



Save up to 40% on water heating costs
 Triple the hot water tank capacity
 Increase the life expectancy of your water heater
 Over 50 year life expectancy and is maintenance free
 10 Year Warranty
 Highest effectiveness in its class according to Natural Resources Canada Tests
 50.9% Efficient, outperforming all DWHR units on a per foot basis.



A
 Simple
 Easy
 Affordable
 Durable
 Energy
 Efficient
 Solution

Save up to 40% on water heating costs



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EcoInnovation is a corporate member of
 the Green Building
 Council of Canada

ThermoDrain™

Drain water heat recovery

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Drain water heat recovery

Save up to 40% on water heating costs, fast payback

Conventionally, most of the heat from domestic hot water is wasted down the drain. Drain Water Heat Recovery technology will capture large amounts of wasted heat energy by using it to preheat the incoming cold water thereby substantially lowering water heating costs by up to 40%. Given a typical residential application, the return on investment can be as little as 3 years.

How does it work?

The ThermoDrain™ consists of a copper potable water tube wound and molded around a central copper drain tube. Heat is transferred from the wastewater flowing down this drain tube to the cold water simultaneously moving upward through the wound coil. The cold water is increased by 15°C (27°F) by the ThermoDrain™ before it enters the water heater. For example, cold water entering your home at 10°C (50°F) will be preheated to 25°C (77°F) at no cost.

Why does it work?

The phenomenon behind the Gravity Film Heat Exchanger is the naturally occurring surface tension in liquids. As a liquid drains by gravity down the vertical tube, a uniform film is created along the inner surface of this tube. The slow falling film is what allows effective heat transfer to the copper tube then towards the cold water flowing in the outside coil. The copper tubes used, are essential to the efficient heat transfer.

3x more hot water

The ThermoDrain™ will triple the capacity of your hot water tank. A 40 gallon tank combined with a ThermoDrain™ will give you 90 minutes of shower time versus 30 minutes without a ThermoDrain™.

L.E.E.D. and ENERGY STAR™ certification for homes

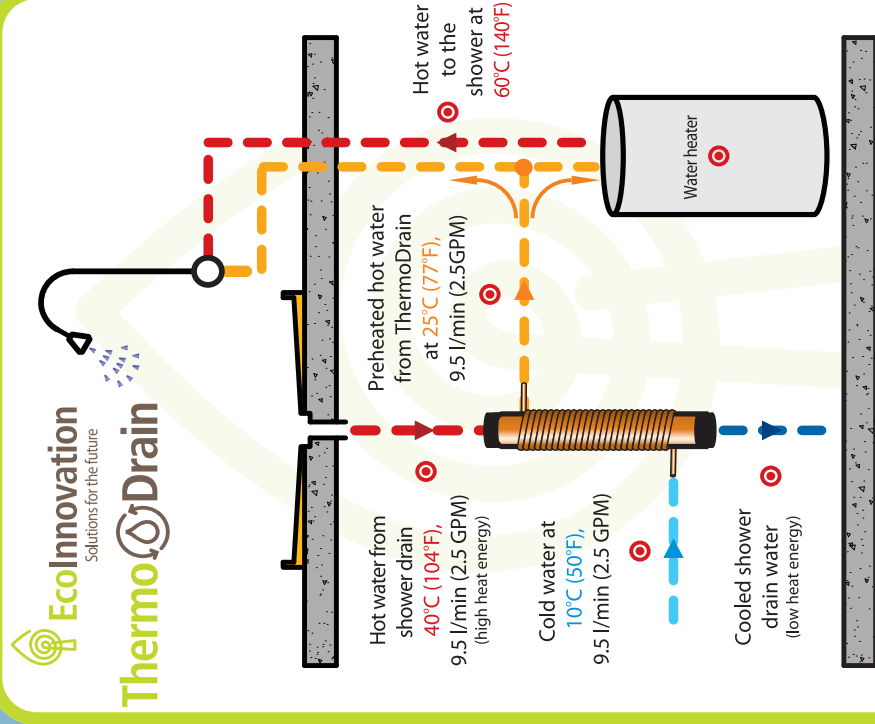
The ThermoDrain qualifies for LEED credits for LEED certified homes. The ThermoDrain™ helps builders and home owners qualify homes for ENERGY STAR™ certification.

