene water tank
- 250 litres Class A foam tank (Silvex Class A)
- 250 litres Class B foam tank (Hydral 3C AFFF)
- Heavy duty aluminium extruded body
- Three compartments each side
- Slide-out and drop-down steps for access to the compartments
- Electric foam transfer pump for rapid refilling of the foam tanks

► of fires, including structural, wildland and vehicle fires.

### Effective for Class A and Class B fires

CAFS is suitable for both Class A (ordinary combustibles) and Class B (flammable liquids and gasses) fires. This versatility allows firefighters to address different fire types with the same system.

### Reduced water damage

The foam produced by CAFS clings to surfaces and creates a barrier that prevents excessive water runoff. This helps reduce water damage to structures and contents, which is especially important in situations where property preservation is a concern.

### Increased knockdown power

CAFS provides quicker knockdown

of fires due to its expanded foam's ability to encapsulate and smother flames. This can lead to faster control of fire situations, minimising property damage.

Supports eco-friendly practices  
The reduced water usage of CAFS can help conserve water resources.

The CAFS Wildland Interface Pumper features the following firefighting capabilities:

- Electric operated Elkhart SideWinder EXM2 deck gun operated by means of a joystick from the cab as well as a handheld remote control for operation up to 30m away from the vehicle
- Electric operated Elkhart BrushHawk bumper turret operated from a joystick in the cab

For more information on Industrial Fire's CAFS Wildland Interface Pumper, please do not hesitate to reach out to:

**Abrie Dempers:** cell 078 159 4845 or email: [abrie@industrialfire.co.za](mailto:abrie@industrialfire.co.za)

**Lee Marques:** cell: 061 225 2710 or email: [lee@industrialfire.co.za](mailto:lee@industrialfire.co.za)

**Zarto Williams:** cell: 061 158 6941 or email: [zarto@industrialfire.co.za](mailto:zarto@industrialfire.co.za)

**Trevor Fiford:** cell: 082 651 2580 or email: [trevor@industrialfire.co.za](mailto:trevor@industrialfire.co.za) ⚠

