Zip HydroTap

The environmentally responsible choice

Designed with energy efficiency
and sustainability in mind



The latest innovation in Zip HydroTap G5 Our most eco-friendly HydroTap*



*when compared to preceding HydroTap models



Designed for sustainability

Includes a more eco-friendly refrigeration system

Zip HydroTap now uses R290 refrigerant gas delivering a 95% reduction in Global Warming Potential (GWP) compared to the previous refrigerant gas used.

100% water efficient

Using air-cooling technology to deliver perfectly chilled water means the Zip HydroTap is 100% water efficient as no water is used in the chilling process.

Improved energy efficiency

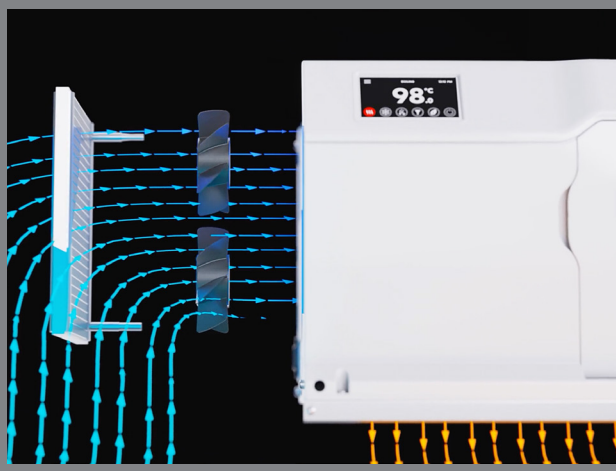
The new front fascia and integrated airflow vent design in the command centre of the Zip HydroTap enables improved energy efficiency, allowing air to be expelled out of the cupboard more quickly and efficiently.

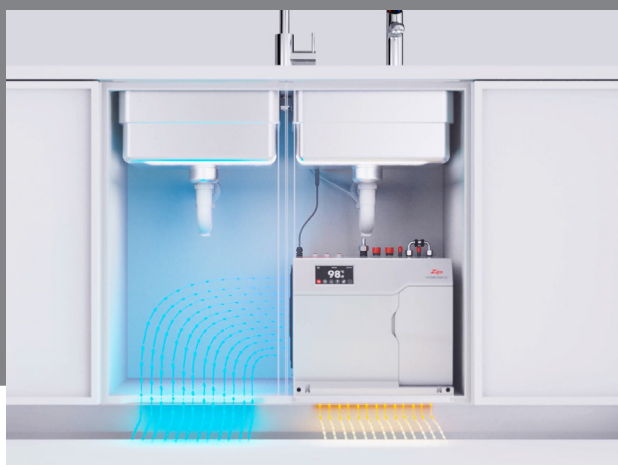
At high usage periods, the HydroTap continues to deliver consistent chilled water while optimising energy efficiency by up to 24%. In standby mode, the HydroTap is 10% more energy efficient while ensuring consistent chilled temperatures on demand.

NATURAL REFRIGERANT R290 ENVIRONMENTALLY FRIENDLY

POWERED BY G5 TECHNOLOGY







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 — EPD

More eco-friendly Refrigeration System
Uses R290 Low Global Warming Potential (GWP) refrigerant gas — R290

