

Billi™



Key points for HTM.

Why the Billi boiling and chilled water systems helps to score high with HTM?

Systems self-calibrate to boiling point to ensure steam is not emitted and the system is vented, so risk of pressure build up is negated.

Splash-free boiling water delivery, with the use of inverter pump, the water from the boiling tank (necessary for the water to be at correct temperature for tea brewing) is delivered directly to the tap instantaneously (pipe length and pump speed set a point of installation), the pump speed is then reduced so greatly reduce the possibility of splashing as the water fills the cup from empty.

Fully insulated tap dispensers which ensures there is no scald risk from the taps and also the boiling and chilled water can be dispensed consecutively without reduced performance.

Heat generation from appliances in cupboards provides the perfect environment within which bacteria and infections breed. Billi's drinking water systems are designed to keep cupboards and surrounding areas free from heat. Not only is the heat all contained within the unit, the energy is re-used, ensuring the highest level of energy efficiency as well as safety.

Eliminate the need of keeping troublesome door vents clean and free from dust and germ build-up, by installing Billi's drinking water systems. Billi's unique technology ensures that cupboard door vents, fans and ventilation are not required.

Self-calibration

Splash-free

Insulation

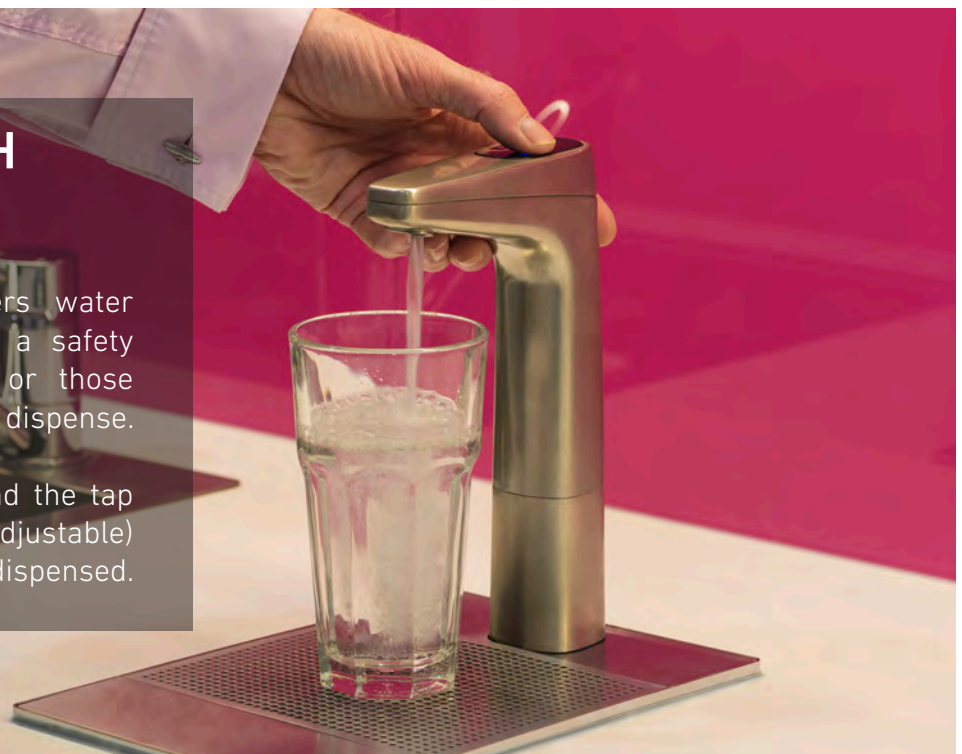
Waste-heat technology

Easy clean

PERSONAL HEALTH AND SAFETY

The boiling tap which delivers water at 98.5°C comes pre-set with a safety switch to safeguard children or those handicapped being able to dispense.

The lock has to be disabled and the tap operated within 8 seconds (adjustable) following, for water to be dispensed.





WATER

The flow rate of the Billi filtered water systems is set at a maximum of 2.7 litres per minute. The Billi Plus systems mixer tap is set at a maximum of 4.5 litres. Both significantly below the statutory requirement of less than 5.0 litres per minute.

Systems have in built pressure reducing valves to regulate flow rates into the system, and electronic control of flow through the system.

Billi taps can be programmed to perform a hygiene flush, for 2 minutes combatting legionella and preventing unwanted odours caused by dry taps.

In hands free mode, with the levers up or touch pad 'double click', systems have an automatic time out at 20 seconds (adjustable) for boiling side and 60 seconds (adjustable) for the chilled side, should taps be left running. Standard operation of the tap is by fingertip flow control holding the lever or touch pad, and on release the water flow ceases.

New advanced 5-stage filtration with Fibredyne™ technology which is certified to NSF Standards 53 and 42. Limescale control filtration is to the water to boiling side only, as this is a real challenge at 65oC+ ensuring greater life of the filters and also the taste of the chilled water is not affected.

Hygiene Flush

Safety Timeout

Filtration



PENTAIR FILTERS

Billi prides itself on offering world class water filtration products to the global market. Billi's filter range is tested to the strictest health standards and is certified by the globally recognised NSF public health & safety organisation which ensures the highest level of drinking water is available.

The relationship between Billi and Pentair commenced in 2013. With 40 years of history in purification and filtration solutions, Pentair's global footprint boasts an extraordinary \$8 billion turnover, 100+ manufacturing plants and 30,000 employees.

