

# Zip HydroTap

The environmentally responsible choice



Designed with  
energy efficiency  
and sustainability  
in mind



# Independently verified Environmental Product Declaration

Zip Water has released an internationally recognised and independently verified EPD for its HydroTap products. Developed with leading sustainability consulting company, thinkstep-anz, it is the first EPD for an electrical product in Australasia, clearly demonstrating Zip's innovative and forward-thinking approach.

The HydroTap EPD details the environmental impact of the product throughout its lifecycle, from the production and processing of raw materials, to manufacturing, distribution, installation, ongoing usage, maintenance and filter changing, right down to the end of the product's life.

**Australians buy OVER 580 MILLION litres of bottled water a year.**

**Much of which ends up in LANDFILL and on our BEACHES\*.**

## Responsible manufacturing

Organisational dedication to sustainability

ISO 14001

## Low impact design

Complies with RoHS EU Directive 2002/95/EC



## World class environmental credentials

Providing transparent product life cycle impact



## Innovative air-cooled technology

Making HydroTap 100% water efficient



## Smart energy saving modes

Time switch adheres to the Building Code of Australia



## Eliminates the need for bottled water

Reducing your environmental impact



## The life of a Zip HydroTap

EPD®  
THE INTERNATIONAL EPD® SYSTEM



# Sustainable manufacturing

The Zip HydroTap G5 is Australian-made in Condell Park, New South Wales and exported to the rest of the world. Zip's manufacturing adheres to the high standards of environmental responsibility and ensures the Zip HydroTap is manufactured sustainably.

ISO14001 is about much more than just designing an energy efficient product. It is complete organisational dedication to sustainable environmental management and ensures genuine commitment to a sound environment management system.

**Zip Water is accredited with all of the following internationally recognised standards:**



Environment  
ISO 14001

**ISO14001 –**

Environmental Management  
System



Quality  
ISO 9001

**ISO9001 –**

Quality Management System



Health & Safety  
ISO 45001

**ISO45001:2018 –**

Occupational Health and  
Safety Management System

## Solar panel rollout

Zip Water is committed to being an environmentally responsible Australian company, adopting a renewable energy approach to manufacturing and implementing solar panels in the Condell Park facility.

In 2021 and 2022 the solar panels respectively generated between 15% and 17% of total energy for the operations site. Looking forward, Zip Water has committed to an expansion of solar panels ensuring improved renewable energy generation year on year.





# Energy efficient

## Smart energy saving modes

The HydroTap LCD touch screen provides control to be able to set energy efficient, quiet and sleep modes for low use or non-use times and 7 day a week ON/ OFF timer.

## Patented PowerPulse® technology saves energy and maintains perfectly boiling water

Patented Zip PowerPulse™ technology is the most efficient way of heating and maintaining set boiling water temperature. Unlike other heating systems, PowerPulse™ delivers a precise amount of energy to the heating element to ensure it does not over or under shoot the target boiling water temperature.

Once the set boiling temperature is reached, it then manages energy using small pulses to ensure the target temperature is precisely maintained.

**Energy efficiency translates into savings on running costs when in normal use, on standby and in sleep mode:**

**Provides pure-tasting chilled water on tap to meet the needs of the anti-single use plastic bottle movement**

	On 24 hours		Sleep mode	
Model	Average hourly power consumption at full operating temperature continuously but no water drawn off (kWh)	Cost/day	Average hourly power consumption using sleep mode from 5pm to 7am but no water drawn off (kWh)	Cost/day
G5 BC 40 G4 BC 160/125	0.036kWh	\$0.24	0.029kWh	\$0.19
G5 BC 100 G4 BC 240/175	0.037kWh	\$0.25	0.031kWh	\$0.21

	Off overnight		Boiling cost per cup		Chilled cost per glass	
Model	Average hourly power consumption switching off between 5pm and 7am but no water drawn off (kWh)	Cost/day	Additional energy used per cup (167ml) of boiling water consumed (kWh)	Cost/cup	Additional energy used per glass (200ml) of chilled water consumed (kWh)	Cost/glass
G5 BC 40 G4 BC 160/125	0.024kWh	\$0.16	0.016kWh	\$0.00448	0.0032kWh	\$0.000896
G5 BC 100 G4 BC 240/175	0.026kWh	\$0.17	0.017kWh	\$0.00476	0.0036kWh	\$0.001008

### Example – Office:

Running cost of a G5 BC 40 or G4 BC 160/125 in an office of **50 people**:

• set to “off overnight mode” (switched off between 5pm and 7am)	\$0.16
• assuming each person consumes 2 cups of boiling water	\$0.448
• assuming each person consumes 3 glasses of chilled water	\$0.134
<b>Daily Total</b>	<b>\$0.74</b>
<b>Weekly Total</b>	<b>\$3.71*</b>

### Assumptions:

- Cost per day is calculated at AUD \$0.28 per kWh. Sourced from canstarblue.com.au November 2022 average rates across NSW, QLD, VIC, SA.
- Calculations are approximate only
- \* Switched off Saturday and Sunday

Testing conducted by UNSW Global Pty Limited / Unisearch Expert Opinion Services. Reference J087275 Zip HydroTap G4 and G5 energy consumption values are equivalent.

