The ThermoDrain™ is the latest technology in Drain Water Heat Recovery. Its unique design provides outstanding savings that can be attributed to its superior performance and durability. With its exclusive features, the ThermoDrain™ is simply the best technology available today!

**TECHNICAL CHARACTERISTICS**
- Industry leading ¾” coil design
- Extra low pressure drop
- Eliminate risk for coil blockage
- Single coil design
- No welded joints
- No possibility of leakage
- Compact design
- Easy to install and transport
- Requires minimal installation space
- Outstanding durability
- Thickest copper walls on the market
- 5 year warranty
- Mechanical drain couplings included
- CSA B55.1 verified and B55.2 certified

**DRAIN CENTER TUBE**
- Made from DWV copper, conforms to ASTM 306:
- The nominal diameter is the same as the drainage pipe on which the device is installed. [Standard diameters: 3” and 4”]

**CERTIFICATIONS**
- The length of the heat exchanger is accordance with engineering drawings. [Standard length: 12” to 100”]
- The thermal effectiveness of the heat exchanger must be verified to CSA B55.1-15. [All models]
- The construction of the heat exchanger must be certified to CSA B55.2-15. [All models]
- Three potable water connection options are available:
  - factory installed crimp PEX fittings, certified to CSA B137.5 and ASTM F1807
  - factory installed cold expansion PEX fittings, certified to ASTM F1960
  - 3/4” male copper tubing

**INSTALLATION**
The drain water heat exchanger will be integrated into the plumbing system using mechanical joints. The heat recovery unit will be installed vertically, as recommended by the manufacturer.

**ACCEPTED PRODUCT**
ThermoDrain models TDXXXB from EcoInnovation Technologies inc. [See technical drawing sheet].
<table>
<thead>
<tr>
<th>Model Number</th>
<th>Diameter (in)</th>
<th>Diameter (mm)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Calculated Efficiency (%) @ 9.5 L/min</th>
<th>Calculated Pressure Loss (psi) @ 9.5 L/min</th>
<th>Heat Recover (kW)</th>
<th>Pressure Loss (kPa)</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD442B</td>
<td>4</td>
<td>101.6</td>
<td>42</td>
<td>1066.8</td>
<td>46.0%</td>
<td>1.4</td>
<td>8.3</td>
<td>9.6</td>
<td>16.8</td>
</tr>
<tr>
<td>TD460B</td>
<td>4</td>
<td>101.6</td>
<td>60</td>
<td>1524</td>
<td>57.3%</td>
<td>2.2</td>
<td>10.3</td>
<td>15.4</td>
<td>24.8</td>
</tr>
<tr>
<td>TD472B</td>
<td>4</td>
<td>101.6</td>
<td>72</td>
<td>1828.8</td>
<td>58.4%</td>
<td>2.7</td>
<td>10.5</td>
<td>18.5</td>
<td>29.9</td>
</tr>
</tbody>
</table>

**Intertek Test Data Sheets**

**Original Test Data**

Client: ECO Innovations Technology Inc.  
Job No.: G101070334  
Product: Drain Water Heat Recovery Pipe  
Model No.: TD442B, TD460B, TD472B  
Sample Control Number(s): 134000121, 134000122, 134000123  
Engineer: Blaine Serio  
Tested By: Pocholo Laforetza  
Reviewed By: Rick Curkeet  
Date: 29-April-2013  
Date: June 17th, 2013  

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**EcoInnovation Technologies Inc.**

231 Rue Ste Marie  
St-Louis de Gonzague (Qc) JOS IT0  
1.888.881.7693  
1.888.899.1135  
info@ecoinnovation.ca  
www.ecoinnovation.ca
4” diameter specification sheet

Efficiency vs water flow rate

Efficiency (%) vs Flow Rate (L/min)

- TD442B
- TD460B
- TD472B
4" diameter specification sheet

Recovered energy vs water flow rate

Energy (kW) vs Flow Rate (L/min)

- TD442B
- TD460B
- TD472B

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4” diameter specification sheet

Pressure drop vs water flow rate

- TD442B
- TD460B
- TD472B
4" diameter specification sheet

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EcoInnovation Technologies Inc.

Thermo Drain

DRAIN WATER HEAT RECOVERY

NOTES:
1- THE DRAIN SECTION IS MADE FROM “COPPER DRAINAGE TUBE DWV” ASTM 306
2- THE POTABLE WATER COIL IS MADE FROM TYPE “L” “SEAMLESS COPPER WATER TUBE” ASTM B-88
3- PEX FITTING IS CSA B177.8 AND ASTM F1427
4- UNIT MUST BE INSTALLED VERTICALLY, MAX ALLOWABLE IS 1/8” PER LINEAR FT.
5- INSTALLATION MUST BE MADE IN A WAY TO PREVENT THE DRAIN FROM BEING BLOCKED
6- GENERAL TOLERANCES ±1/8”

MODEL/MODELE : TDH

<table>
<thead>
<tr>
<th>DRAIN DIA.</th>
<th>LENGTH/LONG. &quot;L&quot;</th>
<th>TUBE DIA.</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>32.0” – 62.0”</td>
<td>B = 3/4” CU</td>
<td>- DEFAULT MALE CU</td>
</tr>
</tbody>
</table>

SEE/VOIR Note A

DIR=WF/DRAIN COUPLING

PEX=3/4” F1807 PEX

EXP=3/4” F1860 PEX

POS. | DESCRIPTION
--- | ---------------
1 | DRAIN INLET / ENTREE DU DRAIN
2 | DRAIN OUTLET / Sortie du DRAIN
3 | FRESH WATER INLET / ENTREE EAU POTABLE
4 | FRESH WATER OUTLET / Sortie eau potable

PROJECT / PROJET:

APP: 

DATE: 

REVISION: THROMODRAIN TDH SERIES

SHOP DRAWING 
DESSIN D’ATELIER

SIGNATURES:

REV: SCA

DATE: 21/02/20

1/1