



## Video Flame Detection & High Expansion Foam Fire Protection Solution

Certain applications where hazardous or explosive chemicals and fuels are present require specialized technologies for effective fire protection. Viking Integrated Safety has the detection and suppression technologies that not only provides comprehensive fire protection but also eliminates disasters.

Viking VSF30X detectors are explosion-proof intelligent video flame detectors capable of detecting a wide variety of hazardous threats. These detectors use advance video content analytics (VCA) to monitor a video feed and identify flames, while eliminating nuisance alarms characteristic of multi-spectrum IR detectors, like sun glare, radiant heat, or welding arcs.

Viking High Expansion Foam generators are uniquely designed to aerate foam with no moving parts or external power requirements. The expanded foam, from which the film is drained, forms a stable blanket that suppresses the release of flammable vapors and cools down the fuel surface, extinguishing the fire and preventing re-ignition. The stable bubbles feature expansion rates in excess of 830-to-1.

### Use Case — Military Aircraft Hangars

Military aircraft housed and serviced inside hangars will frequently need to power-up engines leading to high-heat exhaust plumes. Multi-spectrum IR flame detectors will easily false-alarm due to the radiant heat. Service tasks like welding can also create false alarms. Video flame detectors are ideal for areas enveloping the aircraft service field-of-view to prevent accidental suppression which could threaten lives and expensive assets.

Viking Hi-Ex foam puts out fires by cooling the flame, suppressing vapors, and smothering. Our systems fully comply with NFPA 409 and are highly effective in aircraft hangars.

The combination of video flame detection, which will accurately detect threats while mitigating accidental suppression activation, and Hi-Ex foam suppression systems, will ensure personnel, aircraft, and facility are reliably protected.

VIS provides complete design and deployment support, and our solutions are available through Viking SupplyNet, which has world-class logistics, and regional locations across the globe.

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#### Detectors:

- VSF300 Video Flame
- VSF301 Video Flame
- VSF303 IR3 Flame



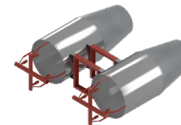
#### Releasing Control Panel:

- Viking VFR400



#### Foam Bladder Tanks:

- 5-4000 USG Vertical
- 50-5250 USG Horizontal
- 175 psi & 232 psi



#### Foam Generator:

- High expansion rate
- 234 GPM @ 40 PSI (paired)



#### Proportioning Devices:

- 2" to 8" Ratio Controller
- 3" to 8" ILBP



- 3% XMax High Expansion Foam Concentrate

#### Notes:

1. Information is for general reference only. Prior to the design, layout, and/or installation of any system, please refer to Viking's technical documentation and consult with local AHJ.
2. For all applicable approvals, please refer to the technical documentation or contact your local Viking sales office.