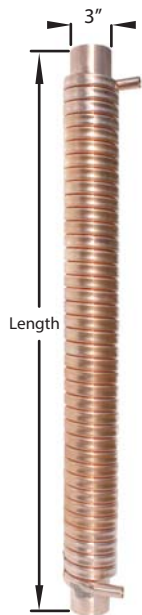


The ThermoDrain is the latest technology in Drain Water Heat Recovery. Its unique design provides outstanding savings that can be attributed to its superior performance and durability. With its exclusive features, the ThermoDrain is simply the best technology available today!



- 1 Industry leading 3/4" coil design
Extra low pressure drop
Eliminate risk for coil blockage
- 2 Single coil design
No welded joints
No possibility of leakage
- 3 Compact design
Easy to install and transport
Requires minimal installation space
- 4 Outstanding durability
Thickest copper walls on the market
10 Year Warranty
- 5 Mechanical drain couplings included
CSA B55.1 and B55.2 certified



Technical Characteristics

- Potable water tube: Made from Type "L" copper, certified to ASTM B88;
- Minimal copper coil diameter is 3/4 inch (19mm), profiled in a "D" shape to maximize heat transfer and minimize pressure drop;
- Approved maximum pressure rating of 150 lbs/in² (1035 kPa);
- Potable water connections are the required diameter to connect to the water feed for the application. [Standard diameters: 3/4, 1, 1-1/4, 1-1/2 inch (19, 25, 32, 38 mm)].

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, 4 inches, (75, 100mm)].

Certifications

The length of the heat exchanger is accordance with engineering drawings. [Standard length: 30 to 100 inches (762 to 2540 mm)]

The thermal effectiveness of the heat exchanger must be certified to CSA B55.1 (12). [All models]

The construction of the heat exchanger must be certified to CSA B55.2 (12) . [All models]

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].



Intertek Test Data Sheets

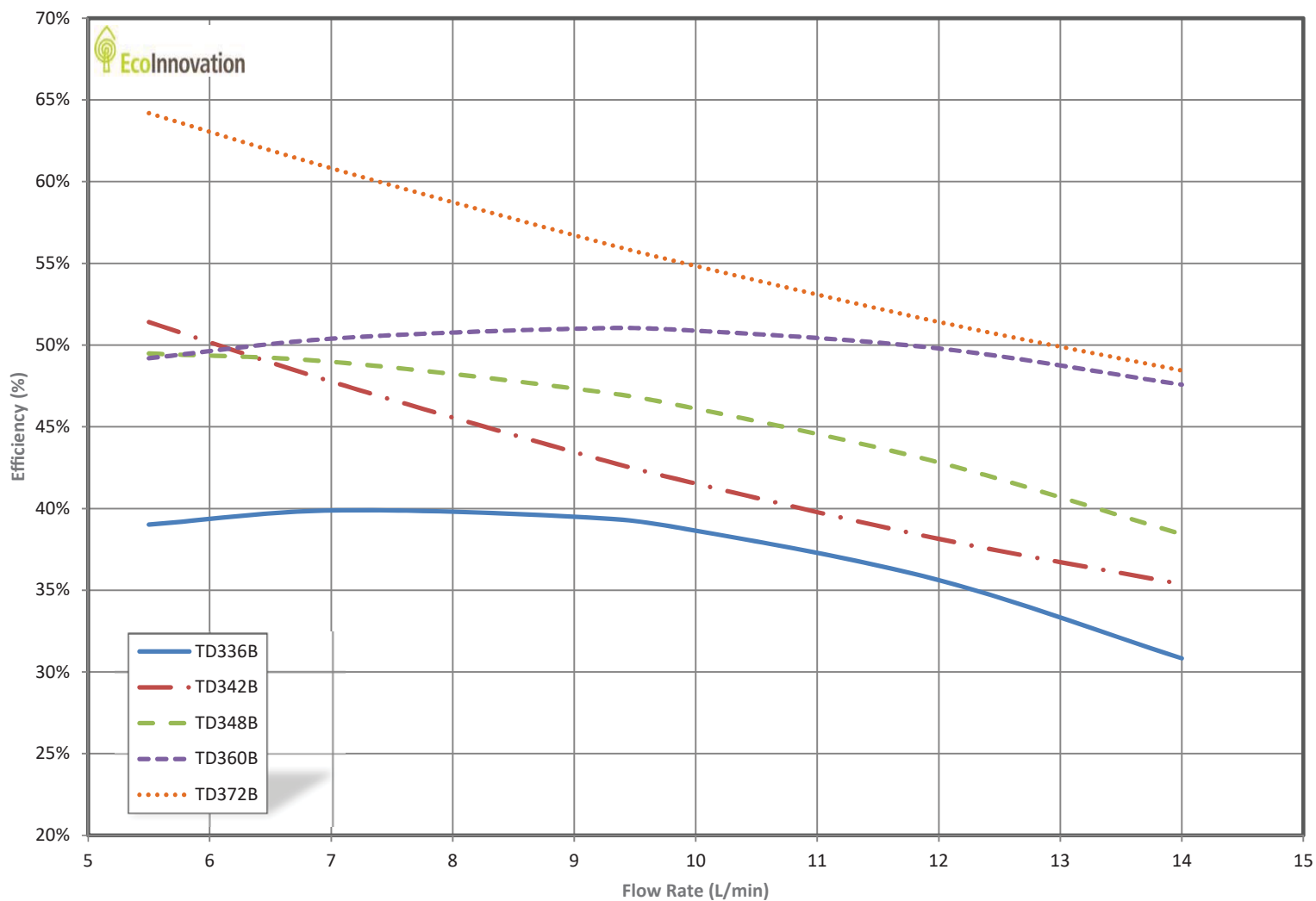
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Original Test Data

