

Quick Reference Guide

WARNING: Always refer to installation guide that is included with the ThermoDrain before performing an installation.

Best Practices **Connecting to a plumbing device**

The preheated outlet of the ThermoDrain® should not supply a branch of the plumbing system located before a water softener or filtration equipment nor to the cold inlet of a central thermostatic mixing valve if one is present (usually located near the water heater). If a local thermostatic mixing valve is used to limit the shower or bath temperature only, adjust after installation is completed.

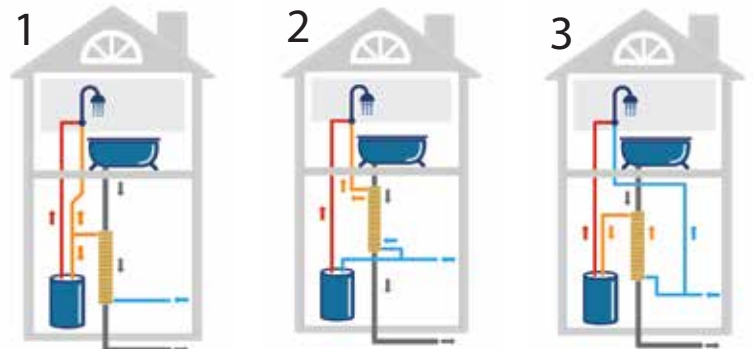
Though it may be practical to connect the ThermoDrain® preheated water outlet to the entire home cold water supply, be aware that this will have the effect of providing lukewarm water at the cold fixtures throughout the entire home during shower operation.

Best Practices **Installing with one shower**

Configuration #1. PREHEAT TO THE WATER HEATER AND SHOWER (equal flow). The preheated water from the unit is fed to both the hot water tank cold inlet and to the cold shower supply. This is the most efficient installation.

Configuration #2. PREHEAT TO THE SHOWER COLD WATER SUPPLY. The preheated water from the unit is fed to the cold shower side ONLY.

Configuration #3. PREHEAT TO THE WATER HEATER SUPPLY. The preheated water from the unit is fed to the hot water tank cold inlet ONLY. This configuration is useful when access to plumbing is restricted or based on the plumbing system layout.



Best Practices **Installing with two showers**

If two showers use a common drain stack apply any of the listed configurations for one shower. (Configuration #1, #2 or #3)

Configuration #4. PREHEAT TO THE WATER HEATER SUPPLY.

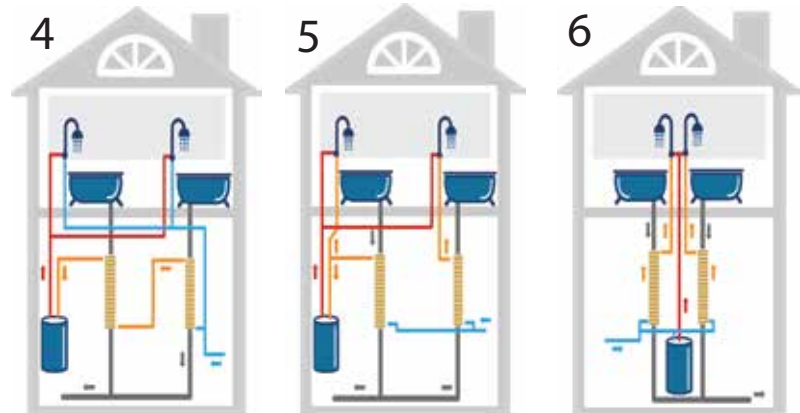
If two showers on the same or different levels use separate drain stacks the preheated water from the units is fed to the hot water tank cold inlet ONLY.

NOTE: Configuration #5 and #6 are useful when access to plumbing is restricted or based on the plumbing system layout.

Configuration #5. PREHEAT TO THE WATER HEATER SUPPLY.

If two showers on the same or different levels use separate drain stacks the preheated water from the units is fed to the hot water tank cold inlet and cold water supply.

Configuration #6. PREHEAT TO THE SHOWER COLD WATER SUPPLY. If two showers on the same or different levels use separate drain stacks the preheated water from the units are fed to each cold water side ONLY.



Best Practices **Potable Water Connection**

Units come ready for sweat fitting installation. A maximum temperature of 275°C is allowed during the installation of the fittings. Do not use quick connect or push-in type or compression type or press type fittings.

Best Practices **Drain Connection**

Refer to National and Local Code requirements prior to installation. The ThermoDrain® must be installed in a vertical position ONLY. Any other position will render this device ineffective. A maximum deviation of 1/8" (3mm) per linear foot (305mm) from vertical is acceptable. Provide suitable support for the ThermoDrain such that the weight of the unit either rests on rigid and supported pipe work or is attached to the wall or ceiling by hangers. The unit may NOT hang from the upper mechanical coupling. If a wall or ceiling support is required, clamps or hangers in direct contact with the unit shall be copper or with non metallic coating to prevent galvanic corrosion. Properly support the upper and lower part of the drain pipes BEFORE cutting into the drain stack. If an expansion joint is installed on the drain stack it should be placed above the ThermoDrain unit to minimize support requirements where allowed. Do NOT install unit in a location where freezing may occur. Pressure test the plumbing system upon final assembly.

ThermoDrain package includes the following



2 x copper to plastic or cast iron couplings, 1 installation instruction guide and 1x ThermoDrain with 3/4" copper coil

STEP 1 Cut Marks



From the bottom vertical section of the drain pipe, measure up 3 inches and make the bottom cut mark. Continue measuring up the drain pipe and add 1/2" and make the top cut mark on drain pipe.

(It is strongly recommended to leave as much vertical drain pipe above the unit to allow film formation).



Cut at both cut marks. De-burr upper and lower cuts.

STEP 2 Installing ThermoDrain onto Drain Pipe



Place rigid coupling onto bottom cut of pipe. Push down firmly so that it is all the way down onto the drain pipe, place bottom of ThermoDrain into coupling. Do not tighten.



Remove metal band and clamps from top rigid coupling, place coupling onto ThermoDrain. Roll the coupling back over itself and place into position in line with the drain pipe top cut. Roll coupling back over drain pipe, replace metal components and secure. Secure bottom coupling as well.



Verify vertical deviation and adjust as required to ensure maximum efficiency of ThermoDrain operation.

STEP 3 Potable Water Connection



Connect top of ThermoDrain to the inlet of the hot water tank or the ofhe cold water line that supplies the shower or both.



Connect a 3/4" cold water line to the bottom of the ThermoDrain.

STEP 4 Final Inspection of ThermoDrain



1. Is bottom potable water connection of unit is connected to cold water?
2. Are both top and bottom couplings secure?
3. Have you performed a leak check on the drain system and pressure check the cold water system?
4. Is the drain system properly supported for weight and structure changes?
5. Does the installation conform to code?