



FIRE PROTECTION, NATURALLY

AQUASONIC™ Water-Atomizing Fire Suppression System



by Tyco Fire Suppression & Building Products

YOU'VE NEVER SEEN WATER DO THIS

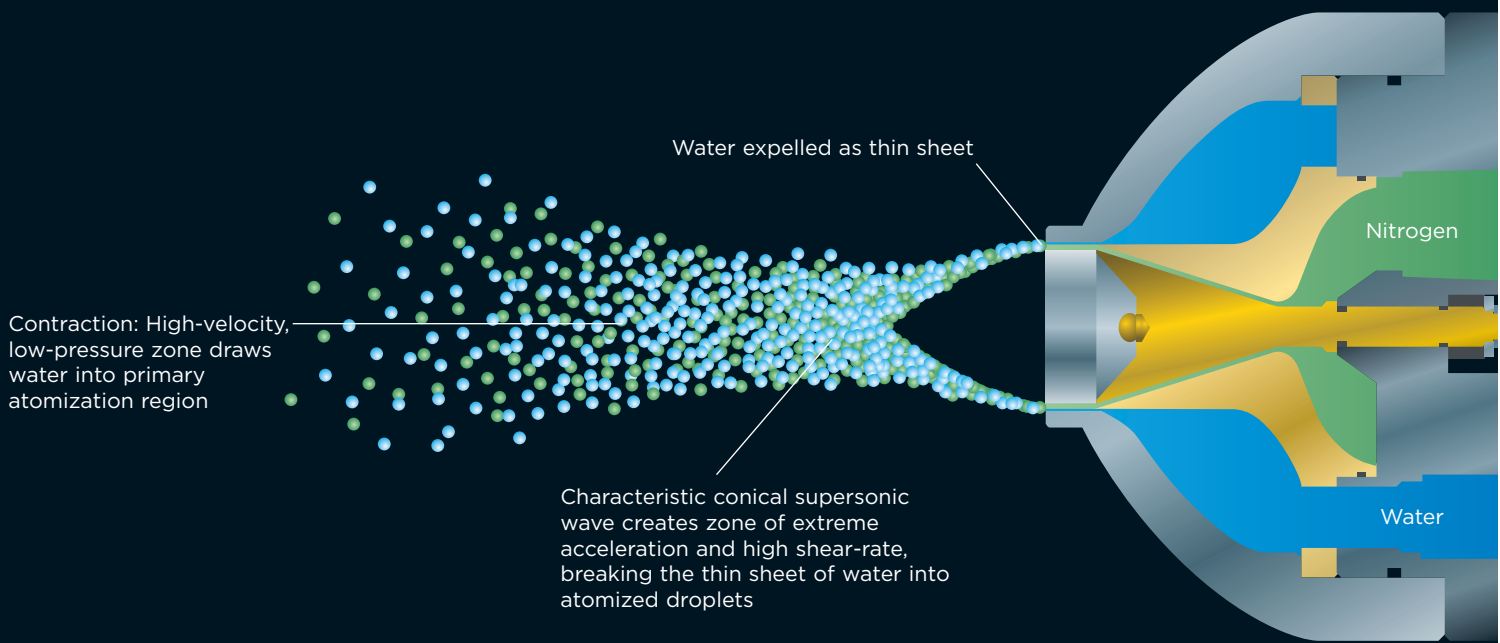
Class B flammable liquid hazards can be protected by the total flooding abilities of the AQUASONIC system. Two supersonic atomizers create 1.5 trillion superfine water droplets per second, producing a combined surface area of 1302 ft² (121 m²) per second. This is equivalent to the surface of an Olympic-size soccer field in one minute. Plus, the atomizers propel the droplets at high velocity throughout the combustion zone.

PRINCIPLES OF OPERATION

The atomizer is the key to the effectiveness of the AQUASONIC system.* Supersonic technology generates a high-velocity, low-pressure zone that draws a thin sheet of water into a primary atomization region. A conical supersonic wave then creates a zone of extreme acceleration and high shear-rate, breaking the sheet into atomized droplets.

*This system should not be used for direct application to materials that react violently with water or produce hazardous products.

AQUASONIC PRINCIPLES OF OPERATION



THIS SYSTEM HAS WHAT IT TAKES

The AQUASONIC atomizer features 100% machined stainless steel construction for superior strength, no internal moving parts for extreme dependability, and multiple mounting options for ease of installation. The AQUASONIC system is constructed of industry-recognized, proven ANSUL components including an ASME/TPED approved stainless steel water storage tank. Capable of automatic detection and actuation and/or remote manual actuation, the system is installed and serviced by authorized ANSUL distributors.