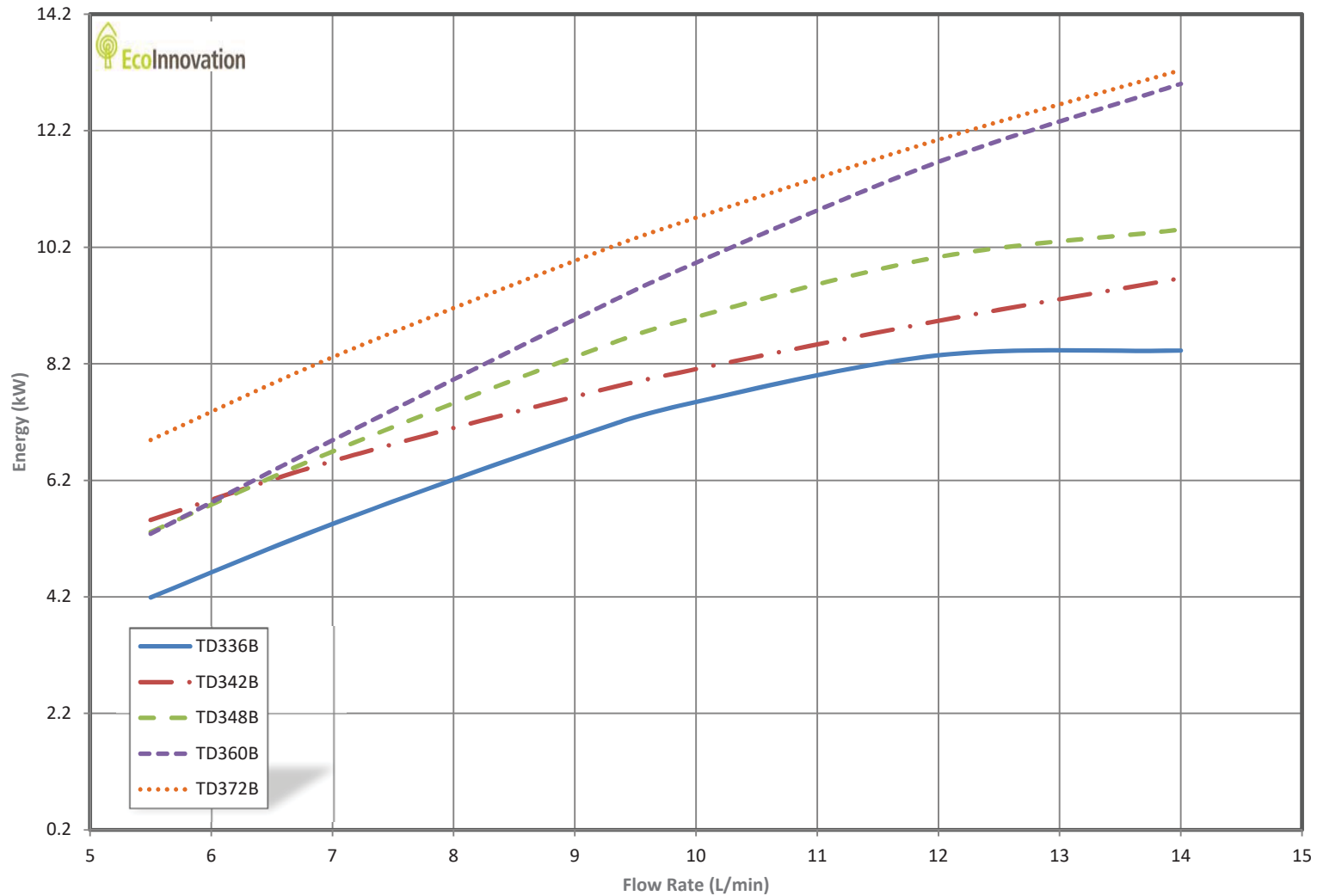
Client: ECO Innovations Technology Inc. Engineer: Blaine Serio
 Job No.: G101070334 Tested By: Pocholo Laforteza Date: 24-April-2013
 Product: Drain Water Heat Recovery Pipe Reviewed By: M. M. Rick Curkeet Date: June 17th, 2013
 Model No.: TD336B, TD342B, TD348B, TD360B, TD372 Standard(s): CSA B55.1 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

