

Radiant_BB_DHW_OPT

FCX Optimized System for 3 types of heat emitters

Three-way zone valve redirects return flow of baseboard to bottom of condenser when there is no flow in the radiant portion.

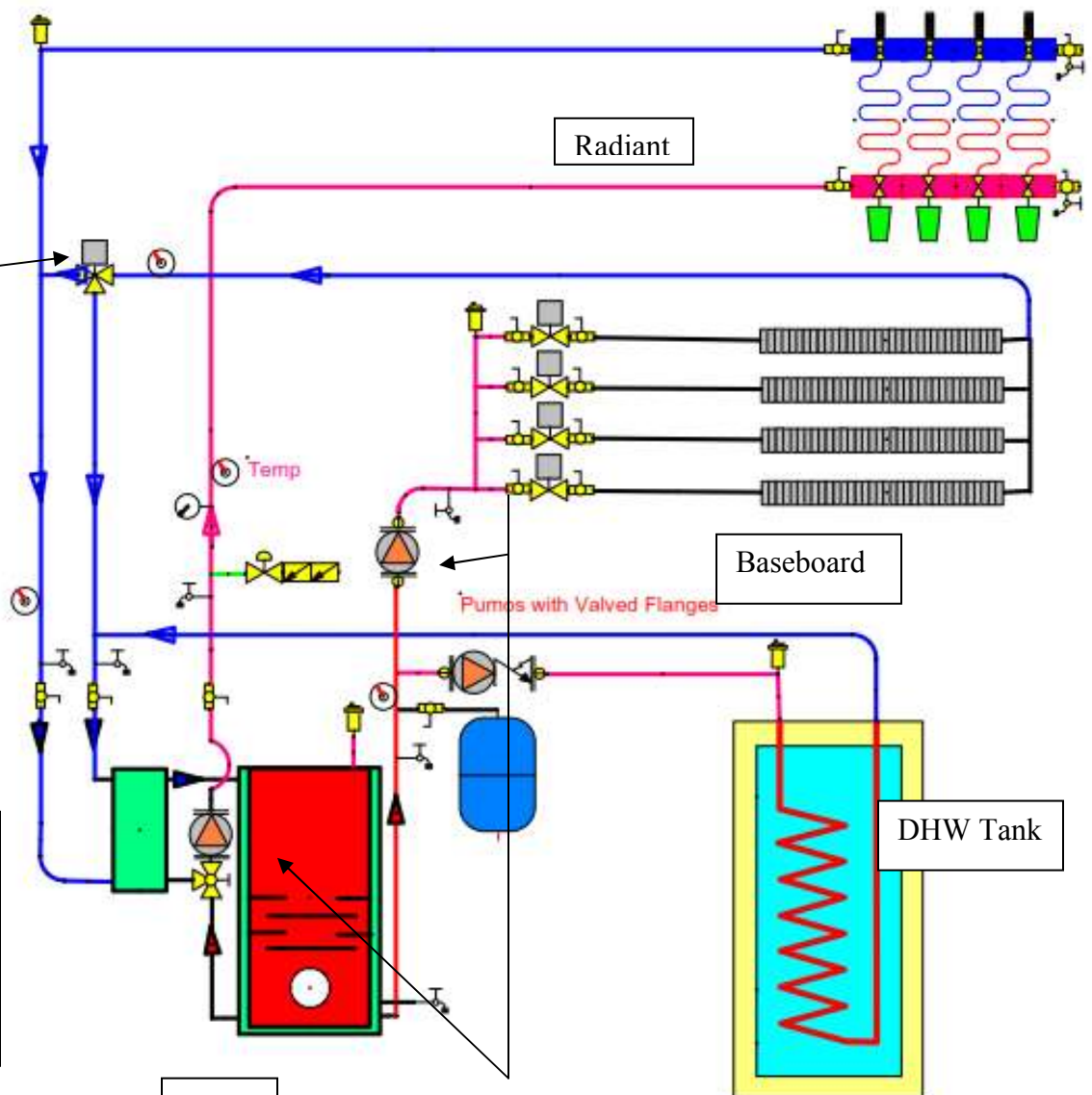
See Note below.

Temperature gages on all supply and returns allow for optimum tuning of the system for maximum ΔT .

Recommended control is the TACO SR503. See TACO switching relays on the Diagrams page of the website.

Zoned groups with single pumps per heating group

Taco Bumble Bee ΔT VFD pumps insure optimum flow in all circuits regardless of number zones open. This also reduces pumping costs. Rather than two pumps on the hot circuit, a zone valve could be used on the DHW side also.



General schematic for 3 heat emitter types (Radiant, Baseboard, & DHW) requiring both high and lower temperatures, and expected ΔT 's. The three-way zone valve on the return will promote some condensing on the Baseboard circuit when the radiant circuit is not active, but will not contaminate the cooler return of the Radiant when active. This enhancement is not necessary if the radiant is the primary heat emitter in the system, but would be desirable if the baseboard is on a significant portion of the time and the radiant is not. In any event it will not detract from the system.