

BrightWater Vacuum Flow™ Showerheads Savings Analysis

			Existing Showerheads	Oxygenics Showerheads
Average flow rate of existing showerhead	8 L/min			
Water Pressure	2 bar			
Flow rate of BrightWater showerhead	4 L/min	Water usage per annum	4,680 m³	2,340 m³
Number of showerheads	150	Water cost per annum	£19,890	£9,945
Number of minutes usage per shower	15 min/day	Energy cost per annum	£4,076	£2,038
Days in use per week	5			
Water & waste charges per m ³	£4.25	Total ownership cost	<u>£23,966</u>	<u>£11,983</u>
Energy cost	**£0.027 KWh			

Annual savings with BrightWater Showerheads = £11,983 p.a.

Savings made by each BrightWater Showerhead = £79 p.a.

Calculation based on a 27 °C rise from 13 °C inlet temperature to 40 °C shower outlet temperature. Fuel cost calculated by m³ divided by factor 0.031 x cost per KWh. (0.031 is a factor that computes the number of BTUs at a water heater efficiency of 100% and converts that number of BTUs to KWh.) 3.413 BTUs = 1KWh

*Water & waste charges taken from Ofwat for South West Water 2008 - 2009

**Energy cost per KWh from EDF Energy for gas at the national standardised rate for business users