



Fire Sprinkler Systems Configurations

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Whether it's about protecting your residential building, warehouse or office tower, Fire Sprinkler Systems are both Fire Detection and Control Systems rolled into one, and thereby the most effective Fire Suppression System available. A Fire Sprinkler System provides an excellent fire safety solution by offering protection, as it suppresses fires with water. It works with a control that constantly monitors temperature and when there is an increase in temperature, the sprinklers are activated, releasing water that drowns out surrounding fires.



Fire sprinklers are the most effective suppression system.

The design of a Fire Sprinkler System is simple; the water attachment is attached to a piping system and a water pump. The sprinkler is installed into the ceiling, with the water-spitting fixture on the inside of the room and the piping system between the ceiling and the roof. There are currently four types of fire sprinkler systems available. These are as follows:

Pre-action Sprinkler Systems

Pre-action Fire Sprinkler Systems are filled with air. When the smoke alarm or detector goes off, water passes through the pipes. This type of system requires two triggers to start water flow. The major benefit of Pre-Action Fire Sprinkler is that, in case of a false alarm or a mechanical failure. The system can be set to prevent water from spouting. The pre-action system is good for use in places where the sprinklers are only necessary when there is an actual fire, so other items in the building do not get water damage from an accidental sprinkling. Such buildings include museums, galleries, libraries and data centres. These places

contain items of high value like electronics and goods damageable by water, such as books. [Find out more about Pre-Action Sprinklers.](#)

Dry Pipe Sprinkler Systems

Dry pipe sprinklers are similar to pre-action systems as they use pressurised air in the pipe which exits before water escapes. This causes a minute delay in water discharge, but is ideal for buildings with low temperatures, so the pipes do not freeze. These fire sprinkler systems have a fast opening tool to get rid of the air and speed up the flow of water. This system is only suitable in cold climates. A good example would be a parking garage with very low overnight temperatures, no heating facilities.

Wet Pipe Sprinkler Systems

The most common type of sprinkler installed in buildings in Australia. Wet Pipe Fire Sprinkler systems constantly have water in them, allowing for a quick reaction to a fire. Commonly found in high-rise or office building with a few floors. This system is cost-efficient and low maintenance.

Deluge Fire Sprinkler Systems

These systems also need a smoke or heat detector, like the pre-action system. A deluge system has open nozzles that can be used when a hazard is present. When flammable liquids are spread across a floor, deluge fire sprinklers are ideal. In that case, buildings such as industrial parks and buildings with many tanks have deluge fire sprinkler systems installed.

Torvac Solutions can assess your property's requirements, providing detailed designs suited to your building and local safety standards requirements. Looking at the building's functionality, occupancy, spatial area and level of fire risk.

Torvac Solutions technicians are highly trained experts in the installation of fire sprinkler systems and are totally compliant with Australian Standard AS2118.5-2008. Australian standards required that you service your system at least once a year to ensure optimum functionality. Torvac Solutions can also repair and maintain all types of commercial, residential and industrial fire sprinklers.

Need to talk to a fire sprinkler system specialist?

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