

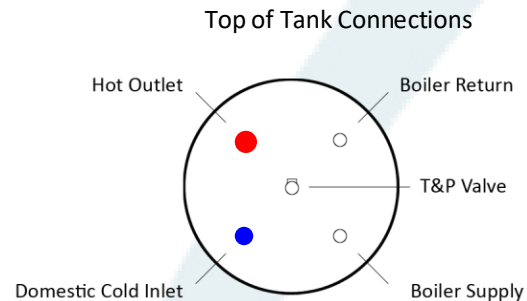
# Heat-Flo, LLC.

Two RECIRCULATION options on this sheet

Recirculation piping diagram

OPTION 1- Recirc. to drain outlet

Cold DHW IN



Recirculation Line

Hot DHW fixtures

Bronze or Stainless Steel  
Circulator

Install properly  
Sized potable  
expansion tank

Recirculation line:  
Remove tank drain  
Insert  $\frac{3}{4}$  x 3" BRASS  
nipple and  
 $\frac{3}{4}$  in. BRASS TEE  
Reinstall factory drain



## DISCLAIMER

This drawing shows system piping concept only. Installer is responsible for all equipment and detailing required by local codes.

Size header piping for maximum flow velocity of 2 feet/ second.

All other piping should be sized for a maximum flow velocity of 4 feet/ second.

Install a minimum of 12 diameters of straight pipe upstream of all circulators and check valves.

Install isolating flanges or isolating valves on all circulators.

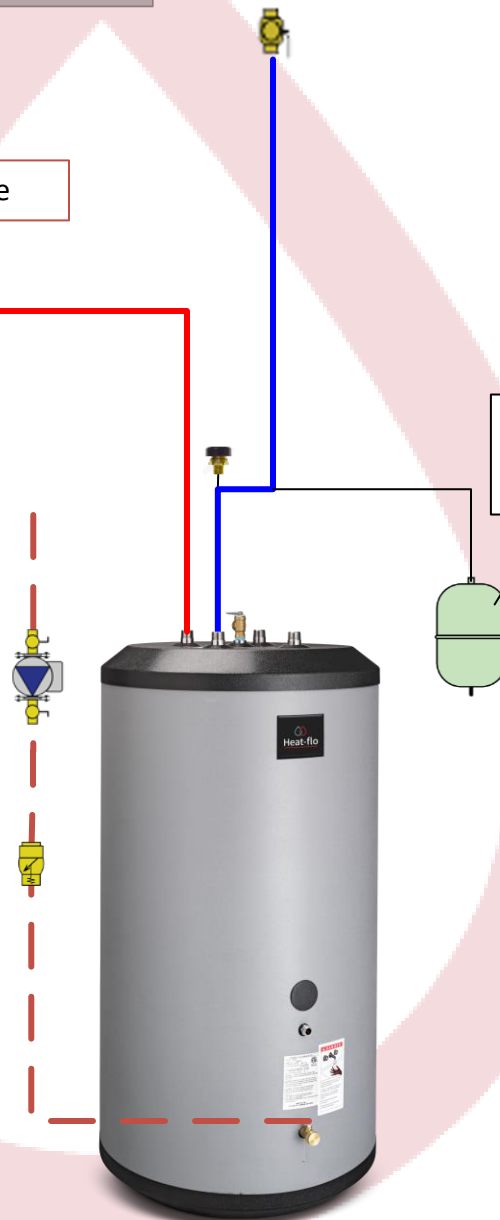
Install purging valve(s) on all circuits.

All closely spaced tees shall be within 4 pipe diameter center to center spacing.

Install minimum of 6 pipe diameters of straight pipe upstream and downstream of all closely spaced tees.

Differential pressure bypass valve prevents flow noise under partial load conditions (some zone valves closed).

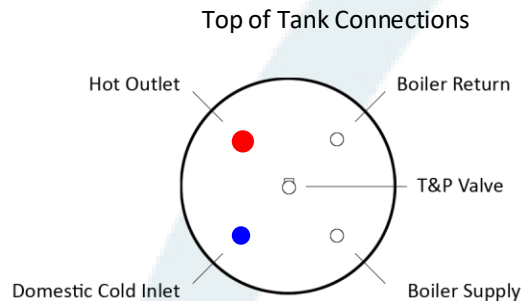
Set differential pressure bypass valve to delta P of distribution system with all zones open +1 psi.



# Heat-Flo, LLC.

Two RECIRCULATION options on this sheet

## Recirculation piping diagram OPTION 2- Recirc. Into domestic inlet



Recirculation Line

Hot DHW fixtures

Bronze or  
Stainless Steel  
Circulator

Cold DHW IN

Install properly  
Sized potable  
expansion tank

Recirculation line:  
Remove tank drain  
Insert  $\frac{3}{4}$  x 3" BRASS  
nipple and  
 $\frac{3}{4}$  in. BRASS TEE  
Reinstall factory drain

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Install purging valve(s) on all circuits.

All closely spaced tees shall be within 4 pipe diameter center to center spacing.

Install minimum of 6 pipe diameters of straight pipe upstream and downstream of all closely spaced tees.

Differential pressure bypass valve prevents flow noise under partial load conditions (some zone valves closed).

Set differential pressure bypass valve to delta P of distribution system with all zones open +1 psi.