

ThermoDrain

DRAIN WATER HEAT RECOVERY

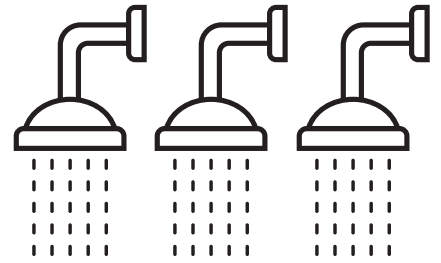
COMFORTABLE IS EASY



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Add a **ThermoDrain** to your home

Enjoy more hot water for showering and save up to **40%** on your hot water cost while helping the environment. Get up to **3x** more shower time with tank systems and higher flow rates with instantaneous hot water heaters.



HOT WASTE WATER
100°F (38°C)



PREHEATED POTABLE WATER
71.4°F (22°C)

42.8%
efficient unit

COLD POTABLE WATER
50°F (10°C)



COOLED WASTE WATER



How does the ThermoDrain make your home more comfortable?

The comfort of almost endless hot water is here! Heat energy recovered by the **ThermoDrain** will nearly triple the capacity of a water tank and increase the water flow of a tankless hot water heater. Increased energy costs requires that we stop wasting precious heat down the drain. The **ThermoDrain** will save between 20% and 45% on your hot water heating year after year.



What is Drain Water Heat Recovery (DWHR)?

ThermoDrain is a Drain Water Heat Recovery System that recovers heat from water that would otherwise be lost down the drain. It works best with simultaneous flows like showers, where there is a demand for hot water at the same time as hot water is going down the drain. The recovered heat can be used to preheat cold water going to the hot water heater, to the cold outlet of the shower or both.



How does the ThermoDrain work?

The **ThermoDrain** consists of a copper pipe tightly wound around a vertical section of copper drainpipe. As water flows down the drainpipe, it clings to the inside surface of the drainpipe. The heat from the drain water is transferred through the copper drainpipe to fresh cold water flowing in the outer copper coil. The preheated water never comes in contact with the waste water. Only heat is transferred.



EcoInnovation

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INTERESTING FACTS

What do home buyers really want? First and foremost, **energy efficiency**. Some of the most wanted features involve saving energy.

9/10 BUYERS would rather buy a home with energy-efficient features and permanently lower utility bills than one without those features that costs 2% to 3% less.*

*NAHB 2012, Best in American Living 2012

73% OF NEW HOME BUYERS are influenced by projected utility costs. They would be willing to pay an additional \$7000 in the up front price of a home to save \$1000/year in utility costs. A 14% rate of return.

ROUGHLY 90% OF THE HEAT ENERGY from your shower goes down the drain, and **ThermoDrain** can recover a significant portion of this energy.

ELECTRIC WATER HEATER @ \$0.15/kWh

**[3.1 YEARS PAYBACK
34.1% RATE OF RETURN]**

after 20 years
3 showers @ 7.5 minutes/day 2.5 GPM
using model TD342B-DR

BY USING **ThermoDrain**



Up to **67%** of the heat from showers is recovered

Increase total shower time from **28** to **90** minutes when you add a **ThermoDrain** to a 40 gallon hot water tank

Up to **40%** reduction on your hot water bill

Average **2 RESNET HERS points** for a **ThermoDrain** installation

30+ years life expectancy

3 easy ways to hook up ThermoDrain
1 - Preheat water to the shower
2 - Preheat water to the inlet of the hot water heater
3 - Both (1) and (2)

COMMERCIAL + THERMODRAIN

Hotels, gyms, spas, public swimming pools, hair salons and more.

INDUSTRIAL + THERMODRAIN

Parts washing, food processing, beer production, laundry, vehicle washing and more.

INSTITUTIONAL + THERMODRAIN

Hospitals, military barracks, fire stations, college campuses, prisons and more.

RESIDENTIAL + THERMODRAIN

Single family homes, condos, apartments and more.

DWHR is mandatory

- ▶ ONTARIO BUILDING CODE
- ▶ MANITOBA BUILDING CODE

DWHR is optional

- ▶ IECC®, International Energy Conservation Code®
- ▶ RESNET® & CRESNET®
- ▶ ENERGYSTAR® FOR NEW HOMES
- ▶ EnerGuide New Home® NOVOCLIMAT®
- ▶ NETZERO® NEAR NETZERO® R2000®
- ▶ PASSIVEHOUSE®/ PASSIVHAUS®
- ▶ U.S. DOE ZERO ENERGY READY HOME
- ▶ NGBS® NATIONAL GREEN BUILDING STANDARD®
- ▶ LEED®
- ▶ BUILTGREEN® GreenHouse®

model TD342B-DR-QUICK

