

## Purge Technique for TMMX70-# and TMMX50-I

This bulletin covers air purging from the TMMX radiant heating panel as part of the installation or after significant service to the plumbing system. The method described here has been proven to be fast and effective.

**Warning: Do not plug in the heating panel until the entire system has been purged of air. Pump damage will result.**

Refer to the attached diagram.

Purge the air from the water heater side of the heat exchanger.

1. Connect a hose to drain valve 1 and run to a suitable drain.
2. Open drain valve 1 while ball valves 2 & 3 are open. Run until air appears to have been purged.
3. Close ball valve 2 only, keep ball valve 3 open and continue purging until no air is detected.
4. Close drain valve 1 and open ball valve 2.

Purge the air from the floor loops side of the heat exchanger.

Method A – suitable for all models

5. Using a F x F hose (such as a clothes washer hose), connect a hose to drain valve 4 (upper drain valve) in the heating panel. Connect the other end to a suitable water supply (or glycol pump/tank on systems with anti-freeze). Drain valve 1 can be used as a water supply.
6. Connect a hose to drain valve 6 (lower drain valve) and run the other end to a suitable drain.
7. Shut off ball valve 5. If a boiler feed/pressure reducing valve is connected to the ½ inch expansion tank line, shut it off at ball valve 7.
8. Open drain valves 4 and 6 and the water supply (which may be drain valve 1).
9. Close all but one loop valve 8 to all the floor loops. Once it is purged of air, close it and open the next loop valve. Repeat until all loops have been individually purged of air.
10. Open all loop valves 8. The system should be free of air.
11. Shut off drain valves 4 and 6. Open ball valves 5 and 7.
12. If a boiler feed/pressure reducing valve is present, it should automatically pressurize the system to 15 psi. Adjust if necessary. If not present, **partially** open drain valve 4 until pressure reaches 15 psi and close the valve.

### **Only now should the panel be plugged in**

Start the system using the thermostat. If gurgling occurs, air is still present. Repeat the purge method above. Once you are satisfied all air has been removed, remove the fill/purge hoses, set mix valve and individual loop flow rates as required.

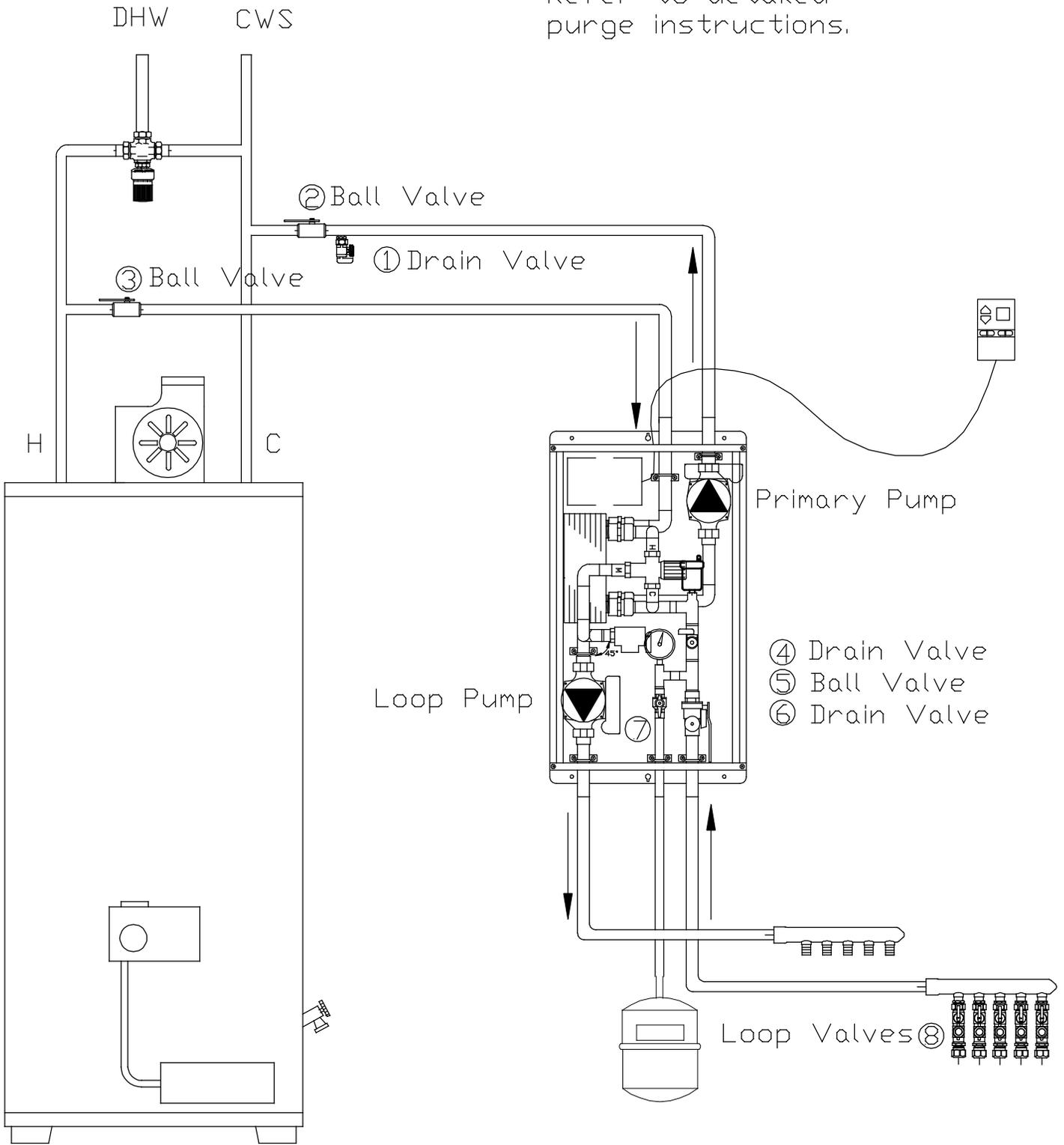
Method B – suitable for models with serial number P1808##### or higher AND a boiler feed/pressure reducing valve is connected to the ½ inch expansion tank line.

5. The boiler feed/pressure reducing valve will be used for purging.
6. Connect a hose to drain valve 6 (lower drain valve) and run the other end to a suitable drain.
7. Shut off ball valve 5. Make sure ball valve 7 is open.
8. Open drain valve 6.
9. Close all but one loop valve 8 to all the floor loops. Once it is purged of air, close it and open the next loop valve. Repeat until all loops have been individually purged of air.
10. Open all loop valves 8. The system should be free of air.
11. Shut off drain valve 6. Open ball valve 5.
12. The boiler feed/pressure reducing valve should automatically pressurize the system to 15 psi. Adjust if necessary.

**Only now should the panel be plugged in**

Start the system using the thermostat. If gurgling occurs, air is still present. Repeat the purge method above. Once you are satisfied all air has been removed, remove the fill/purge hoses, set mix valve and individual loop flow rates as required.

Refer to detailed  
purge instructions.



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DRAWING TITLE  
TMMX70-1  
Radiant Panel  
w Heat Exchanger  
Purge Method

⑦ 1/2" Ball Valve for  
expansion tank  
⑤⑥ May be a combined  
Webstone Valve

DRAWING NUMBER  
REVISION  
20181019