AUTOMAG®
QUALITY CLIMATE CONTROL

INSTALLATION INFORMATION

WITH AZC CONTROL

1. Determine the proper Automag valve for the installation based on the pipe size, pump head rating and system flow (GPM).

VALVE#	PIPE SIZE	PUMP HEAD	MAX. FLOW (GPM)
AA1/2-14	1/2"	14'	4 1/2
AA1/2-25	1/2"	25'	6
AA3/4-14	3/4"	14'	4 1/2
AA3/4-25	3/4"	25'	6
AA1-16	1"	16'	8
AB3/4-8	3/4"	8'	4 1/2

2. The **AZC 40P/60P** control is designed for use with **2-wire** Thermostats. The AZC control works with all 2-wire thermostats. (Anticipator set to .18)

3. The AZC is designed with filtered, slow closing circuitry that eliminates any valve "hum" and water hammer from rapid closure.

4. The AZC 4060 P is available in both 4-zone and 6-zone control arrangements. They both are supplied with zone #1 as a switchable **priority** zone. With the priority switch in the "OFF" position, zone #1 controls as a normal heating zone. With the priority switch in the "ON" position, zone #1 controls the system Indirect Water Heater with priority over the rest of the system heating zones. Once the Indirect Water Heater aquastat is satisfied, the system returns to normal zone heating control.

5. The transformers on the AZC control have enough capacity to handle any combination of Automag Zone Valves.

6. Install Automag AA and AB series zone valves on the **RETURN** or the **SUPPLY** when used with the AZC control.

7. The Automag Zone Valves utilize approximately 24 volts **DC** to close, therefore are identified as a **normally-open** zone valve. The normally-open feature insures the home owner that hot water will circulate if there is a failure in the power to the zone valve.

8. Make sure that the direction of flow is correct as indicated by the directional arrow on the valve body.

9. Automag AA zone valves may be installed in any position. It is preferred, however, that AA zone valves be installed on a horizontal line with the coil on top. This is to facilitate gravity flow in case of circulator malfunction. For gravity systems and monoflow (one pipe) systems, install coil on top.

10. **Remove coil cover and coil** prior to soldering. **Do not disassemble** the valve base.

11. **DO NOT DEFORM, SQUEEZE, MUTILATE OR OTHERWISE DAMAGE VALVE STEM! DO NOT HOLD VALVE STEM WITH PLIERS!**

12. **Important!** Do not use excessive flux or solder or some may work its way into valve. The use of strainers reduces the possibility of solder pieces or other debris holding a valve open. These strainers are inserted in the supply side of the valve with the domed end out.

13. Some systems (e.g. systems that were converted from steam to hydronic) contain a considerable amount of loose rust which can clog a zone valve and/or strainer. For installations such as these, it is necessary to use an inline "Y" strainer in front of the zone valve with ball valves as required to isolate system.

14. **Do not exceed circulator head rating of valve!** Use the smallest circulator that will handle the job. Less powerful circulators are quieter and less expensive to buy, operate, maintain, and replace. The choice of slightly larger pipe size is preferable to a more powerful circulator.