



# Fire Sprinkler Systems for Cold Storage and Unheated Warehouses





# Truly Innovative Fire Protection. True Bottom-Line Benefits.

For over a century Wormald has specialised in providing fire protection solutions. When it comes to managing the complexities and risks of industrial facilities, no other company has our depth of experience, knowledge, skills or technology.

At Wormald, our goal is to protect people and property. We are industry leaders across the full spectrum of fire protection system and products.

## Introducing the vanQuish™ fire sprinkler systems

The patent-pending vanQuish™ Fire Sprinkler System is the first of its kind for cold storage, outdoor and unheated warehouse facilities. In terms of performance, the vanQuish™ 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 minimises damage to storage facilities and valuable goods.

## Why the vanQuish™ System is Different and Better

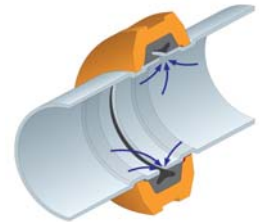
- > Does not require expensive antifreeze, which can leak and damage storage commodities.
- > Ceiling-only coverage *eliminates costly in-rack sprinklers* and increases storage array flexibility.
- > Provides fire protection for category 1, 2 and 3, commodities.
- > Provides the lowest installation and maintenance costs.
- > Backed by the industry’s best 10-year limited warranty.

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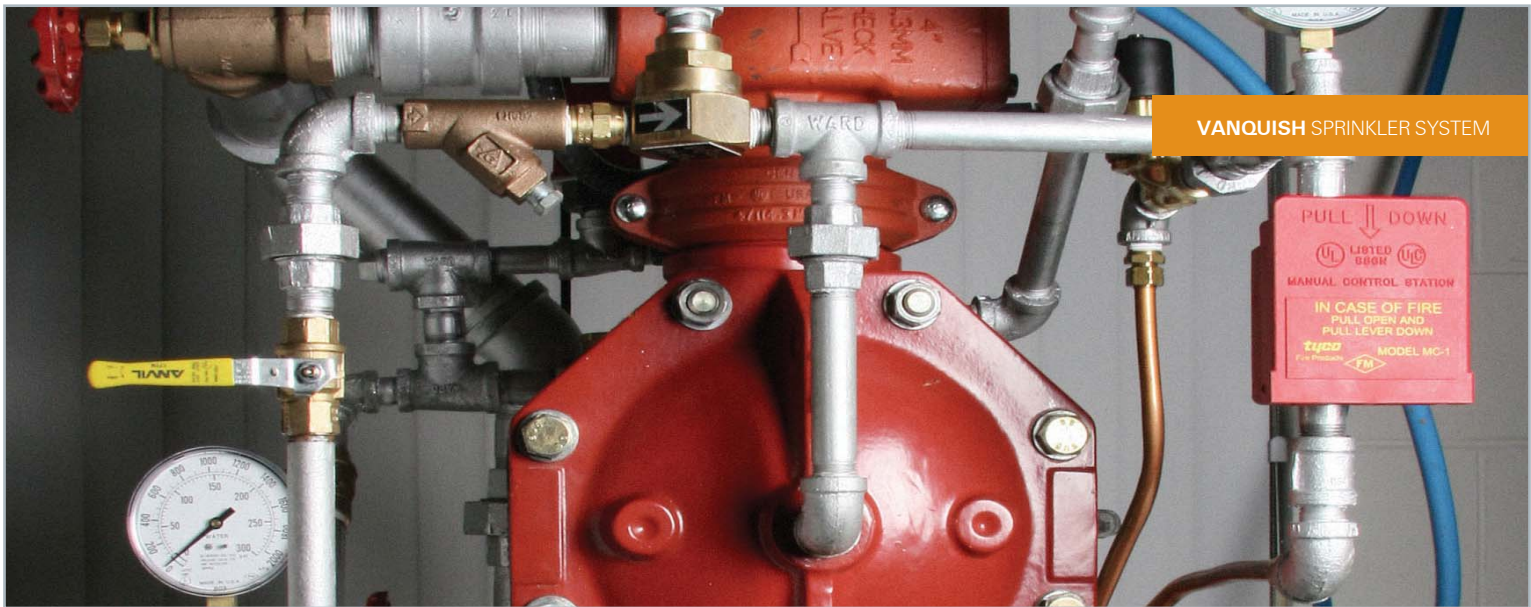
The vanQuish™ System is the total cold storage/ outdoor warehouse fire protection solution that delivers advantages in the areas at the top of facilities managers’ wish lists: higher-level storage and added hazard configurations. Because the vanQuish™ System brings new benefits in both areas, this system 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.



Red-E Cabinet



Tri-Sealed Grooved Gasket



# Components and Technical Specifications

*Fact:  
The vanQuish™  
sprinkler system does  
not require the use of  
in-rack sprinklers.*

## Ultra K 17 141°C Sprinklers (K-24 L/kPa)

- > For use in accordance with vanQuish™ System design criteria (TFP372) 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 2800L volume restrictions to be installed with confidence in the performance

## DV-5 Pre-Action Valves

- > Diaphragm-type automatic control valves
- > Available in 40mm through 200mm 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

- > Utilises 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 0.7kPa per second (verified by three consecutive samplings), QRS signals the Releasing Panel energising the Solenoid Valve on the DV-5

## Potter Electric Series PFC-4410-RC Releasing Panel

- > Designed with four releasing circuits
- > 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 200mm and smaller
- > Custom manufactured and professionally pre-assembled to radically reduce installation time and cost

## Air Compressor and Dryer

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



## Complete fire protection services

### Australasia's leader in fire protection

Wormald can manage all phases of a fire protection project from concept to completion covering risk assessment, design, installation and service. In addition to state-of-the-art systems and equipment, Wormald offers a wide range of specialised services from fire safety audits and alarm monitoring through to all aspects of fire safety training including evacuation procedures, and confined space training for your staff.

As part of the Tyco group, the world's largest fire and security organisation operating in over 80 countries, Wormald has access to a remarkable depth of resources, providing global strength to reinforce our local expertise.

We are proud of our reputation as Australasia's leader in fire protection, and are confident that we play a vital role in preventing or minimising fire damage to your business.

### Fact:

*After a fire, the vanQuish™ system is easily restored and freezer operations returned to normal, as there is no in-rack sprinkler to thaw, drain and/or inspect.*

### Contact Us

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**WORMALD**

A Tyco International Company

  
**vanQuish™**  
FIRE SPRINKLER SYSTEMS  
A Greater Degree of Fire Protection