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

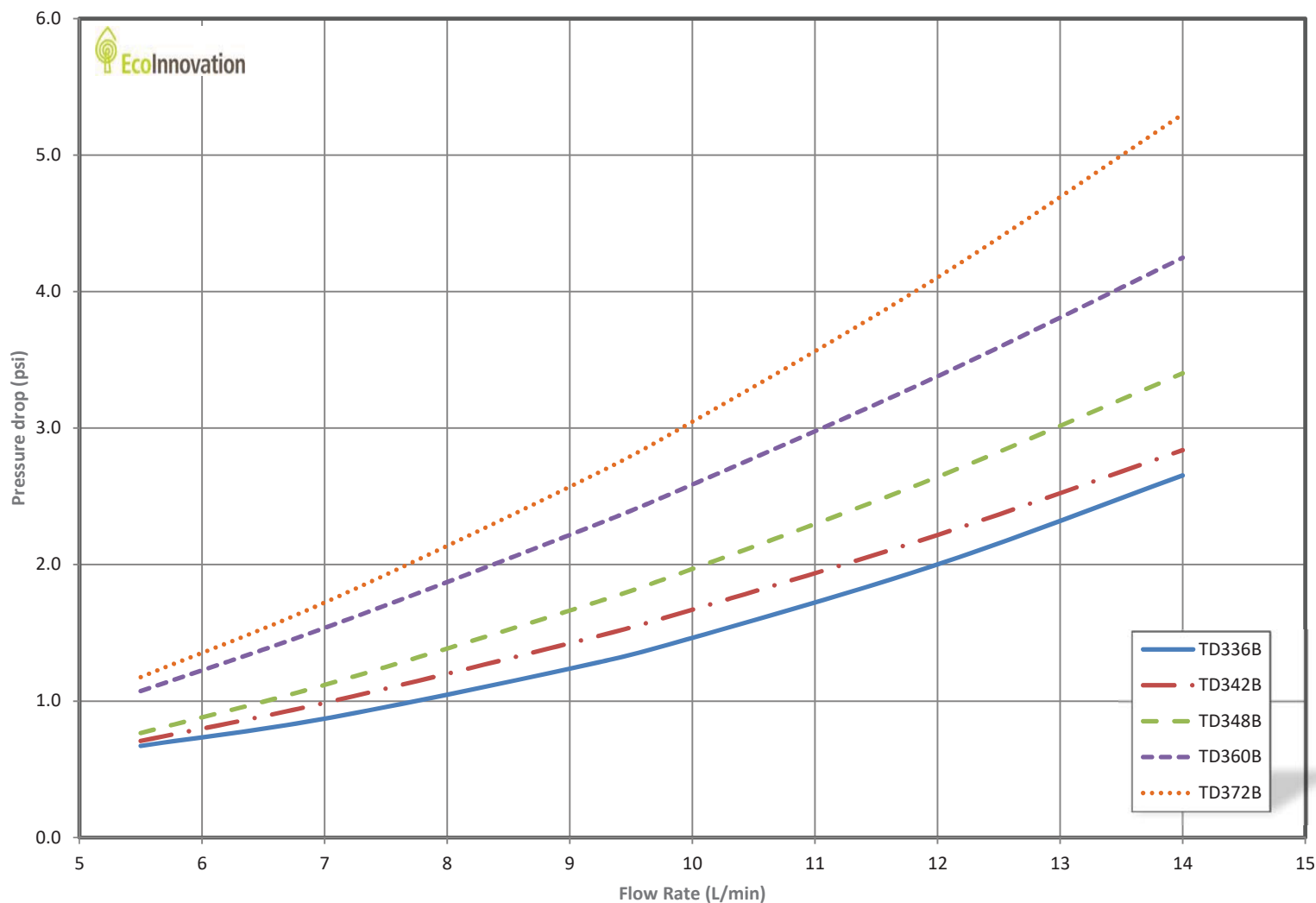
Efficiency vs water flow rate



Recovered energy vs water flow rate



Pressure drop vs water flow rate



NOTES:

1-THE DRAIN SECTION IS MADE FROM "COPPER DRAINAGE TUBE DWV" ASTM 306
1-LA SECTION DE DRAINAGE EST COMPOSÉE D'UN TUBE "COPPER DRAINAGE TUBE DWV" ASTM 306 EN CUIVRE

2-THE POTABLE WATER COIL IS MADE FROM TYPE "L" "SEAMLESS COPPER WATER TUBE" ASTM B-88
2-LA SECTION D'EAU POTABLE EST COMPOSÉE DE TUBE TYPE "L" "SEAMLESS COPPER WATER TUBE" ASTM B-88 EN CUIVRE

3-THIS END MUST BE ON TOP
3-CETTE PARTIE DOIT ÊTRE INSTALLÉE VERS LE HAUT

4-UNIT MUST BE INSTALLED VERTICALLY. MAX. ALLOWANCE IS 1/8" (3mm) PER LINEAR FEET.
4-L'INSTALLATION DOIT SE FAIRE DE MANIÈRE À CE QUE L'UNITÉ SOIT DANS UNE PENTE MAXIMALE DE 1/8" (3mm) PAR PIED LINÉAIRE DE LA VERTICALE

5-GENERAL TOLERANCES ±1/4" (7mm)
5-TOLÉRANCES GÉNÉRALES ±1/4" (7mm)

A-STOCK LENGTHS SHOWN, INDICATE OTHER LENGTH AS REQUIRED - 6" to 100"
A-LONGUEURS EN INVENTAIRE, INSCRIRE LA LONGUEUR REQUISE - 6" À 100"

