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## News Release

### **TYCO FIRE PROTECTION PRODUCTS PROTECTS CRITICAL EQUIPMENT**

#### **WITH NEW ACOUSTIC NOZZLE**

Tyco Fire Protection Products has launched its latest innovation for data centre and server room applications. Tyco's new Acoustic Nozzle protects sensitive hard disk drives (HDDs) and data in the event of a suppression system discharging when combating a fire event.

"Electronic equipment has developed rapidly to keep pace with the data centre industry's demands for greater storage capacity and efficiency," comments Miguel Coll, Product Director for Engineered Systems. "These developments have increased the sensitivity of HDDs to noise. Our Acoustic Nozzle is an innovation that reduces the risk of potential damage to HDDs caused by sound and the vibration that occurs when a gaseous fire suppression system is released into the protected room."

Featuring a unique design and effective for use in both 60 and 120 second discharge options, the Acoustic Nozzle, combined with Tyco's INERGEN iFLOW technology, will significantly reduce the sound output from the nozzle. This ensures that in the event of fire suppression system discharge, critical HDD equipment will not suffer potential sound damage leading to unnecessary downtime and risk of data loss. The Acoustic Nozzle system is also easily retrofitted in existing installations through its compatibility with standard piping systems.

"We've invested significant research and development into understanding sound behaviour and how this impacts sensitive electronic equipment," adds Miguel Coll, Product Director for Engineered Systems. "This is supported by our acoustic noise research study with Michigan Tech University in the US. By applying our knowledge and expertise from this research, we can develop the most appropriate solution for a specific application, taking into consideration the equipment and environmental factors."



The Acoustic Nozzle system offers maximum coverage per nozzle of 9.8 x 9.8m (96.04m<sup>2</sup>) and up to a height of 6.1m. In addition to using the Acoustic Nozzle, Tyco recognises that further optimisation will occur through correct placement of the nozzle in relation to the HDDs, as well as the use of sound absorbing construction materials in the room. This further enhances the system performance and limits the risk of damage to hard disk drive equipment. Tyco has developed a model to estimate the sound level experience by HDDs with all these key parameters taken into consideration.

Using data from its research study with Michigan Tech University, Tyco has developed a whitepaper, 'The impact of sound on computer hard disk drives and risk mitigation measures'. This details performance testing, guidance and recommendations on best practice to help reduce the sound exposure of hard disk drives in the event of a fire suppression discharge. To access this resource, along with technical details and further information on the Tyco Acoustic Nozzle, visit [http://hygood.com/index.php?page=product\\_acousticnozzle](http://hygood.com/index.php?page=product_acousticnozzle).

**ENDS**

**Editor's note:**

**About Tyco Fire Protection Products**

Tyco Fire Protection Products is a division of Tyco, the world's largest pure-play fire protection and security company. As an industry leader, Tyco Fire Protection Products uses its global scale and deep expertise to drive innovation, advance safety and solve the unique challenges of customers in more than 190 countries worldwide. Every day, Tyco Fire Protection Products manufactures and delivers an unmatched range of detection and suppression systems, extinguishing agents, sprinkler systems, valves, piping products, fittings, fire-fighting equipment and services that helps its customers save lives and protect property. Its global technology portfolio includes fire suppression, fire detection and mechanical building product offerings sold under many of the world's best-known brands: ANSUL, CHEMGUARD, CWSI, EZCARE, FIRECLASS, FLAMEVISION, GRINNELL, HYGGOOD, LPG, NEURUPPIN, PYRO-CHEM, RAPID RESPONSE, SABOFOAM, SIMPLEX, SKUM, SPRINKCAD, THORN SECURITY, VIGILANT, WILLIAMS FIRE & HAZARD CONTROL, and ZETTLER. For more information, visit [www.tycofsbp.com](http://www.tycofsbp.com).

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