

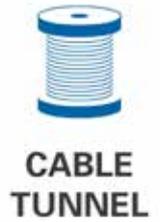
**"I wish I could  
get greater  
cable tunnel  
protection  
with less impact."**

**"I wish** I could protect my cable tunnel with a third-party tested solution **that reduces space demand and damages."**

CABLETUNNEL ENGINEER

## AquaMist ULF for Cable Tunnels

Rapid suppression.  
Minimal disruption.



AquaMist ULF for cable tunnels is a low pressure fire suppression water mist system with a high cooling effect, low water consumption, and minimal impact in the protected area.

**Wish granted!**



### BENEFITS

AquaMist's small water droplets have a high cooling effect to quickly remove heat from the fire.

Small water droplets can more easily move past obstructions to reach the fire.

AquaMist ULF can minimize post-discharge water treatment and clean-up costs.

Less water demand can result in

Smaller storage tanks

Smaller, less costly pumps

Smaller diameter pipes

Less clean up

### FEATURES

Complete system design (pipe, pump, detection)

Extensive third-party testing and validation

More compact components can reduce space requirements and facilitate installation

Lower installation costs compared to high-pressure systems

Can be configured for zoned area protection

Optional fully integrated solution designed to guarantee compatibility between detection and suppression systems

Can be integrated with other protected areas (e.g., machinery spaces) of same system

Visit [www.tycoaquamist.com](http://www.tycoaquamist.com) for more information

**PROTECTING CRUCIAL RESOURCES**

Modern cities depend on the integrity of cable tunnels. Underground tunnels can extend for long distances and are part of the vital information and energy infrastructure that serves commercial, industrial and residential needs.

**PROMPT SUPPRESSION IS VITAL**

Rapid suppression is required to limit the immediate effects of a cable tunnel fire.

Structural damage

Temperature control

**MINIMAL DISRUPTION IS ESSENTIAL**

The impact of a cable tunnel fire can have serious economic consequences that exceed the expense of the physical damage.

Business interruption

Cable replacement cost

**MEETING THE UNIQUE CHALLENGES IS KEY**

Cable tunnels are ventilated and not air-tight, limiting fire extinguishing system options.

Highly obstructed environments make it difficult to get suppressant onto the fire

Rubber-coated cables produce thick, toxic smoke when they burn

Length of tunnels requires a zoned approach to fire containment and suppression

Heat and smoke conditions in the constrained environment make access difficult for first responders



**Nozzle AM4**

Low pressure nozzles utilizing a single fluid jet impinging on a diffuser to produce a range of water droplet sizes to reduce heat and penetrate the fire zone.

Nozzles have been through rigorous component testing aimed to ensure they are fit for installation in challenging environmental conditions.

**NOZZLE AM4 TECH DATA**

K = 3.5 lpm/bar<sup>1/2</sup>

K=0.24 GPM/psi<sup>1/2</sup>

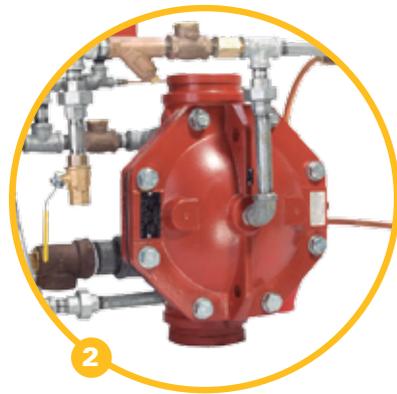
Minimum Pressure: 12 bar

Nozzle Flow rate: 12.2 lpm

Water density of 8 liters per min/m

½ inch NPT Thread Connection

Stainless Steel



**Valves**

Electrically operated Deluge valve with a pressure rating of 17.2bar. Valves are FM/LPCB/C-UL approved.



**Pump Skid**

The TYCO AQUAMIST Mist Control Center (MCC) Pump Skid Unit is a pre-assembled, self-contained, control center for the AQUAMIST ULF System designed to meet the most stringent project requirements. The compact skid unit is pre-wired and pre-piped for ease of installation. The MCC is factory assembled, functionally tested, and ready to connect.



**G-Press piping**

Tyco's labor-saving galvanized or stainless steel pipe. Pipe systems are FM/VdS/LPCB approved.



**Detection system**

The reliability and precision of a fire detection system play a key role in the early detection of fire. Tyco offers a full range of detection hardware.



# Global Strength. Local expertise. At your service.

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