

Brominators

Slow dissolving organohalogen compounds in tablet form are used for the background bromination of cooling water systems, ornamental ponds and similar bodies of water.

Unlike chlorine, it continues to be effective in waters with a pH of up to 9.

The product is designed to prevent the growth of biofilms on heat exchange and evaporative surfaces and to control the number of planktonic micro-organisms in the bulk fluid.

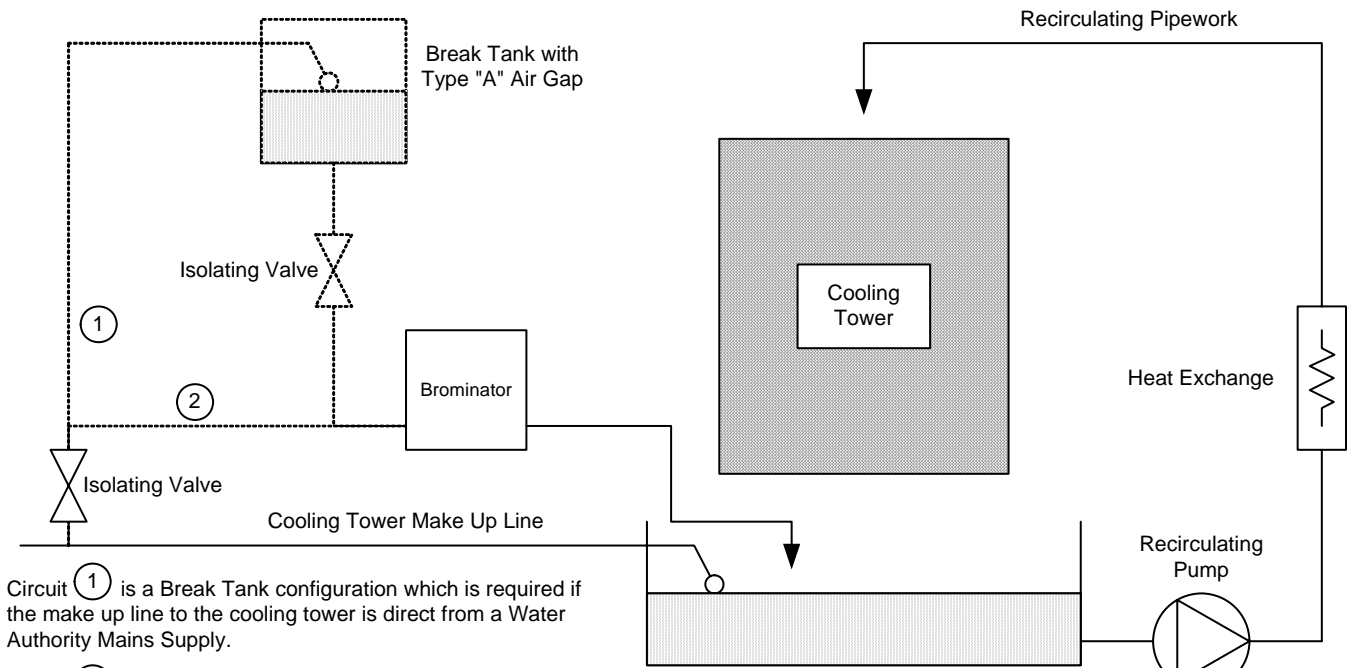
Brominators provide a simple and effective means of controlling the biocidal effect of solid bromine products.



Features

- Three models to suit a wide range of applications.
- Safety automatic locking system. Easy lock lid for total tightness.
- Chemical chamber. Extra large capacity to provide the correct level of protection in all sizes and types of water systems.
- Regulating valve. Easy to use calibrated dial facilitates a wide range of adjustment to achieve optimum dosing rate.
- Drain Plug. To allow for chemical addition, servicing and draining.
- Flow Control. Manual via regulating valve. Automatic via continuous monitoring and solenoid valve.
- Outlet standpipe. Provides bottom to top flow for efficient circulation of concentrated treated water, which automatically expels any entrapped air from the vessel. In addition, top overflow design helps prevent suspended solids contaminants from entering the system.
- Check Valve. Self-cleaning ball check valve to ensure trouble-free venting and prevent system back flow.

