

# Fire protection

## AQ2000 specification

Protecting bin & refuse stores in high-rise buildings

### Design Statement

The AQ2000 is a fully automatic fire suppression system for protecting communal bin rooms where the incidence of fires and therefore risk is high. Using mains water only, the system produces a water mist through specially developed nozzles that are directed into or over the bins. Particularly suited to internal bin storage areas, the system has been installed throughout the UK and Ireland

#### Defined area

As specified communal bin and refuse stores within high-rise or other buildings.

#### System Type

The system is a dry pipe system with electronic controls. Fully monitored for faults to the detection circuits and electrical supply, with battery backup.

#### Misting nozzles

Autoquench misting nozzles narrow or wide angle depending on application. For smaller bin rooms direct acting nozzles are fitted. For larger areas a two-stage strategy is employed whereby the pipe work is primed when smoke is detected, and deployment takes place when one of the automatic thermally activated nozzles, near to the fire opens. In this event only one or two nozzles are likely to operate.

#### Water Supply

Mains water with a minimum pressure of 3 bar. For large bin stores a small tank and pump may be required.

#### Flow rate

Up to 100 lit/min cold water, depending on number and type of nozzles

#### Pipe Work

Approved galvanised pipe work and fittings.

#### Alarm

A latching alarm beacon will be activated in the event of a fire. Additional outputs are available for remote monitoring. The SiteGard alert system is available for fault monitoring using SMS-IOT platform technology.

#### Certification

The finished system will be commissioned by Autoquench or approved installer, who will issue a completion certificate.



#### Note

Servicing is essential to keep the unit working at full efficiency. We recommend that the unit is maintained by a fully qualified Engineer at intervals not exceeding 6 months.