



A Greater Degree of Fire Protection

Especially For Cold Storage and Unheated Warehouses

Introducing the *NEW*



The patent-pending Quell™ Fire Sprinkler System is the first of its kind **for cold storage, outdoor and unheated warehouse facilities**. In terms of performance, the Quell™ Fire Sprinkler System effectively addresses a fire with a volume of water with a “surround and drown” configuration to rapidly reduce the heat release rate. This fire protection approach minimizes damage to storage facilities and valuable goods.



Tri-Sealed Grooved Gasket



Red-E Cabinet

Why the Quell™ System is Different and Better

- **Does not require expensive antifreeze**, which can leak and damage storage commodities.
- **Ceiling-only coverage** eliminates costly in-rack sprinklers and increases storage array flexibility.
- Provides the **lowest installation and maintenance costs**.
- Backed by the **industry's best 10-year limited warranty**.
- Provides for the **protection of high piled storage** including single, double and multiple row rack storage as well as palletized and solid piled storage, of up to Class III commodities 40 feet and up to 48 feet building height and Group A cartoned unexpanded plastic commodities 30 feet and up to 35 feet building height.

Truly Innovative Fire Protection. True Bottom-Line Benefits.

The Quell™ System is the total cold storage/outdoor warehouse fire protection solution that delivers advantages in the areas at the top of facilities managers' wish lists: higher-level storage and added hazard configurations. Because the Quell™ System brings new benefits in both areas, this system provides true bottom-line benefits for your unheated storage facility. Now you're ready to stock more commodity classifications, achieve higher roof and storage heights, gain more flexible stocking configurations and reduce installation costs.

Components and Technical Specifications

Ultra K 17 286°F Sprinklers (16.8 K-factor)

- For use in accordance with Quell™ System design criteria (TFP370) and applicable NFPA and FM specific application installation criteria
- Provide higher level of protection than standard spray sprinklers
- Offer an economical advantage by eliminating the need for in-rack sprinklers

SprinkFDT-Q Software

- Allows sprinkler designer to accurately predict time to trip the Pre-Action Valve and deliver water to remote area
- Allows systems over NFPA's 750 gallon volume restrictions to be installed with confidence in the performance

DV-5 Pre-Action Valves

- Diaphragm-type automatic control valves
- Available in 1½" through 8" valves
- Feature just one internal working part and external resetting feature for quick, easy maintenance
- Internal and external Rilsan® coated for corrosion resistance and use in harsh environments

Tri-Seal Gaskets for Grooved Pipe Couplings

- Designed specifically for cold environments to seal gap or gasket cavity in coupling at grooved pipe and fitting connections

QRS Electronic Accelerator

- Quick-opening device reduces operating time of Pre-Action Valve in double interlock, electric/electric preaction system
- Utilizes unique system air pressure monitoring device to continuously sample air pressure twice per second
- When air pressure is determined to have sustained drop exceeding rate of 0.1 psi per second (verified by three consecutive samplings), QRS signals the Releasing Panel energizing the Solenoid Valve on the DV-5

Potter Electric Series PFC-4410-RC Releasing Panel

- Designed with four releasing circuits
- Recommended component
- Added dry contacts for associated alarm and/or equipment shut down

Model DV-5 Pre-Action Red-E Cabinet®

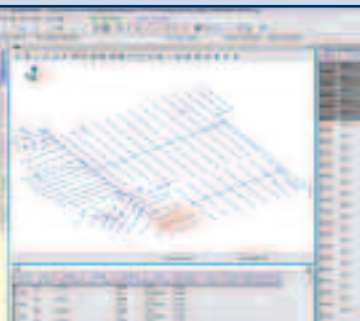
- Houses control and Pre-Action Valves, riser check valve, valve trim, QRS and releasing panel
- Recommended for systems eight inches and smaller
- Custom manufactured and professionally pre-assembled to radically reduce installation time and cost

General's DAP Series Dry Air Pac™

- Provides sprinkler system with moisture free air to -40°F Dew Point
- Removes oil vapor and other contaminants
- Prevents downstream of desiccant dust and regulates air pressure to sprinkler system
- Pre-assembled for ease of installation

Component Approvals – UL, C-UL & FM

SprinkFDT-Q Screen Shot



Ultra K 17 286°F Sprinkler



QRS Electronic Accelerator



DV-5 Pre-Action Valve



Discover

A Greater Degree of Fire Protection Today

You can obtain more detailed information from a Tyco representative by calling 1.800.381.9312. Online, visit www.tyco-fire.com.

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**Call 1.800.381.9312 or visit
www.tyco-fire.com.**



A Greater Degree of Fire Protection

From the Leader in Innovative Fire Protection

For over 125 years, Tyco Fire & Building Products has led the way in fire suppression systems. We produce over 30 million sprinklers each year, with systems installed in thousands of industrial, commercial, institutional and residential facilities worldwide. Over 3,000 skilled Tyco employees are dedicated to the design, manufacture and technical support of fire protection and building systems.

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