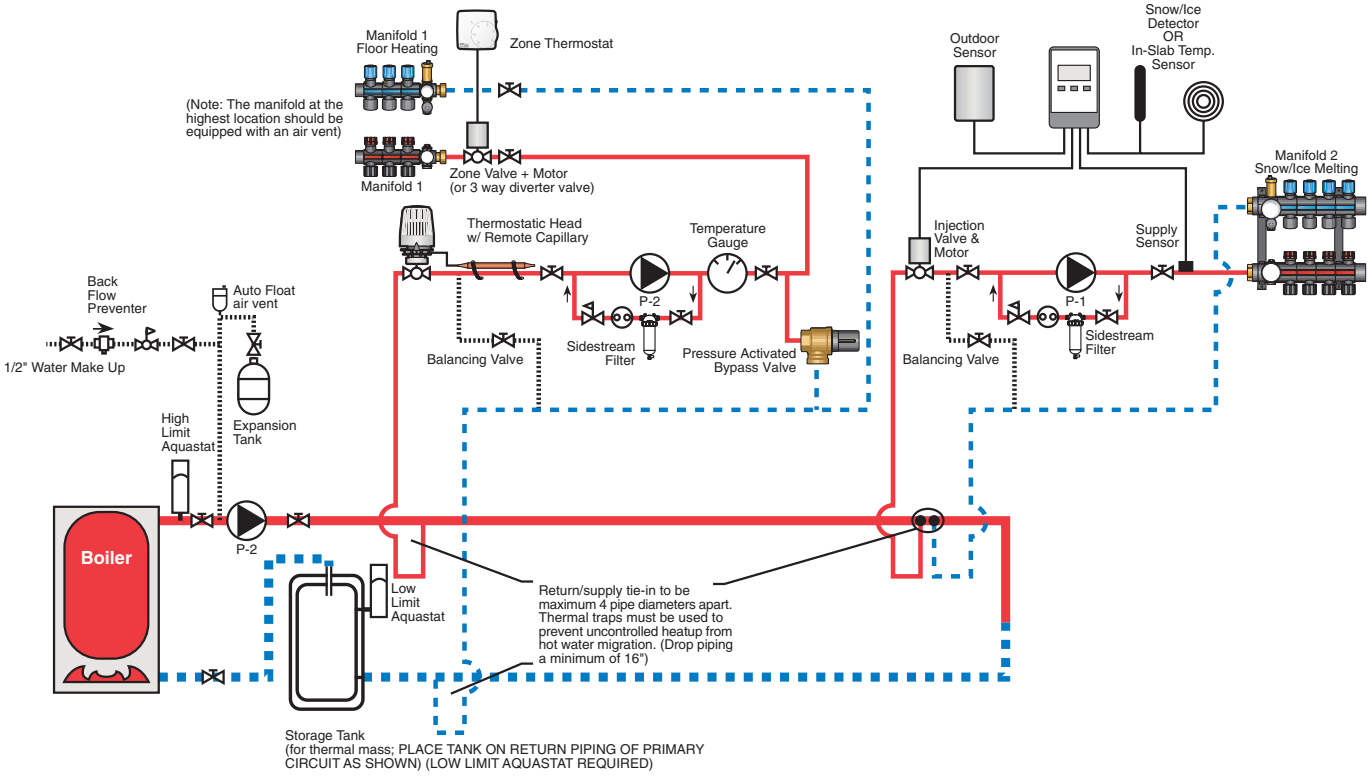
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2 Circuit (Semi-Automatic Snowmelting & Floor Heating)

April 20, 2006 - **SNOW 2.2**

Application: **Cast iron high mass boiler c/w 2 circuits (semi-automatic)**
(two low temp. circuit - semi-automatic manual adjusted water temp for snow melting and interior floorheating.)
(snow melting circuit utilizes a storage tank to increase thermal mass of system for boiler return water protection)



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.
- Expansion tank sizing to take into account the ratio of glycol freeze protection in the system.

Control sequence:

- Room thermostat for floor heating to be wired through a relay which in turn will activate system pump (P-1) upon call for heat. Owner to manually adjust the floorheating injection valve as per HeatLink® instructions. (see also HeatLink Product & Installation Guide pg. 16)
- Snow melt injection controller will receive temperature information from slab sensor. Upon temperature drop of the slab, the controller will activate system pump (P-2). When boiler return water temp. drops below low limit aquastat setting the aquastat interrupts power to the normally closed zone valves and motor. (See ELECT 1.12 & 1.13 plus ELECT 2.2)
- Boiler to be wired with its own disconnect switch. Operating aquastat to control boiler temperature. Wire gas valves in series with high limit aquastat.