

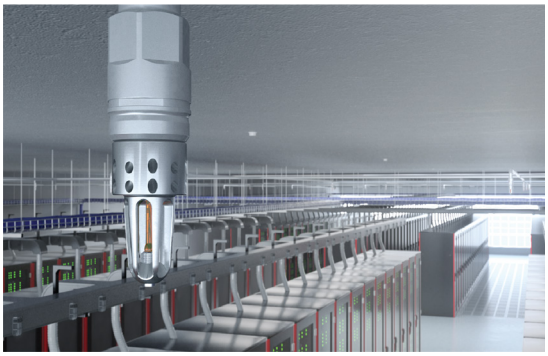
FIRE PROTECTION SOLUTIONS FOR MODERN APPLICATIONS

Allied Pumps is a long-standing supplier of specialised fire protection and pumping equipment to consultants, contractors, and asset owners across Australia.

With more than three decades of experience and in-house assembly capability, we provide reliable, high-quality pumping and mechanical solutions that support a wide range of fire protection system designs.

We are a trusted supplier to fire protection consultants and contractors, providing fully supported equipment solutions for a diverse range of fire suppression and building services applications.





WATER MIST FIRE SUPPRESSION SYSTEMS

As part of our broad fire protection offering, Allied Pumps supplies a range of water mist fire suppression products from leading global manufacturers.

Water mist technology offers high fire-fighting efficiency with significantly reduced water consumption compared to traditional sprinkler systems, making it ideal for applications where water damage, space constraints, or environmental considerations are key factors.

Suitable for both new installations and retrofits, water mist systems provide compact, versatile solutions for a broad range of hazards.

HOW WATER MIST WORKS

When a fire is detected, fine water droplets (typically 50–100 microns) are discharged through specialised nozzles. These droplets:

- Reduce smoke and airborne particles
- Cool the surrounding environment
- Help interrupt combustion conditions
- Absorb heat efficiently

This method provides effective fire control while using substantially less water than conventional sprinkler systems.
(Note: All water mist performance characteristics are based on manufacturer testing and system approvals.)

Allied Pumps

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APPLICATION

Water mist systems are applied across a wide range of industries, including:

SECTOR / APPLICATION	TYPICAL USE CASE
Battery Energy Storage Systems (BESS)	Fire mitigation for lithium-ion storage enclosures
Data Centres & Electrical Rooms	Protection of sensitive electronics with reduced water exposure
Industrial & Process Equipment	Machinery spaces, turbines, generators, and hydraulic systems
Commercial & Heritage Buildings	Discreet protection with minimal aesthetic or structural impact
Food & Beverage Processing	High-risk cooking and processing areas (including grease/oil fire suppression)



Commercial

System configuration — including nozzle spacing, pipework layout, and flow/pressure requirements — is determined by project fire engineers and design consultants.

KEY FEATURES OF WATER MIST SOLUTIONS

- Fine droplets greatly increase heat absorption efficiency
- Rapid activation assists with fire control and heat radiation reduction
- Uses significantly less water than conventional systems
- Suitable for many ventilated or semi-open spaces
- Helps reduce smoke density and improve evacuation conditions
- Environmentally responsible — uses clean water, no stored chemicals
- Compact equipment footprint, stainless-steel pipework options

OUR ROLE IN YOUR WATER MIST PROJECT

- Certified water mist nozzles and system components
- Technical data sheets, product specifications, and design documentation
- Pump selection based on consultant-defined duty requirements
- Pre-assembled pumping skids and control equipment
- Factory acceptance testing of pumping and mechanical assemblies
- Project support during design, procurement, and commissioning



CONTINUING OUR COMMITMENT TO QUALITY

By partnering with recognised water mist technology providers and combining this with our in-house pump assembly capability, Allied Pumps delivers complete and dependable equipment packages that support safe, compliant, and efficient fire protection system designs.