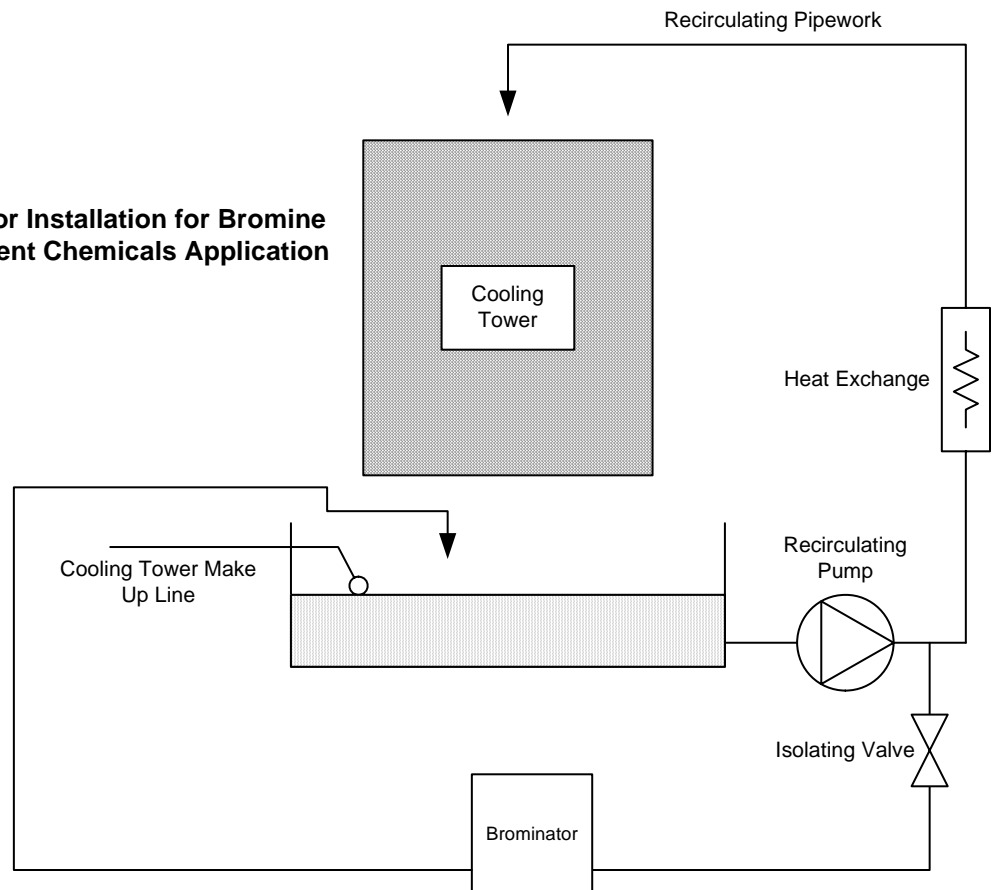
Recommended Brominator Installation for Non-Bromine Compatible Water Treatment Chemicals Application



Circuit ① is a Break Tank configuration which is required if the make up line to the cooling tower is direct from a Water Authority Mains Supply.

Circuit ② is a direct connect configuration for all other types of cooling tower make up lines.

