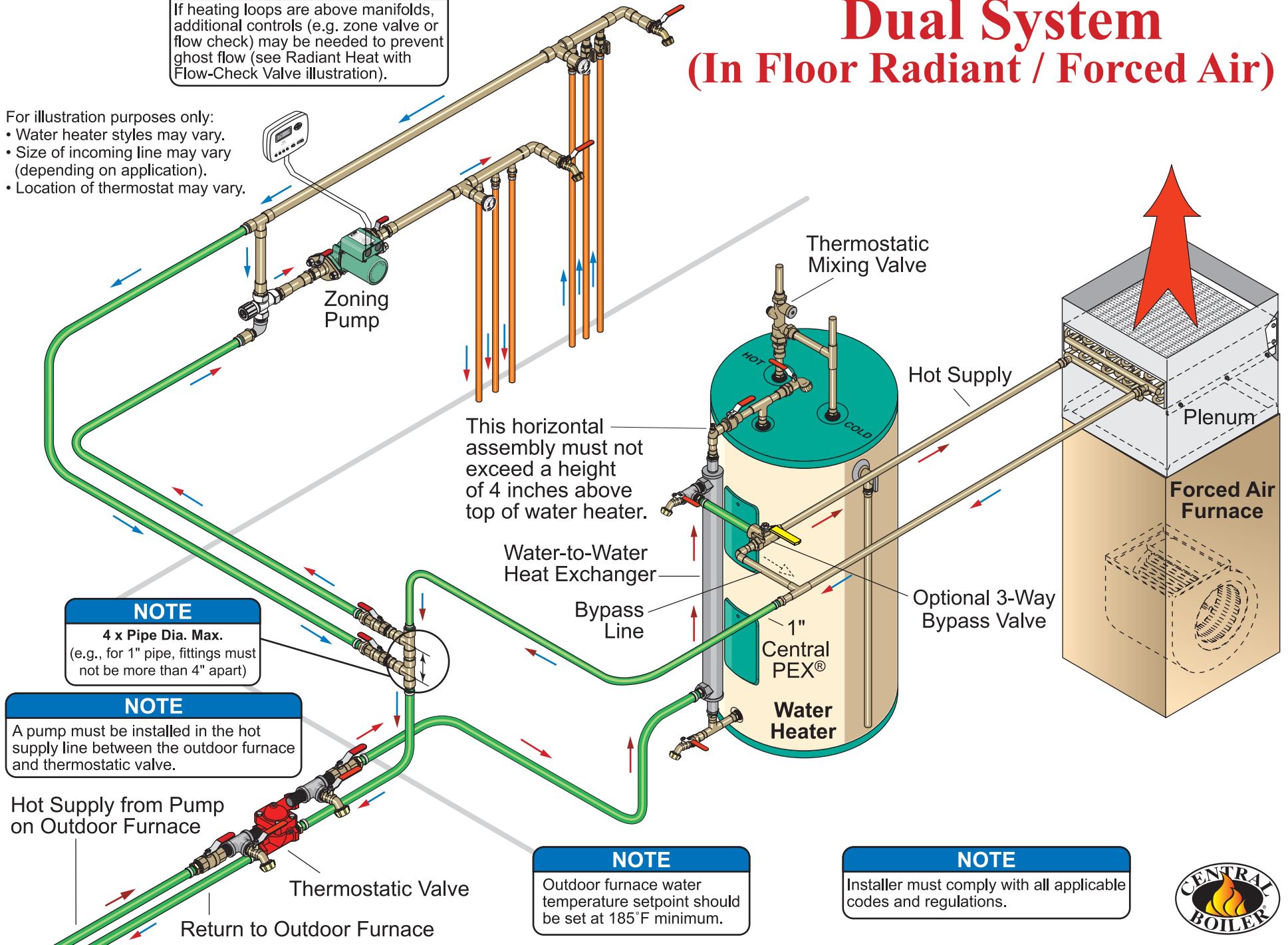


# Dual System (In Floor Radiant / Forced Air)

**NOTE**  
If heating loops are above manifolds, additional controls (e.g. zone valve or flow check) may be needed to prevent ghost flow (see Radiant Heat with Flow-Check Valve illustration).

For illustration purposes only:  
 • Water heater styles may vary.  
 • Size of incoming line may vary (depending on application).  
 • Location of thermostat may vary.



**NOTE**  
4 x Pipe Dia. Max.  
(e.g., for 1" pipe, fittings must not be more than 4" apart)

**NOTE**  
A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve.

Hot Supply from Pump on Outdoor Furnace

Thermostatic Valve

Return to Outdoor Furnace

This horizontal assembly must not exceed a height of 4 inches above top of water heater.

Water-to-Water Heat Exchanger

Bypass Line

1" Central PEX®  
Water Heater

Thermostatic Mixing Valve

Hot Supply

Optional 3-Way Bypass Valve

Plenum  
Forced Air Furnace

**NOTE**  
Outdoor furnace water temperature setpoint should be set at 185°F minimum.

**NOTE**  
Installer must comply with all applicable codes and regulations.