Designed with a double wall construction and to plumbing code requirements, the ThermoDrain™ ensures peace of mind operation. Efficiency and performance verified by:

ThermoDrain™ (superior technology = superior performance):

40" long, 3" drain diameter, 1/2" cold water type I ASTM B88 copper, an upgrade from the square and flattened 3/8" found on other brand heat exchangers and that could risk blockage. 32 lbs of precertified plumbing copper, 30% more copper than our competitors 48" units, 50.9% efficient, conforms to plumbing codes, maintenance free, installs vertically, adds value to any home and saves you up to 40% on hot water heating costs, highly durable, lasts over 50 years and is 100% recyclable. It has the highest effectiveness in its class as noted by Natural Resources Canada's Center for Housing Technology 2007 Drain Water Heat Recovery Performance Testing.

Thermodrain can be combined with instant hot water heaters, geothermal and solar hot water heating systems. It will decrease system size requirements, installation costs as well as operational costs. Don't forget to ask about our Eco-GFX commercial units.



Cold and hot water preheating
(Equal flow configuration)





Data sheet model TD340

ThermoDrain

Characteristics* :

Standardized efficiency : 50.9%
Pressure drop : 6.5 psi (44.8 kPa)
Power capacity: 10.0 kW
Length : 40" (1016mm)
Nominal drain diameter: 3" (75mm)
Potable connection: 1/2" (12mm)
Nb of coils : 1
Max. pressure : 150 psi (1034 kPa)

Applications :

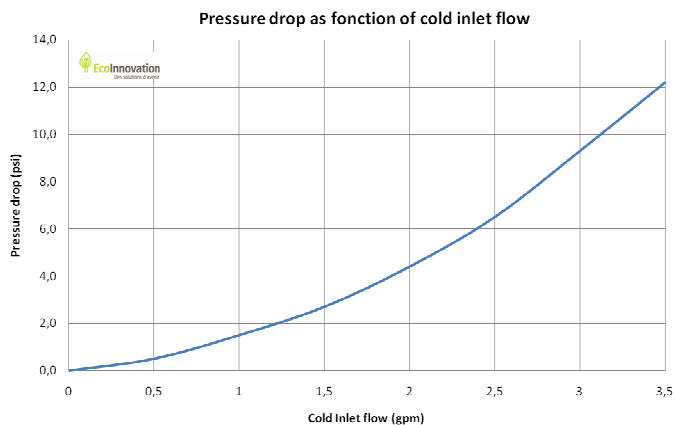
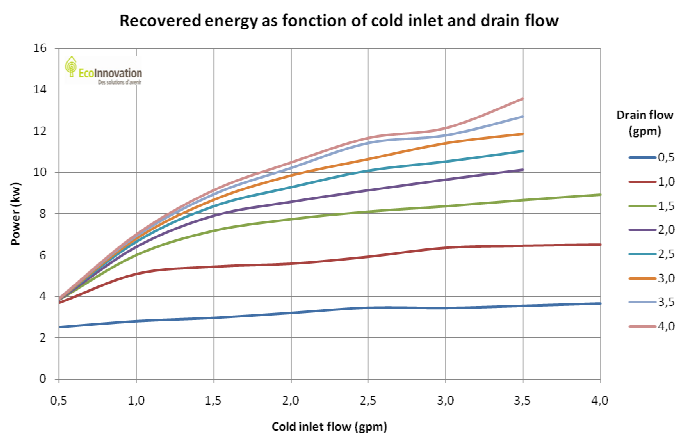
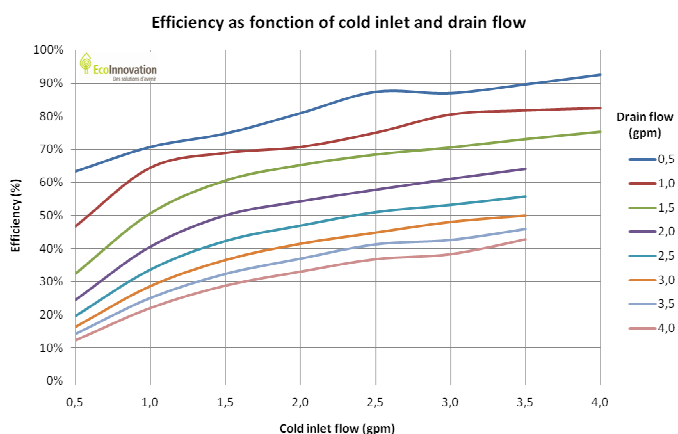
Residential single housing
One shower installation
Single installation
Home builder

Materials :

Central drain tube : ASTM 306
1/2" Type L outer coil: ASTM B-88

Features :

Best efficiency in its class**
Compact unit, ease of installation
Excellent value



* Equal flow, 2.5 gpm (9.5 lpm), 30°C dT, ** SRC 2007 test report