THE AQUASONIC FIRE SUPPRESSION SYSTEM IS:

Fast — high-volume, high-velocity discharge quickly fills spaces

Smart — uses one-third the water of comparable high-pressure water mist systems

Lower Pressure — less than 10% of the pressure required of high-pressure water mist systems

A SMART ALTERNATIVE

Other fire suppression systems can't do what the AQUASONIC system does. Traditional CO₂ systems haven't proven to be people-friendly and single-fluid water mist systems may have reached the limits of their capabilities. The AQUASONIC system knocks down fires better and is safe for people and the environment.

FM APPROVED

The AQUASONIC system extinguished all fire scenarios in the FM Protocol 5560 including scenarios in which extinguishment was not required in order to pass. The AQUASONIC system is FM approved for spaces ranging from 4,591 to 36,727 cubic feet (130 to 1040 cubic meters).



THE AQUASONIC FIRE SUPPRESSION SYSTEM GIVES YOU OPTIONS

In terms of placement, the AQUASONIC system offers maximum flexibility.

- Atomizers can be mounted to ...

The Ceiling — at heights from 9.8 to 26.3 feet (3.0 to 8.0 meters)

The Walls — at heights from 6.7 to 16.4 feet (2.0 to 5.0 meters)

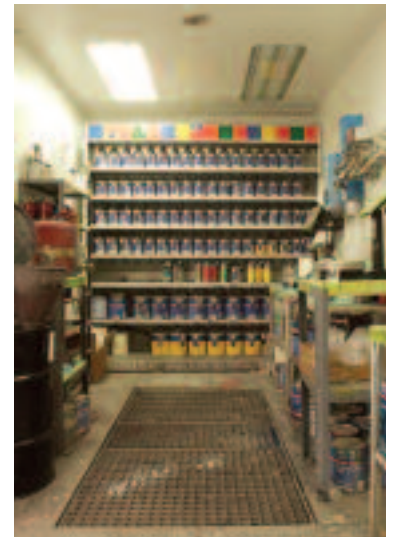
- Selector Valves — Electrical or mechanical options allow protection of multiple hazards using a single system.

IF ANYONE WAS GOING TO DEVELOP A NEW WAY TO USE WATER, IT WAS TYCO

Our innovators continue to lead the fire suppression industry with a full range of quality ANSUL solutions and specialized products backed by a worldwide network of factory-trained distributors — the largest and most qualified in the industry. The AQUASONIC Fire Suppression System is another exclusive innovation in the ANSUL fire protection line. Choose to protect people and assets with the brand you trust. ANSUL.

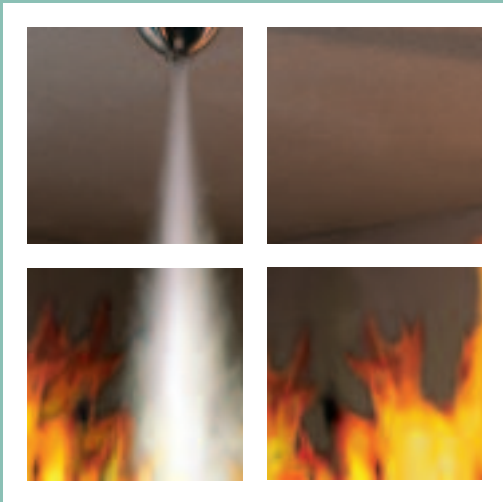
APPLICATIONS:

- MACHINERY AREAS
- INSULATED AND NON-INSULATED COMBUSTION TURBINE ENCLOSURES
- PUMP ROOMS
- GENERATORS
- TRANSFORMER VAULTS
- GEAR BOXES
- OIL PUMPS AND TANKS



A LOOK INSIDE THE INNOVATION

The ANSUL® AQUASONIC™ Water-Atomizing Fire Suppression System is a revolution in Class B fire protection. Compared to typical water mist systems, the AQUASONIC system produces a higher volume of smaller water droplets and projects them further. The high-performance fire suppression system is specifically engineered to cover a wide range of industrial, commercial, and institutional special hazard applications.



The AQUASONIC Fire Suppression System utilizes non-toxic and readily available extinguishing media (water and nitrogen). AQUASONIC twin-fluid technology is safe for people, environment friendly, and inexpensive to recharge. The dependable system has few moving parts and uses tested technology with decades of proven service. Plus, there's no need for enclosure integrity tests, because the AQUASONIC system has been tested and approved with the door open.

FM APPROVED ■ CE MARKED ■ ENVIRONMENTALLY SAFE ■ FULLY SELF-CONTAINED
MINIMAL WATER DISCHARGE ■ EFFECTIVE ON CLASS B FIRES
FLEXIBLE SYSTEM PIPING AND ATOMIZER LOCATION
OPTIMIZED, PROTECTED VOLUME WITH MINIMAL PIPING AND SYSTEM DISCHARGE DEVICES

tyco

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