Offering the highest quality products in water filtration solutions on a global scale, Pentair supports its product through NSF certification, the strictest standards in health and safety ensuring Billi offers the safe drinking water.

Pentair's capabilities backed by product quality and experience is why Billi chose and continues to work closely with Pentair as a key partner in water filtration supply.



**\$8 billion
annual revenue**



**100 +
manufacturing facilities**



**30,000
employees**



**6
continents**

Billi's range of premium filters have been integrated with Pentair's unique Fibredyne™ technology. The Fibredyne™ technology has a three layered structure with each unique layer aiding in the water filtration process. The filter range provides superior water quality, consistent filter life and peace of mind even in any problematic water supply areas.

Fibredyne™ technology

Key Fibredyne technology:

- Turbidity reduction and life
- Chemical taste and odour reduction
- Three layers remove cysts with a very low pressure (unique to Pentair) - drop [2-5 psi] submicron filter only.

Benefits



FILTER SPECIFICATION

994001 SWING 5 MICRON FILTER

Taste and Odour Reduction
Particulate Reduction (reduces cloudiness)

Filtration reduces taste, odour and cloudiness enhancing water quality suitable for consumption.

Substance	Influent Challenge Concentration	Average Influent Concentration	Maximum Acceptable Value ϕ	Reduction Requirements	Average Effluent Concentration	Average Reduction
STANDARD 42 - AESTHETIC EFFECTS						
Chlorine	2.0 mg/L \pm 10%	2 mg/L	4 mg/L / 5 mg/L	\geq 90%	0.05 mg/L	94.2%
Particulate class III particles 5 to 15 μ m	at least 10,000 particles/mL	57,000/L		\geq 95%	47 mg/L	99.5%



Capacity
30,000 L
Pressure Requirements
120 - 1800 kPa or
17 - 145 psi
Temperature
2 - 40 deg.C or
36 - 104 F
Flow Rate
3.0 Lpm typical

* Tested using flow rate = 2.0 Lpm; pressure = 40 \pm 3 psig; pH = 7.5 \pm 0.5; temp. = 20 $^{\circ}$ \pm 3 $^{\circ}$ C

ϕ United States Environmental Protection Agency (USEPA) Safe Drinking Water Act / New Zealand Ministry of Health Drinking-water Standards for New Zealand

This system has been tested according to NSF/ANSI 42 for the reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42.

994002 SWING 0.2 MICRON FILTER

Taste and Odour Reduction
Particulate Reduction (reduces cloudiness)
Protozoa Removal (cyst removal)

Advanced filtration removes cysts and reduces taste, odour and cloudiness enhancing water quality for poor water quality supply.

Substance	Influent Challenge Concentration	Average Influent Concentration	Maximum Acceptable Value ϕ	Reduction Requirements	Average Effluent Concentration	Average Reduction
STANDARD 42 - AESTHETIC EFFECTS						
Chlorine	2.0 mg/L \pm 10%	2 mg/L	4 mg/L / 5 mg/L	\geq 90%	0.05 mg/L	97.2%
Particulate class III particles 0.5 to < 1 μ m	at least 10,000 particles/mL	9,100,000/L		\geq 95%	1769 mg/L	99.5%
STANDARD 53 - HEALTH EFFECTS						
Cyst	Minimum 50,000/L	2,100,000/L	99.9% / < 1/100 L	99.95%	15/L	99.99%



Capacity
30,000 L
Pressure Requirements
120 - 1800 kPa or
17 - 145 psi
Temperature
2 - 40 deg.C or
36 - 104 F
Flow Rate
3.0 Lpm typical

* Tested using flow rate = 2.0 Lpm; pressure = 40 \pm 3 psig; pH = 7.5 \pm 0.5; temp. = 20 $^{\circ}$ \pm 3 $^{\circ}$ C

ϕ United States Environmental Protection Agency (USEPA) Safe Drinking Water Act / New Zealand Ministry of Health Drinking-water Standards for New Zealand

This system has been tested according to NSF/ANSI 42 for 53 the reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI standards 42 and 53.

DISCLAIMER: Whilst every effort has been made to ensure that information contained in this document is accurate, Billi assumes no responsibility regarding its accuracy and does not accept any responsibility for any loss or other problem that may arise as a result of use of such information. All information contained in this document is of general information only and does not constitute any type of advice. Consequently, information contained in this document is only to be used as a general guide and you should not regard its contents as a substitute for professional advice. It is your responsibility to determine the correct filtration model and method of installation. Billi shall not be liable to you in any manner whatsoever for any damages, including without limitation, direct, indirect, consequential, compensatory, special, incidental or punitive damages, as a result of or in connection with reliance upon information contained in this document, including incorrect and/or insufficient filtration choice and/or installation. It is recommended that you seek further advice from local authorities and professionals.



Many Specifiers globally recommend Billi Taps, including Architects, Designers, Fit-out Contractors & M&E Consultants.

Billi units are installed in some of the most prestigious and famous workplace buildings. Billi are the tap of choice for landlords, property developers and blue chip companies in the UK, Europe, Middle East, Far East and Australasia.

The Billi units have been designed to offer outstanding energy, space, and time and money savings. It is a complete solution for locations where excellent/outstanding/platinum BREEAM, LEED or SKA ratings are being sought by the client.

Global presence

Billi™

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