

Zip HydroTap Energy Bulletin

Zip HydroTap Domestic Range of Products

Update: 27 February 2008

Zip and the Environment

Zip policy with regard to the environment is one of minimal waste and the sparing use of resources. In the manufacture and distribution of our products, Zip aims to conserve energy and the Earth's natural resources. This is reflected in all aspects of our business, in particular:

- + The design and performance of our products are quality endorsed and safety certified.
- + Best-practice manufacturing processes including recyclable packaging, material recycling, and use of rainwater tanks.
- + Recycling and proper disposal of end-of-life by our installation and service technicians.

Zip HydroTap Energy Efficiency Facts

Two built-in energy efficient, power-saving timer options.

First, a 7-day/24hr clock that turns the unit off at user-set times so power can be turned off when not in use.

Second, a power-saving sleep mode that will power the unit down after a period of no activity (as user pre-set 2 or 4 hours), phasing only enough energy to keep the boiling tank above 64°C, a temperature recommended to avoid bacterial growth. Full operational mode is returned in both settings at the touch of a lever.

Air-cooled system means no water wastage to run the unit.

The Zip HydroTap only dispenses the water you use so there is no water wasted to operate the system. Some water-cooled competitor models are known to dump 17 litres of water down the drain when in standby mode over a 24 hour period – *the equivalent to wasting 6,205 litres of drinkable water each year.*

Fully insulated under-sink operating system to effectively minimise energy loss and ensure water temperatures are accurately maintained.

Costs less than 12 cents* per day to dispense both boiling and chilled water in an instant.

Uses less energy than a traditional 50 watt light globe.

**Based on boiling & chilled domestic model*

Energy Consumption Efficiency Overview:

The table on the next page indicates the power consumption of the Zip HydroTap domestic range of products in an assumed typical 24 hour day of operation. The table also indicates the additional costs and energy consumption associated with boiling **each** cup of water and chilling **each** glass of water.

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Testing Results:

Energy Efficient Table for the Zip HydroTap Domestic Range of Products										
Model	Assumed typical 24-hour day				PLUS for each 167ml cup of boiling water (B) or 200ml glass of chilled water (C)					
	Power Usage (Watt Hours)	#Equivalent watt light globe	CO ₂ emission (kg)	Cost	Power Usage (Watt Hours)		CO ₂ emission (kg)		Cost	
					B	C	B	C	B	C
Boiling & Chilled	942	40	0.77	\$0.11	12	4.5	0.0098	0.0037	\$0.0014	\$0.0005
Boiling & Ambient	696	30	0.57	\$0.08	12		0.0098		\$0.0014	
Boiling Only	696	30	0.57	\$0.08	12		0.0098		\$0.0014	

Definitions:

Typical 24-hour Day is based on an assumed day of operation including 12 hours in normal operational mode, 12 hours in power-save sleep mode (overnight), and 10 minutes full recovery. ***In actual fact, for most homes, the unit would likely spend more than 12 hours in sleep mode and be even more efficient.***

Normal Operational Mode is when the unit is fully operational maintaining the boiling and chilled tanks at optimal temperatures, ready for use.

Power-Save Sleep Mode, when activated, will power the unit down after a period of no activity (as set to 2 or 4hrs), phasing only enough energy to keep the boiling tank above 64°C, a temperature recommended to avoid bacterial growth[#]. Full operational mode is returned at the touch of a lever.

[#]Although bacteria growth in sealed tanks is unlikely, there is still a slight chance if water drops below the recommended temperature. Therefore Sleep Mode is a preventative safety mechanism particularly relevant to children, the elderly or in a healthcare environment while still minimising energy consumption

Test conditions: Boiling at 98°C and Chilled between 5-10°C

[#]Equivalent light bulb wattage power consumption compared to the consumption of the Zip HydroTap unit over same 24 hour period (i.e. a 20 watt globe over 24 hours equals 480 watts)

CO₂ emissions based on 819kg of CO₂ per 1000 kWh of electricity consumed
Cost per day calculated at AUS 12 cents per kWh

Conclusion:

The power consumption on the Zip HydroTap domestic range of products is similar to the daily consumption of a standard light globe. By activating the units automatic Power-Save Sleep Mode, daily running costs for the Zip HydroTap range is minimised, making it a cost-effective and convenient choice for kitchens and tearooms.

The table also shows that the additional usage cost and energy consumption for boiling each cup of water or to chill each glass of water is very minimal, ***only a fraction of a cent*!***

In fact, you can make 7 cups of your favourite hot beverage or have 20 refreshing glasses of chilled water for only 1 cent* extra!

In total, it costs less than 12 cents* a day to enjoy the ultra-convenience of boiling and chilled filtered water in an instant!

*Based on power consumption costs only

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