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Quell™ Sprinkler System

Do you have high rack cold storage or an unheated warehouse? Have you been told you need “in-rack sprinklers?” There is another option you may consider.

Tyco, a leading manufacturer of fire suppression system components, introduced the Quell™ Fire Sprinkler System in 2006. The system is specifically designed for use in cold storage or unheated warehouses. The Quell™ system is a preaction and dry system (double interlocked) developed for the protection of high piled storage configurations. It allows for the protection of high piled storage in buildings as high as 48 feet without the need for in-rack sprinklers. Eliminating in-rack sprinklers averts potential accidental discharge caused by sprinkler piping failure or material loading/unloading.

The Quell™ system provides protection for Class I, II, III and Group A plastics. Class I, II and II commodities are protected when stored in single, double or multiple row racks up to an overall storage height of 40 feet in a 48 foot building. It provides protection of Group A Plastics stored in single, double or multiple row racks to up to an overall height of 30 feet in a 35 foot building. This document is not intended to provide details on the engineering or design behind the Quell™ system. Tyco’s Technical Data Sheet number TFP370 entitled “Quell Systems Preaction and Dry Alternatives For Eliminating In-Rack Sprinklers” provides complete design guidelines.

There is now a dry sprinkler solution that does not rely on antifreeze or in-rack sprinklers, which allows the ability to cover higher roof and storage heights. Fires are quickly controlled using a “surround and drown” method, preventing damage to storage facilities and the stored materials.

Tyco claims that the system is more economical to install and requires less maintenance than systems filled with antifreeze. The systems must be installed by a Quell™ licensed installer.

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