

DWHR Test Report

Manufacturer Watercycles
Model number: DX 3058
Test date: Nov 21,2007

Testing Performed by
Saskatchewan Research Council
www.src.sk.ca

Characteristics:

Overall length: 1473 mm 58 in
Drain diameter: 75 mm 3 in

Results at standard conditions: (9.5 L/min flow at 36 C/ 2.5 GPM at 96.8F)

Heat Recovery Efficiency: 42% (steady state)
Heat Recovery Rate: 7.54 kW 25740 BTU/hr
Pressure Drop: 16.7 kPa 2.4 psi

**Drain water in: 37.0 C
98.6 F**



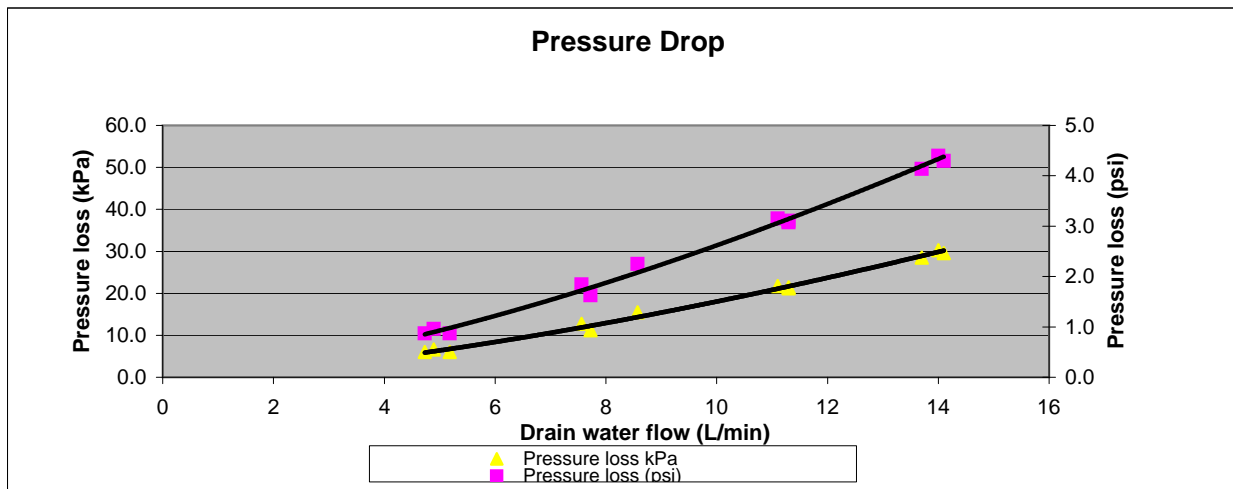
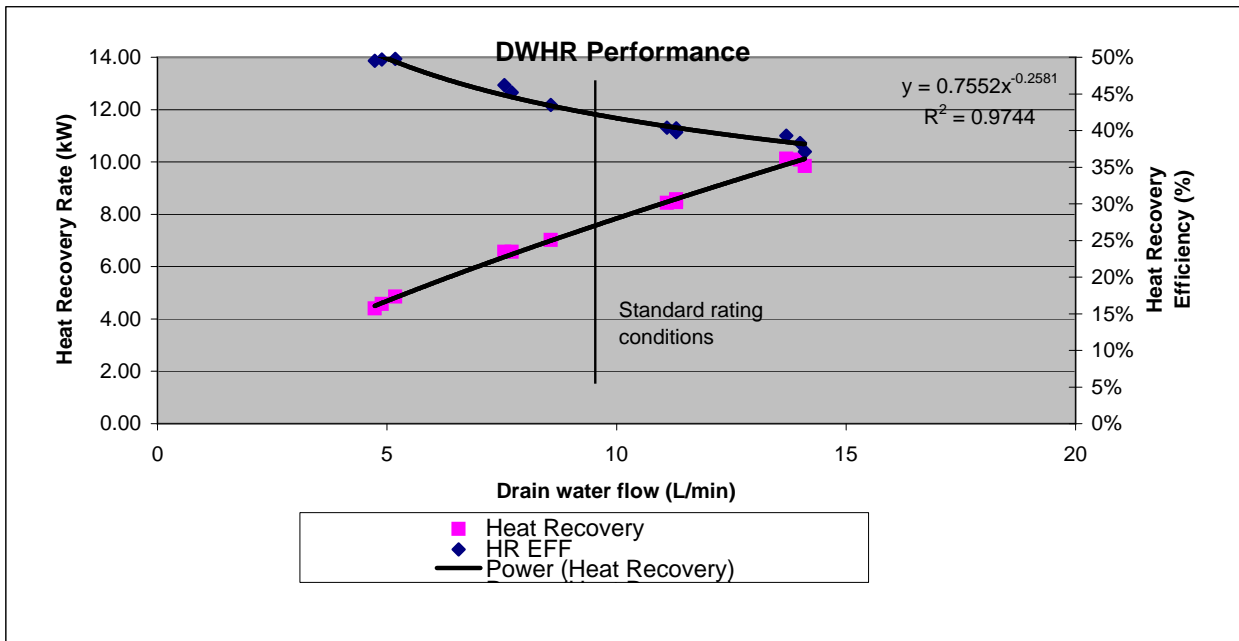
**21.4 C Preheated
70.5 F water to
house**