# 100% water efficient

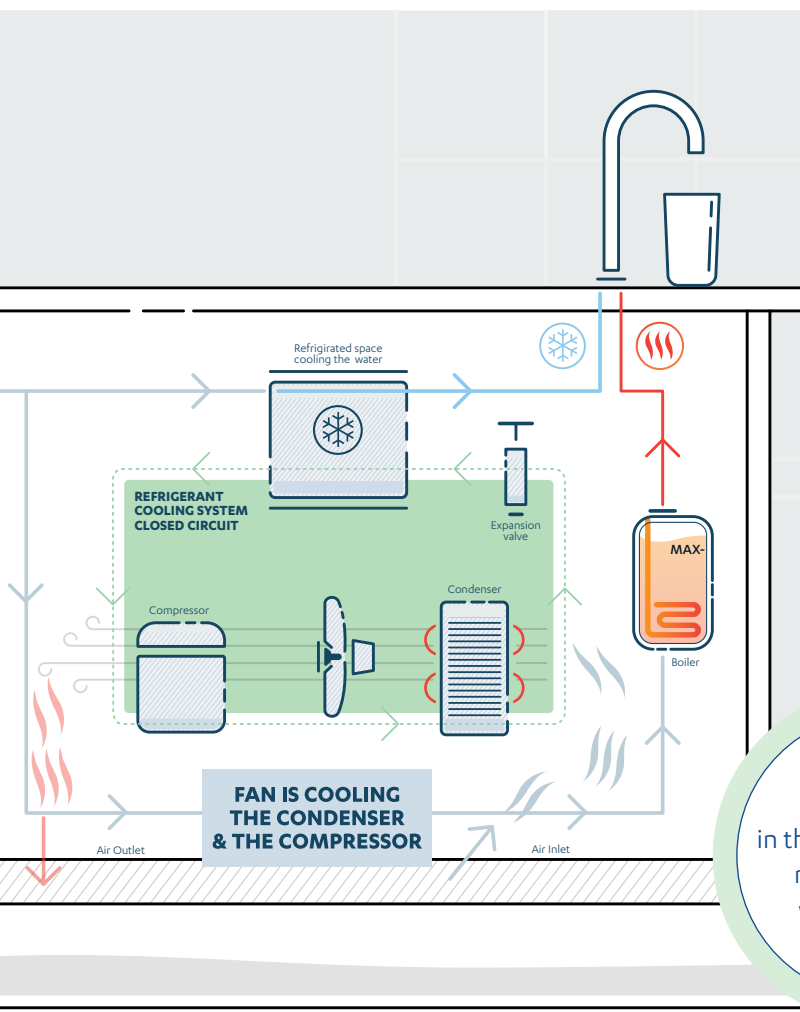
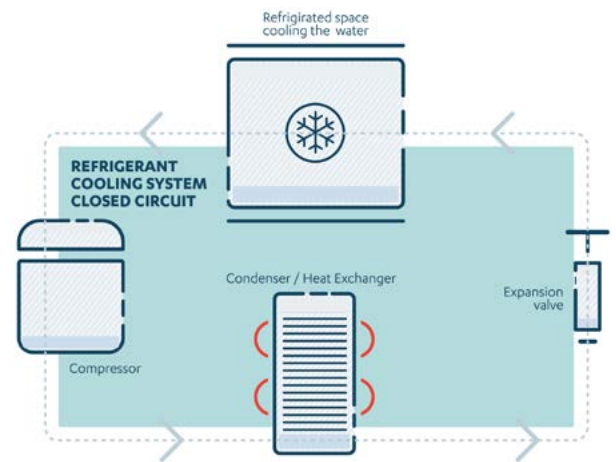
## Direct DryChilling is 100% water efficient and delivers perfectly chilled water.

Closed refrigeration forced air cooled systems are 100% water efficient with rapid chilling and heat transfer capabilities delivering consistently colder chilled water.

Forced air cooling removes waste heat that is generated as part of the refrigeration process for cooling water. No water is used as part of this process, making it 100% water efficient.

## The refrigeration process explained

The refrigeration process generates heat when water is cooled to create chilled water and this heat is removed by air cooling.



