

Dear friends,

Lately, we've been getting inquiries about the different types of fire sprinkler systems available. Many people simply don't know the various options or what they can do, let alone the advantages and disadvantages of each. This newsletter article will explain the primary differences between the four main types of sprinklers.

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Did You know: There are different types of Fire Sprinkler systems

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Wet Pipe Sprinklers

In wet pipe sprinkler systems, water is constantly maintained throughout. When a fire activates the system, water is immediately discharged from the activated sprinkler. This is the most common type of system.

Dry Pipe Sprinkler

In a dry pipe sprinkler system, air or nitrogen is maintained throughout the piping system. Upon activation, the air or nitrogen is discharged from the system which reduces the pressure allowing water to flow shortly after from the activated system. This system is most commonly used in applications where there is a possibility of pipes freezing.

Pre-Action Sprinklers

Pre-action sprinkler systems are commonly used in areas sensitive to water damage. A Pre-action system works much like a dry system. The system is pressurized with air or nitrogen. However, the pre-action system has a second element before it activates, normally a smoke detector or heat detector. It requires both loss of pressure due to a broken head AND the detector to activate before it allows water into the system. This ensures a state of emergency before water is delivered.

Deluge Sprinklers

Deluge sprinklers are used in high hazard situations and discharge high amounts of water all at once from every sprinkler. Because of this deluge systems require a strong water supply.