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
- Potable water tube: Made from Type “L” copper, certified to ASTM B88;
- Minimal copper coil diameter is ¾”, profiled in a “D” shape to maximize heat transfer and minimize pressure drop;
- Approved maximum pressure rating of 150psi (1035 kPa);
- Potable water connections are the required diameter to connect to the water feed for the application. [Standard diameters: ¼”, ⅜”, ⅜”, ¾”.]

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 EcolInnovation Technologies inc. [See technical drawing sheet].
## Intertek Test Data Sheets

### Original Test Data

**Client:** ECO Innovations Technology Inc.  
**Engineer:** Blaine Serio  
**Job No.:** G101070334  
**Tested By:** Pocholo Laforteza  
**Date:** 24-April-2013  
**Product:** Drain Water Heat Recovery Pipe  
**Reviewed By:** Rick Curkett  
**Date:** June 17th, 2013  
**Model No.:** TD336B, TD342B, TD348B, TD360B, TD372B  
**Standard(s):** CSA 855.1 Issued: 2012/07/01 Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units  
**Sample Control Number(s):** 134000131, 134000129, 134000126, 134000119, 134000120

### Table

<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>TD336B</td>
<td>3</td>
<td>76.2</td>
<td>36</td>
<td>914.4</td>
<td>39.2%</td>
<td>1.3</td>
<td>7.0</td>
<td>9.1</td>
<td>10.0</td>
</tr>
<tr>
<td>TD338B</td>
<td>3</td>
<td>76.2</td>
<td>38</td>
<td>965.2</td>
<td>40.4%</td>
<td>1.4</td>
<td>7.2</td>
<td>9.7</td>
<td>10.4</td>
</tr>
<tr>
<td>TD340B</td>
<td>3</td>
<td>76.2</td>
<td>40</td>
<td>1016</td>
<td>41.6%</td>
<td>1.5</td>
<td>7.5</td>
<td>10.3</td>
<td>10.9</td>
</tr>
<tr>
<td>TD342B</td>
<td>3</td>
<td>76.2</td>
<td>42</td>
<td>1066.8</td>
<td>42.8%</td>
<td>1.6</td>
<td>7.7</td>
<td>10.9</td>
<td>11.2</td>
</tr>
<tr>
<td>TD344B</td>
<td>3</td>
<td>76.2</td>
<td>44</td>
<td>1117.6</td>
<td>43.9%</td>
<td>1.7</td>
<td>7.9</td>
<td>11.5</td>
<td>11.9</td>
</tr>
<tr>
<td>TD346B</td>
<td>3</td>
<td>76.2</td>
<td>46</td>
<td>1168.4</td>
<td>45.0%</td>
<td>1.8</td>
<td>8.1</td>
<td>12.1</td>
<td>12.4</td>
</tr>
<tr>
<td>TD348B</td>
<td>3</td>
<td>76.2</td>
<td>48</td>
<td>1219.2</td>
<td>46.0%</td>
<td>1.8</td>
<td>8.2</td>
<td>12.7</td>
<td>13.0</td>
</tr>
<tr>
<td>TD350B</td>
<td>3</td>
<td>76.2</td>
<td>50</td>
<td>1270</td>
<td>47.0%</td>
<td>1.9</td>
<td>8.4</td>
<td>13.3</td>
<td>13.4</td>
</tr>
<tr>
<td>TD352B</td>
<td>3</td>
<td>76.2</td>
<td>52</td>
<td>1320.8</td>
<td>48.0%</td>
<td>2.0</td>
<td>8.6</td>
<td>13.9</td>
<td>14.0</td>
</tr>
<tr>
<td>TD354B</td>
<td>3</td>
<td>76.2</td>
<td>54</td>
<td>1371.6</td>
<td>48.9%</td>
<td>2.1</td>
<td>8.8</td>
<td>14.5</td>
<td>14.6</td>
</tr>
<tr>
<td>TD356B</td>
<td>3</td>
<td>76.2</td>
<td>56</td>
<td>1422.4</td>
<td>49.8%</td>
<td>2.2</td>
<td>8.9</td>
<td>15.0</td>
<td>15.2</td>
</tr>
<tr>
<td>TD358B</td>
<td>3</td>
<td>76.2</td>
<td>58</td>
<td>1473.2</td>
<td>50.7%</td>
<td>2.3</td>
<td>9.1</td>
<td>15.6</td>
<td>15.8</td>
</tr>
<tr>
<td>TD360B</td>
<td>3</td>
<td>76.2</td>
<td>60</td>
<td>1524</td>
<td>51.5%</td>
<td>2.3</td>
<td>9.2</td>
<td>16.2</td>
<td>16.5</td>
</tr>
<tr>
<td>TD362B</td>
<td>3</td>
<td>76.2</td>
<td>62</td>
<td>1574.8</td>
<td>52.3%</td>
<td>2.4</td>
<td>9.4</td>
<td>16.7</td>
<td>17.0</td>
</tr>
<tr>
<td>TD364B</td>
<td>3</td>
<td>76.2</td>
<td>64</td>
<td>1625.6</td>
<td>53.0%</td>
<td>2.5</td>
<td>9.5</td>
<td>17.3</td>
<td>17.7</td>
</tr>
<tr>
<td>TD366B</td>
<td>3</td>
<td>76.2</td>
<td>66</td>
<td>1676.4</td>
<td>53.7%</td>
<td>2.6</td>
<td>9.6</td>
<td>17.8</td>
<td>18.3</td>
</tr>
<tr>
<td>TD368B</td>
<td>3</td>
<td>76.2</td>
<td>68</td>
<td>1727.2</td>
<td>54.4%</td>
<td>2.7</td>
<td>9.7</td>
<td>18.4</td>
<td>18.9</td>
</tr>
<tr>
<td>TD370B</td>
<td>3</td>
<td>76.2</td>
<td>70</td>
<td>1778</td>
<td>55.0%</td>
<td>2.7</td>
<td>9.9</td>
<td>18.9</td>
<td>19.6</td>
</tr>
<tr>
<td>TD372B</td>
<td>3</td>
<td>76.2</td>
<td>72</td>
<td>1828.8</td>
<td>55.6%</td>
<td>2.8</td>
<td>10.0</td>
<td>19.5</td>
<td>20.3</td>
</tr>
</tbody>
</table>
3" diameter specification sheet
Efficiency vs water flow rate
3” diameter specification sheet

