

Datasheet

Tower block bin room fire suppression - Specification

Provision should be made within the bin store of each block to include for the wiring and plumbing associated with an Autoquench AQ2000 bin room fire suppression system. The equipment will detect the early signs of a fire and will spray water into the bin room for a predetermined time in order to extinguish the fire.

The installation shall consist of:

- a) The main AQ2000 control/indicator panel, which will be located within the Caretakers room or other agreed place, local to the bin stores.
This control panel shall be connected to 240vac via a fused spur. Control voltages to system components such as solenoids and smoke detectors are at 24vdc. This voltage will be backed up by integral batteries.
- b) All cabling used will be in British Standard fire resistant cable. Any exposed cables to be mechanically protected using conduit or trunking.
- c) The bin store will have one or two smoke detectors fitted at high level, which are connected in series to the control panel. If two detectors are fitted, one detector is sited near to the chute and 'live' bin, and the other sited centrally on the ceiling to monitor the spare bins. Detectors may be fitted with protective guards.
- d) Annunciators in the form of low voltage buzzers, beacons and sirens if applicable will be located externally to the bin store.
- e) From the mains water connection there will be an isolating valve followed by a check valve, then an in-line filter will be installed followed by an automatic water solenoid valve that will activate the water spray nozzles in the bin room.
- f) Connection to the mains water is made to a common area rising main which can be independent from the water supply to the premises, and is at a size of 3/4" or 1" bsp equivalent, depending on the size of the bin stores and the pressure available. Pipe work will be in galvanised blue gauge with screwed or crimped connections or other material agreed with the client and will give a potential water flow at mains water pressure of approximately 40/litres minute.
- g) Pipe work is installed to allow for one nozzle to be directed downwards over each 'wheelie' bin (pipe work may be ceiling or wall mounted) or one nozzle per square metre for larger bins. Threaded pipe work will be installed with minimum standoffs and will be joined using bundy tape only (no pipe cement).
- h) After commissioning a Completion/Commissioning Certificate will be issued by the installer.

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