**Cold water 10.0 C
(city or well) 50.0 F**

**Drain water 25.4 C
77.7 F**

Detailed results:

Flow L/min	HR EFF %	Heat Recovery kW	P Drop kPa	P Drop psi
4.89	50%	4.57	6.6	1.0
7.56	46%	6.57	12.7	1.8
11.3	40%	8.57	21.4	3.1
13.7	39%	10.13	28.5	4.1
4.73	50%	4.40	6.0	0.9
8.57	44%	7.01	15.5	2.2
11.1	40%	8.44	21.7	3.1
14	38%	10.09	30.3	4.4
5.18	50%	4.85	6.0	0.9
7.72	45%	6.56	11.2	1.6
11.3	40%	8.46	21.2	3.1
14.1	37%	9.84	29.6	4.3



Drain Water Heat Recovery Test Report

Manufacturer: Watercycles
Model number: DX-4048
Test date: 2008-Sep-18

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Characteristics:

Drain length: 1200 mm (48 in)
Drain diameter: 102 mm (4 in)

Coil Length: 1120 mm
Weight: 14.3 kg

Type: Split coil

Results at Standard Conditions:

Heat Recovery Efficiency: **43.5%** (steady state)
Heat Recovery Rate: **8.1 kW**
27500 BTU/hr
Pressure Drop: **12.5 kPa**
1.8 psi

Standard Conditions:

Flow: 9.5 L/min (2.5 USGPM)

Drain water temperature in: 36 °C (97 °F)

Cold supply temperature in: 8 °C (46 °F)

Balanced flow with equal drain and potable flows

1 psi = 6.89 kilopascals

1 USGPM = 3.78 L/min

Drain Water In
36.0 °C
96.8 °F

Cold Water In
8.0 °C
46.4 °F



Preheated Water Out
20.2 °C
68.3 °F

Drain Water Out
23.8 °C
74.9 °F

Manufacturer: Watercycles
Model number: DX-4048
Test date: 2008-Sep-18

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Detailed results:

Flow (L/min)	Effectiveness (%)	Recovery Rate (kW)	Pressure Drop	
			(kPa)	(psi)
3.60	45.3%	2.98	3.1	0.5
8.05	45.2%	7.03	9.3	1.4
12.02	39.3%	9.16	17.9	2.6
13.95	35.2%	9.91	22.4	3.3
Standard Conditions 9.5	43.5%	8.06	12.5	1.8