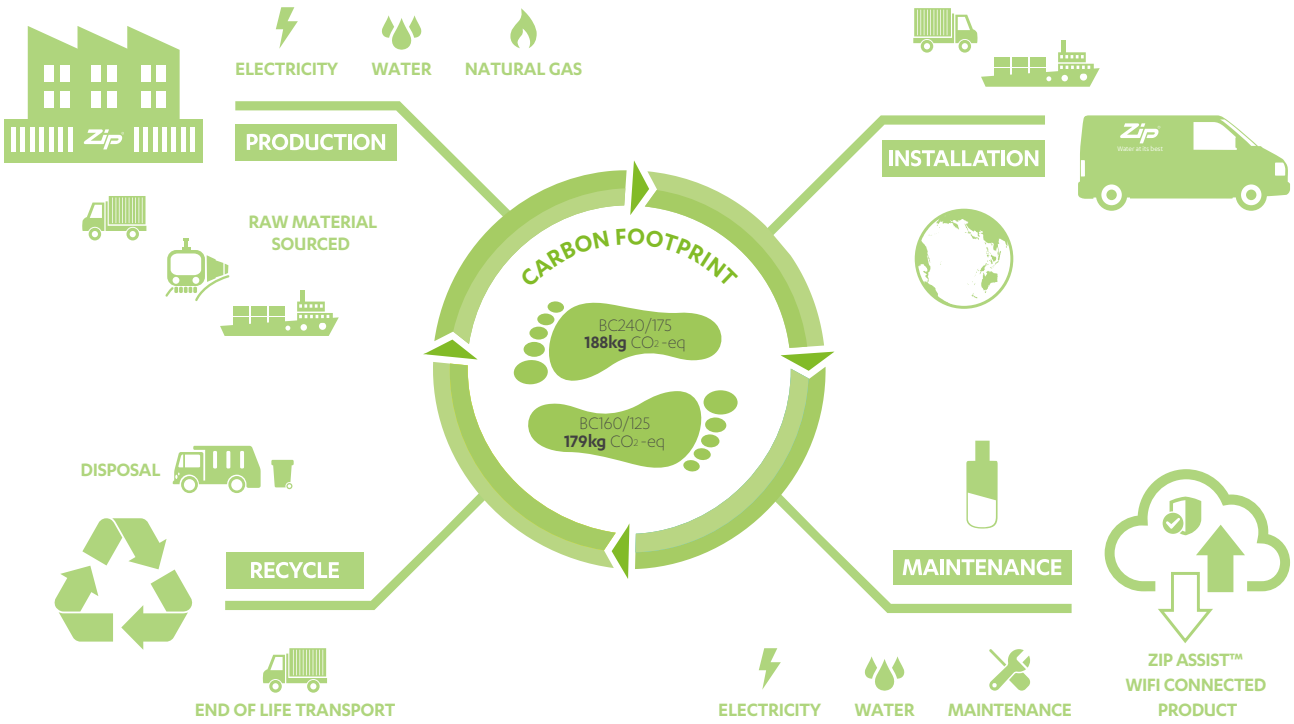
Innovative air-cooled technology
Making HydroTap 100% water efficient

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



Produced under EPD Australasia in accordance with ISO 14025 and EN 15804+A1

* oceancrusaders.org/plastic-crusades/plastic-statistics/

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

OHS
ISO 45001

ISO45001 –

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.



Zip Sustainability Credentials

Our commitment to continuous improvement in sustainability

For a second year in a row, Zip Water has been awarded a Gold sustainability rating by EcoVadis, the world's largest and most trusted provider of business sustainability ratings, intelligence and collaborative performance improvement tools for global supply chains. Submitting to a rigorous review process that covered four areas of the business, Environment, Ethics, Labour and Human Rights, and Sustainable Procurement, Zip was found to be in the 93rd percentile of companies assessed by EcoVadis. The ratings and scorecards demonstrate how well a company has integrated the principles of sustainability into its business and management system, while also providing feedback for future improvements.

Zip Sustainability report

Zip Water's Environmental, Social and Governance (ESG) report is available on the Zip website. This report reflects Zip's commitment to transparency and accountability, showcasing our journey, our strengths, and areas where we can improve. We're driven by innovation, constantly seeking ways to provide health, wellness, and environmental benefits to our consumers.



Product packaging targets

Our ambition is to eliminate unnecessary and problem materials from our packaging by redesigning or reusing them. We are proud member of APCO and a partner of Better Packaging Co.

Our targets include:

100% of packaging reusable, recyclable or compostable by end of 2024

> 70% of plastic packaging is recycled or compostable

> 50% average recycled content within packaging

100% of problematic and unnecessary single-use plastics packaging is phased out.

For more information, visit: **zipwater.com/sustainability**

HydroTap impact calculator

Available on the Zip website, the calculator quantifies how many single-use plastic bottles you would save from using a residential or commercial HydroTap.

By using a commercial HydroTap with boiling and chilled water for up to 20 people, over 7 years:

I will save:

36,514 500 mL single-use plastic bottles

585 kg of plastic

4,397 kg of CO_2eq



Energy efficient

Provides pure-tasting chilled water on tap, reducing the amount of single use plastic bottles which end up in landfill each year

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:

	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 **40 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
Daily Total	**$0.74**
Weekly Total	**$3.71***

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

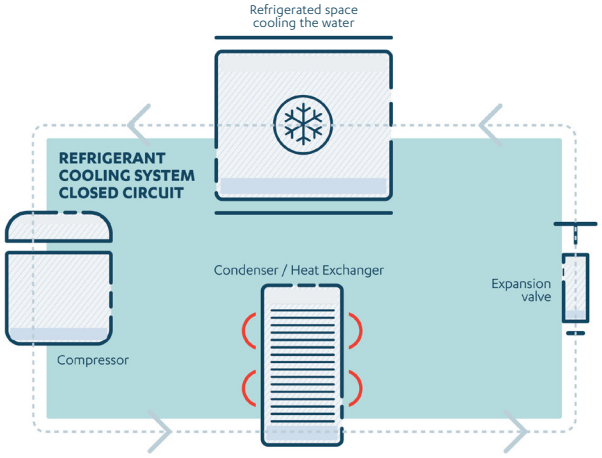
Direct DryChilling is 100% water efficient and delivers perfectly chilled water.

