

VIPER Fire Lance System

The VIPER Fire Lance System is a controllable offensive exterior firefighting tool designed to deliver extinguishing agents precisely into concealed fire zones. Developed as a next-generation evolution of traditional piercing nozzles, it enables operators to actively direct the extinguishing medium throughout the fire compartment, significantly increasing suppression efficiency compared to conventional fog nails.

The system allows accurate targeting of hot gases and pyrolysing surfaces, ensuring effective cooling and fire control within enclosed or hidden spaces. Unlike traditional fixed-pattern solutions, VIPER provides controlled distribution of the extinguishing agent across a wide area, improving coverage of both gases and structural surfaces.

Designed for versatility, the VIPER system supports multiple extinguishing media, including water, foam, dry powder, and CAFS. It is available in different lengths, enabling effective penetration through walls, roofs, and insulated structures, as well as access to deep cavities such as attics or industrial voids. With reach capabilities extending up to approximately 12 metres, the system is suitable for both residential and large-scale industrial applications.

KEY FEATURES

- Controllable piercing nozzle for targeted exterior firefighting
- Active distribution of extinguishing agent across entire fire compartment
- Compatible with water, foam, dry powder, and CAFS systems
- Available in multiple lengths for structural penetration and deep access
- Extended reach up to approx. 12 m for cavities and industrial spaces
- Significantly improved coverage compared to traditional fog nails
- Enables safe operation without interior entry

PRIMARY APPLICATIONS

- Offensive exterior firefighting
- Structural fires
- Attic and cavity fires
- Insulated buildings
- Industrial halls
- Hidden fire spread scenarios



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TECHNICAL DATA

Specification	Value
Product Type	Controllable piercing nozzle
Flow Rate	Approx. 70–115 L/min (depending on pressure and nozzle head)
Extinguishing Media	Water • Foam • Dry powder • CAFS
Maximum Reach	Up to ~12 m
Available Lengths	Short (wall / roof / window) • Long (cavities / insulation / industrial spaces)
Application Method	Piercing • Injection • Directed distribution
Coverage Principle	Active spreading across gases and surfaces
Nozzle Head Options	Multiple configurations (to be confirmed)
Accessories	Powder hose • Tree jack adapter • Custom adapters
Installation Method	Through walls • roofs • ceilings • window frames
Country of Origin	Finland

PRODUCT-MARKET INSIGHT

As firefighting tactics increasingly prioritise exterior attack and firefighter safety, tools that enable controlled suppression without interior entry are becoming essential. The VIPER system represents a significant advancement over traditional piercing nozzles, offering enhanced reach, multi-agent compatibility, and superior extinguishing coverage, making it a valuable asset for modern fire and rescue operations.