No water used  
in the chilling process  
making it 100%  
water efficient

## Air Cooling

Air cooled systems use the air in the environment to remove heat that has been generated as part of the refrigeration process to create chilled water.

In forced air cooling systems, fans are used to push air through the condenser and over the compressor to remove heat and to increase efficiency of the chilling process.

**Air cooled systems work most efficiently when appropriate ventilation is used as part of the installation process.**

# Single-use plastic solution

Zip Water's number one commitment is to provide greater sustainability through the reduction of single-use plastics. The award-winning HydroTap provides clean, safe, pure-tasting water while eliminating the need for plastic water bottle use.

The table below shows the amount of single-use plastic bottles saved over the life of Zip Water's HydroTap models.

Zip HydroTap Model	Water Type	Single-use Plastic Bottles Saved <sup>1</sup>
B Home	●	—
B 60	●	—
B 100	●	—
BA Home	● ●	5,843
BA 60	● ●	15,312
BA 100	● ●	37,369
C Home	●	17,530
C 40	●	63,900
C 100	●	136,928
CS Home	● ●	17,530
CS 100	● ●	136,936
BC Home	● ●	12,273
BC 20	● ●	36,514
BC 40	● ●	63,899
BC 60	● ●	109,542
BC 100	● ●	136,928
BCS Home	● ● ●	12,273
BCS 20	● ● ●	36,514
BCS 60	● ● ●	109,571
BCS 100	● ● ●	136,928



Water Type	Comparative Product
● <b>Boiling</b>	Boiling tap water from kettle
● <b>Chilled</b>	500 mL single use plastic water bottle (chilled)
● <b>Sparkling</b>	500 mL single use plastic sparkling water bottle (chilled)
● <b>Ambient</b>	500 mL single use plastic water bottle

<sup>1</sup> Based on the same volume of water consumed with Zip products and vs 500 ml PET plastic water bottles. Results are based on 7-year life cycle for commercial products and 10-year life cycle for home.

# Climate impact

Zip Water is committed to reducing climate impact. Zip conducted an independent-expert-reviewed, ISO 14040-44 conforming Life Cycle Assessment (LCA) of the award-winning HydroTap products.

This LCA analysed the climate impact and resource use of HydroTap products across their full life cycle, including acquisition of raw materials, manufacturing, distribution, usage, and disposal, and compared these impacts to relevant alternative products.

This table shows the differences in greenhouse gas emissions between HydroTap products and their respective comparative products.

Zip HydroTap Model	Water Type	HydroTap Emissions	Comparative Product <sup>1</sup>	Saved
Measured in kg CO <sub>2</sub> e				
B Home	●	2,678	1,021	-1,658
B 60	●	2,773	2,793	21
B 100	●	3,997	5,986	1,989
BA Home	● ●	2,683	1,195	-1,488
BA 60	● ●	2,775	3,313	539
BA 100	● ●	4,000	7,100	3,101
C Home	●	880	2,690	1,810
C 40	●	1,087	9,805	8,718
C 100	●	1,404	21,010	19,606
CS Home	● ●	1,230	3,174	1,944
CS 100	● ●	2,166	24,790	22,624
BC Home	● ●	2,401	2,598	197
BC 20	● ●	2,824	7,199	4,375
BC 40	● ●	3,588	12,598	9,010
BC 60	● ●	3,362	21,597	18,234
BC 100	● ●	4,985	26,996	22,011
BCS Home	● ● ●	2,883	2,937	53
BCS 20	● ● ●	3,364	8,207	4,843
BCS 60	● ● ●	4,298	24,626	20,328
BCS 100	● ● ●	5,841	30,774	24,933



**A Zip HydroTap can produce up to 90% less emissions than single-use plastics in a commercial setting**

Water Type	Comparative Product
● <b>Boiling</b>	Boiling tap water from kettle
● <b>Chilled</b>	500 mL single use plastic water bottle (chilled)
● <b>Sparkling</b>	500 mL single use plastic sparkling water bottle (chilled)
● <b>Ambient</b>	500 mL single use plastic water bottle

<sup>1</sup> Comparative product calculation is based on the following: Franklin Associates, a. d. (2009). Life cycle assessment of drinking water systems: bottle water, tap water, and home/office water delivery water. Land Quality Division, 138-147. Alejandro Gallego-Schmid, H. K. (2018). Life cycle environmental evaluation of kettles: Recommendations for the development of eco-design regulations in the European Union. Science of the Total Environment.

Based on externally-reviewed LCA of Zip HydroTap, product of Culligan Group. Results may change when final LCA of all other Culligan products is complete.

Results are based on 7 year life cycle for commercial products and 10 year life cycle for home. Kg CO<sub>2</sub>e stands for kilogram CO<sub>2</sub> equivalent.



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