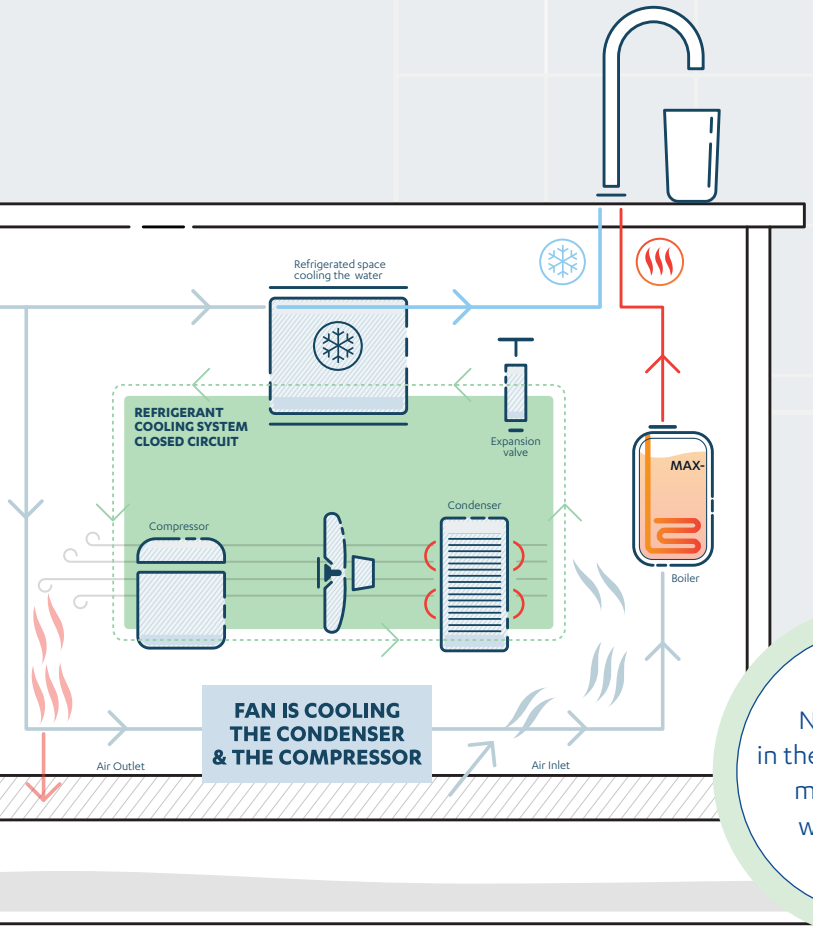
Closed refrigeration forced air cooled systems are 100% water efficient with rapid chilling and heat transfer capabilities delivering consistently colder chilled water.

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[1]
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

Over 2 billion single-use plastic bottles saved every year from landfill



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

[1] 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[1]	Saved
		Measured in kg CO_2e		
B Home	●	2,666	1,021	-1,646
B 60	●	2,761	2,793	33
B 100	●	3,984	5,986	2,002
BA Home	● ●	2,670	1,195	-1,475
BA 60	● ●	2,763	3,313	551
BA 100	● ●	3,986	7,100	3,114
C Home	●	858	2,690	1,832
C 40	●	1,058	9,805	8,747
C 100	●	1,374	21,010	19,636
CS Home	● ●	1,193	3,174	1,981
CS 100	● ●	2,113	24,790	22,677
BC Home	● ●	2,378	2,598	220
BC 20	● ●	2,802	7,199	4,397
BC 40	● ●	3,558	12,598	9,040
BC 60	● ●	3,331	21,597	18,265
BC 100	● ●	4,952	26,996	22,043
BCS Home	● ● ●	2,842	2,937	94
BCS 20	● ● ●	3,320	8,207	4,886
BCS 60	● ● ●	4,244	24,626	20,382
BCS 100	● ● ●	5,786	30,774	24,989

Drinking from a HydroTap in a commercial environment has up to 90% less carbon emissions' impact than drinking from single-use plastic bottles



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

[1] 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. Alejadro 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_2e stands for kilogram CO_2 equivalent.



AUSTRALIA 1800 947 827

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