



WATER SAVING SYSTEM

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## EXAMPLE OF SAVINGS (AVERAGE HOUSEHOLD, 2 PERSONS)

The result varies depending on the number of people living in each apartment and on the local energy and water prices.

Place of use (water temperature 40°C)	Time in use (minutes/day)	Saving effect (liters/minute)	Total savings (liters/day)
Sink	7	3,8	27
Washbasin	5	3,8	19
ELLESS hand shower	10	4,5	45
Low-flow shower hose	10	1,5	15
<b>Sum</b>			<b>106</b>
<b>Annual savings</b>			<b>0,106 x 365 = 39m<sup>3</sup></b>

### Energy costs

In the example, we have used a water temperature of 40 degrees Celsius. To increase the temperature of one m<sup>3</sup> of water by one degree, approximately 1.16 kWh are needed. To heat 1 m<sup>3</sup> of 8-degree water,  $(40 - 8) \times 1.16 = 37$  kWh are consumed. Heating and distribution losses are approximately 10 %. This means that actually  $37 \times 100/90 = 41$  kWh are needed. The average price of energy in Sweden (taxes not included) are SEK 0,80 per kWh. Thus, the total heating costs per m<sup>3</sup> of water from 8 to 40 degrees Celsius are  $0.80 \times 41 =$  SEK 32,80. The median price of fresh water is SEK 17.50 per m<sup>3</sup>.

### Savings

1 m<sup>3</sup> of hot water (40° C) costs  $32,80 + 17,50 =$  SEK 50,30. The savings, as a result of installing ELLESS® water saving products, is according to the calculations above  $39 \times 50,30 =$  **SEK 1962 per apartment and year!**

### One-person households

It is definitely a good investment, even for one-person households, to install ELLESS water saving products. **You can save up to SEK 950 every year.** Make an estimate of your own daily water consumptions and use the table above to calculate your potential annual savings.