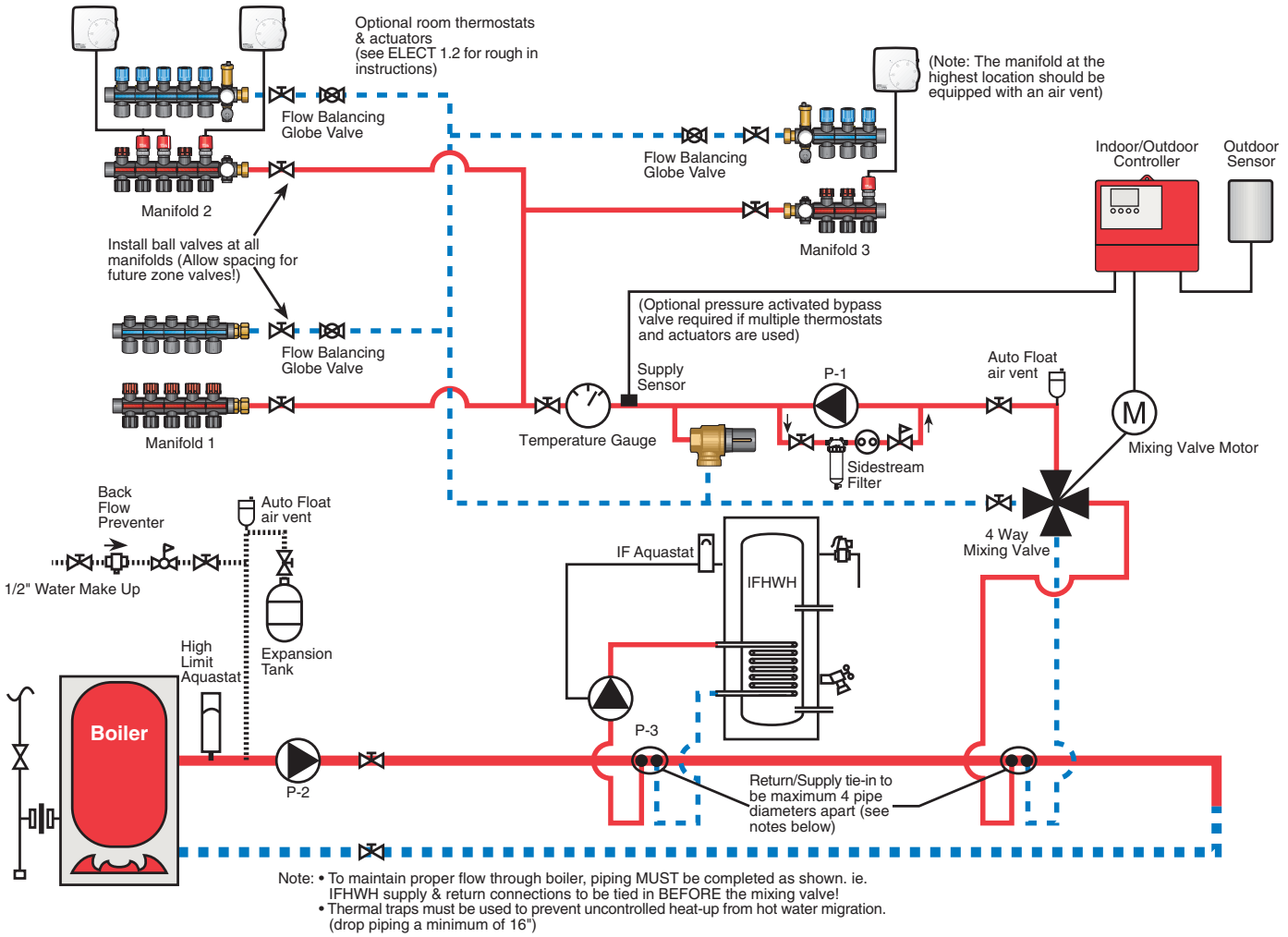
Application: **4-Way Mixing**

Cast iron high mass boiler c/w 2 circuits
(one low temp. circuit - fully automatic modulating water temp.)
(one high temp. circuit for domestic indirect fired hot water heater)



Note: • To maintain proper flow through boiler, piping MUST be completed as shown. ie. IFHWH supply & return connections to be tied in BEFORE the mixing valve!
• Thermal traps must be used to prevent uncontrolled heat-up from hot water migration. (drop piping a minimum of 16")

Note:

- Air vents, expansion tanks, pressure relief valves etc. For boiler as per local codes.
- Drawings are for HeatLink® suggested system layout only. User must determine if system layout will work for their particular application!
- Use isolation ball valves for all circuits and components.

Control Sequence:

- Indoor/outdoor control unit provides primary control for the HeatLink® radiant floor system. By correlating outside air temperature, supply water temp. & (optional) room temperature, the control unit then activates the 4-way mixing valve motor which in turn modulates the supply water temperature to the floor. Secondary control is provided by individual room thermostats operating actuators.
  (See ELECT 1.2) (For rough-in wiring instructions using StatLink® controls see ELECT 1.8)
- Boiler to fire either: 1) independently on its own operating controls or 2) by activation through a relay of the indoor/outdoor controls. Application to use option (____).
- Primary pump (P-2) to be wired in series with water heater aquastat (24v wiring) and zone valve (see ELECT 5.2 for schematic). Aquastat to be set at a maximum of 130°F to prevent scalding.
- Pumps (P-1, P-2) to be wired directly with their own disconnect switches. System pump P-1 to operate either: 1) continually or 2) by activation through a relay of the indoor/outdoor controller (see ELECT 5.2)
  For this particular application P-1 & P-2 to operate as per option (_____).