



Marriott checks-in HI-FOG® water mist fire suppression to protect guests and minimize water damage

HI-FOG solutions for Marriott

» At a Glance

Less Damage

Aspen Wye River Conference Centers wanted to minimize damage to its buildings, furnishings and equipment. HI-FOG uses 70-90 percent less water than traditional sprinkler systems.

Less Water Infrastructure

The conference center has no access to public water supplies; this is not a problem because HI-FOG draws its own water from compact, on-site tanks.

Flexible Installation

Installers hid the small, bendable stainless steel tubes from view by using crown molding and other design elements, making the system visually non-intrusive to guests of this elegant conference center.

Set on 1,100 acres of pristine land overlooking the Wye River on Maryland's Eastern Shore, the Aspen Wye River Conference Centers, a Marriott conference center, features rustic lodges, contemporary rooms and a state-of-the-art facility offering the very latest audio/visual equipment. Whether travelers visit Wye River for a wedding, business meeting or executive retreat, everyone relies on Marriott to keep them safe – and Marriott relies on HI-FOG.



Business Challenges

Aspen Wye River Conference Centers' unique and spectacular retreat posed considerable challenges for a fire protection system. The solution had to protect guests and minimize water damage to the buildings. "Our buildings are historic and irreplaceable. In my opinion, »

"Our buildings are historic... In my opinion, water does more damage than the fire."

– Dan McKelvy, Director of Engineering, Aspen Wye River Marriott Conference Center



» water does more damage than the fire,” said Dan McKelvy, Director of Engineering, Aspen Wye River Marriott Conference Center.

“Because of the smaller tubes, HI-FOG was easy to install.”

The picturesque conference center is located in a remote section of Maryland – that’s part of the charm of Wye River and the challenge of protecting it from fire. “We are in a remote area and can’t draw water from a public supply,” says McKelvy. Because this elegant business and hospitality complex attracts discriminating clientele, the

fire suppression system needed to be visually discreet. “We could have redesigned and continued using our existing sprinkler system, but that would have meant installing a 27,000-gallon water tank. I don’t like the idea of having a big tank sitting in the middle of this beautiful setting. You can’t make a water tank look good.”

The HI-FOG Solution

Marioff’s HI-FOG uses 70-90 percent less water than traditional sprinklers; less water means less damage, faster cleanup and minimal business interruption. HI-FOG draws clean water from compact, on-site tanks that can be hidden from view. The system’s small, bendable stainless steel tubes are easy to install, low-profile and can be tucked behind a variety of design elements, such as crown molding, that preserve building aesthetics.



HI-FOG uses high pressure to force pure, potable water through specially designed and patented sprinklers. The resulting mist, consisting of fine droplets, suppresses or extinguishes fires by cooling the fire itself and the air surrounding it, blocking the radiant heat and [locally] displacing the oxygen from the seat of the fire. The small droplets vaporize fast, absorbing heat very efficiently and ensuring safe evacuation of the occupants.



“HI-FOG completely puts out the fire by displacement of oxygen [localizing] as opposed to flooding it and soaking everything – that’s the biggest benefit for me – to prevent water damage.”

The HI-FOG system is an important fire protection solution in areas where water is expensive, in short supply, not readily available, or where water pressure is low. HI-FOG also eliminates the need to extend water lines or increase water pressure.

Results

HI-FOG is currently protecting guests in Wye River’s *Houghton House*, a complex of four buildings including 26 guest rooms and a conference center. Officials have such confidence in HI-FOG, they are considering an installation in *River House*, another complex of four buildings including 26 guest rooms, a conference room and utility building.

“HI-FOG completely puts out the fire by displacement of oxygen [localizing] as opposed to flooding it and soaking everything – that’s the biggest benefit for me – to prevent water damage. I have enough confidence in the system that I’m recommending it for our other projects. Hopefully I’ll never see it work, but I know it will if we need it,” stated McKelvy.

Marioff

A UTC Fire & Security Company

Marioff North America
400 Main Street
Ashland, MA 01721, USA
Tel. 800-654-7763
Email: info@marioff.net
www.marioff.com

Information on Marioff group companies, agents/distributors and references can be found at www.marioff.com.

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