Recovered energy vs water flow rate

EcoInnovation Technologies Inc.

231 Rue Ste Marie
St-Louis de Gonzague (Qc) J0S 1T0

1.888.881.7693
1.888.899.1135
info@eco-innovation.ca
www.ecoinnovation.ca
3" diameter specification sheet

Pressure drop vs water flow rate

Flow Rate (L/min)

Pressure drop (psi)

TD336B
TD342B
TD348B
TD360B
TD372B
# 3” diameter specification sheet

**NOTES:**

1. THE DRAIN SECTION IS MADE FROM “COPPER DRAINAGE TUBE” ASTM F 1807.
2. THE POTABLE WATER COIL IS MADE FROM TYPE “L” SEAMLESS COPPER WATER TUBE” ASTM B-88.
3. A 3/4” copper fitting is CSA B 137.5 and ASTM F 1807.
4. UNIT MUST BE INSTALLED VERTICALLY. MAX ALLOWANCE IS 1/8” PER LINEAR FOOT.
5. INSTALLATION DO NOT BE MADE IN A MANNER TO AVOID WATER TUBES."  

<table>
<thead>
<tr>
<th>MODEL/MODELE :</th>
<th>TDH</th>
<th>DRAIN DIA.</th>
<th>LENGTH/LONG.</th>
<th>TUBE DIA.</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3”</td>
<td>32”, 62”</td>
<td>B = 3/4” CUP</td>
<td>- DEFAULT MALE CU</td>
<td></td>
</tr>
</tbody>
</table>

- See/voir Note A

**GENERAL TOLERANCES: ±1/4”**

**TOLERANCES GÉNÉRALES +/−1/4”**

- CSA B 65.5-1 EFFICIENCY VERIFIED
- USE 32” TO 62” IN LENGTH. CSA B 65.5-1
- USE 32” TO 62” IN LÉNGUEUR EFFICACES VERIFIÉES SELON CSA B 65.5-1
- USE 32” TO 62” IN MEASUREMENT. 12” TO 12”

<table>
<thead>
<tr>
<th>POS.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DRAIN INLET / ENTREE DU DRAIN</td>
</tr>
<tr>
<td>2</td>
<td>DRAIN OUTLET / Sortie du DRAIN</td>
</tr>
<tr>
<td>3</td>
<td>FRESH WATER INLET / ENTREE EAU POTABLE</td>
</tr>
<tr>
<td>4</td>
<td>FRESH WATER OUTLET / Sortie Eau Potable</td>
</tr>
</tbody>
</table>

**PROJECT / PROJET:**

**ECOINNOVATION TECHNOLOGIES INC.**

231 Rue Ste Marie, St-Louis de Gonzague (Qc) J0S 1T0

1.888.881.7693

info@ecoinnovation.ca

www.ecoinnovation.ca