MODEL/MOÛLE : TD

SERIES/SÉRIE	DRAIN DIA. "K"	LENGHT/LONG. "L"	TUBE DIA. "M"	NB SECTIONS	CONNECT/RACCORD
2" (50mm)	36" (914mm)	A=1/2" (12mm)	- (DEFAULT 1)	- (DEFAULT= "M")	
3" (75mm)	40" (1016mm)	B=3/4" (19mm)	2	B=3/4" (19mm)	
4" (100mm)	42" (1067mm)	3	C=1" (25mm)		
	48" (1219mm)		D=1-1/4" (32mm)		
	60" (1524mm)		E=1-1/2" (38mm)		
	72" (1829mm)				

SEE/VOIR Note A

② DIM "M" ③ SEE/ VOIR NOTE 3 ④ DIM "M"

"L"-4" [100] APPROX.

1-1.8" [25-45] Typ.

"K"+1.5" [38]

CONFIG. 1 SECTION

CONFIG. MULTI SECTIONS (EX. 2) (NTS)

POS.	DESCRIPTION
1	DRAIN INLET / ENTRÉE DU DRAIN
2	DRAIN OUTLET / SORTIE DU DRAIN
3	FRESH WATER INLET / ENTRÉE EAU POTABLE
4	FRESH WATER OUTLET / SORTIE EAU POTABLE

PROJECT / PROJET:			
APP:	DATE:		
ECOINNOVATION TECHNOLOGIES INC. 231 RUE STE-MARIE, ST-LOUIS-DE-GONZAGUE, QC, J0S 1T0 T: 1-888-881-7693 F: 1-888-899-1135			
1	30/01/14	GENERAL REVISION	MF
1	02/03/13	GENERAL REVISION	MF
REV	DATE	MODIFICATION	BY/PAR
TITLE:			TITRE:
SHOP DRAWING DESSIN D'ATELIER			
DRAWING NO.: THERMODRAIN SERIES		DESSIN NO.:	
SCALE: 1:8	UNIT: B	DATE: 22/06/12	REV: 1
			REV: 1/1