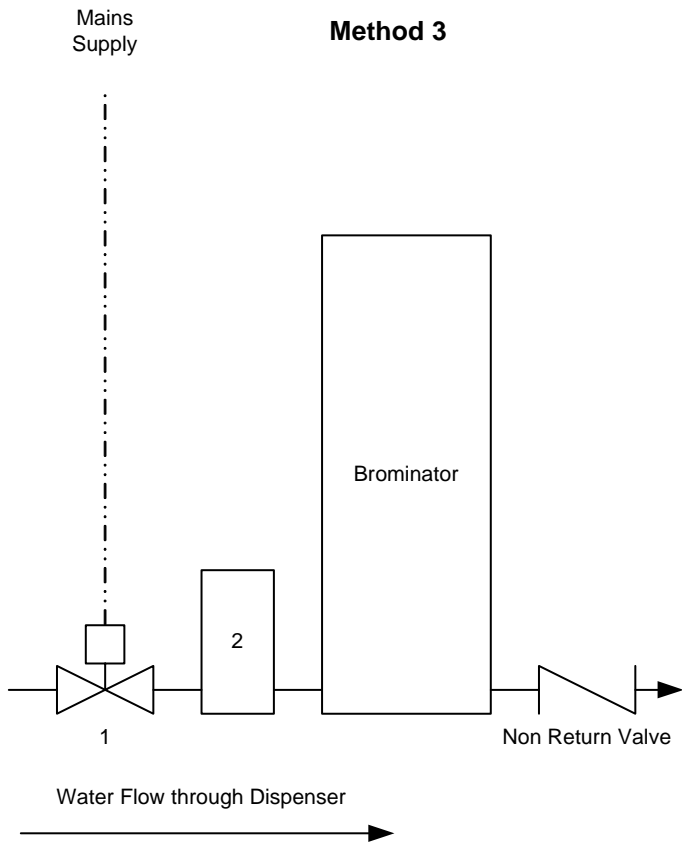
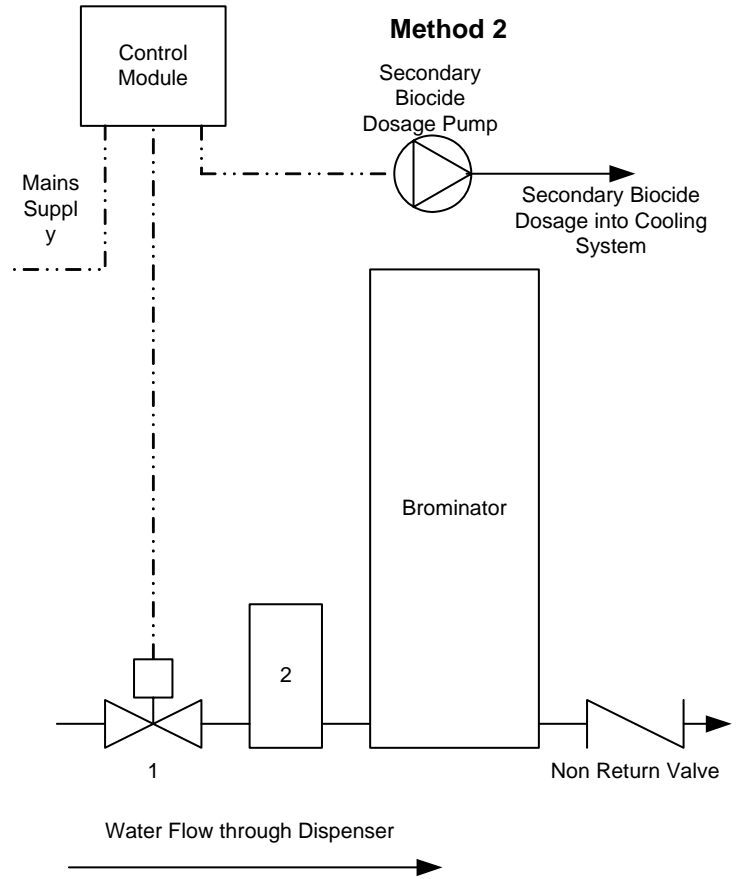
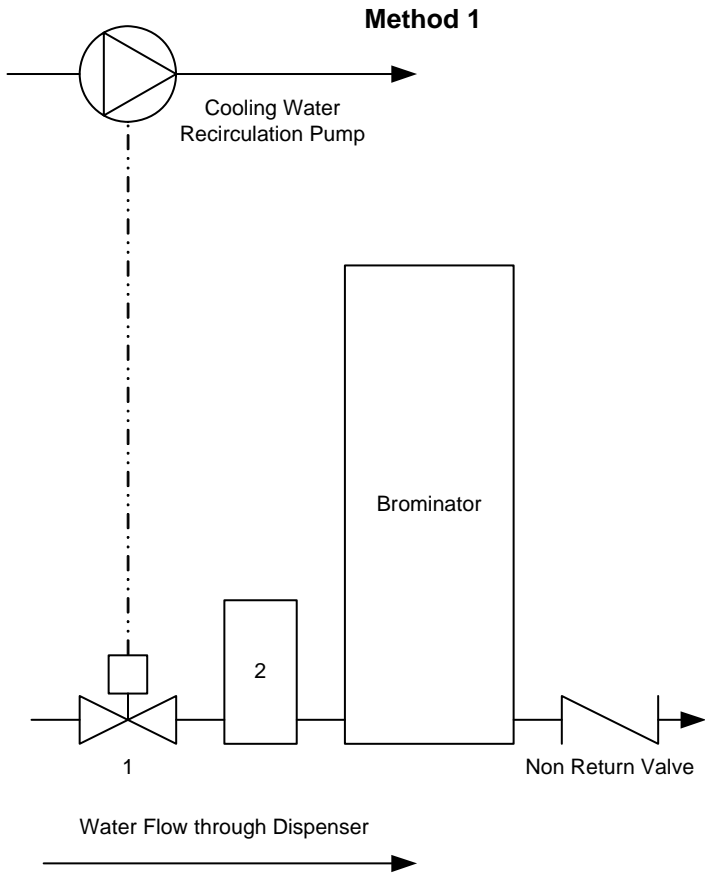
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Notes

1. Product supply will be as detailed in the specification relevant to the particular installation.
2. Additional flow control equipment may be utilised as detailed in the "Flow Control Options" diagram.
3. Brominator outlets should always go to an open end.
4. Provision should be made for water from the brominator drain valve to run to a suitable outlet.
5. Position the brominator on a level surface as close to the tower as is practical.
6. Use rigid PVC for brominator inlet and outlet pipework.
7. THE BROMINATOR AND ASSOCIATED PIPEWORK MUST BE PROTECTED FROM FREEZING.
8. If the above installation methods cannot be employed, consult your supplier.

Brominators - Flow Control Options



----- Electrical Connections

Notes

Method 1

- ① is a normally closed Solenoid Valve linked electrically to the Cooling System Recirculation Pump.

Thus flow through the Dispenser only occurs when the Cooling Tower is in operation.

- ② is a Metering Valve and/or Flow Meter dependant on version specified.

Method 2

- ① is a normally closed Solenoid Valve operated by a timed output from a suitable Cooling Tower Control Module.

Actuation is timed to suit the relevant system being controlled.

In some cases it may be necessary to dose a secondary non-oxidising biocide in addition to Microtreat 3110.

- ② is a Metering Valve and/or Flow Meter dependant on version specified.

Method 3

- ① is a normally closed Solenoid Valve actuated by either;

- i) an integral timer
- ii) a halogen monitoring and control system

- ② is a Metering Valve and/or Flow Meter dependant on version specified.

All Versions

If inlet pressure exceeds the working pressure of the brominator, fit a Pressure Reducing Valve.

Dispenser outlets should always go to an open end.