Firewall® Tower Dispenser

with Firewall® UVC purification technology

The **Billi Firewall® Tower** incorporates the latest in hygiene technology and product surface protection, including **Firewall** and **BioCote®**, and delivers the safest water possible in the workplace.

FIREWALL® TECHNOLOGY

- ✓ UVC technology purifies the water for microbiologically safe water
- ✓ Firewall has been proven 99.999% effective against COVID-19
- ✓ The UVC technology acts all the way through to the point of dispense, eradicating germs just before water reaches the glass
- ✓ Renders waterborne bacteria incapable of reproduction and prevents back-contamination
- ✓ Drinking water is free from microorganisms such as coliform, salmonella, legionellae, pseudomonas and the hepatitis virus

Regular tap water

Firewall purified water

May contain:
- Bacteria
- Viruses
- Lead
- Cysts
- Chlorine
- Particulates

Free from:
- up to 99.9999% Bacteria
- up to 99.99% Viruses
- up to 99.9% Cysts

BIOCOTE® TECHNOLOGY

Key surfaces are integrated with BioCote®, a silver ion additive which prevents microbial growth on the suface of the products helping to reduce unpleasant odours, degradation of key surfaces and the potential for cross-contamination.

FIREWALL® IS PROVEN COVID-SECURE — INDEPENDENTLY TESTED

COVID SECURE

"Firewall safely purifies water up to 99.9999% bacteria free and 99.99% virus-free.

Firewall is tested and scientifically proven to be 99.999% effective in deactivating Covid-19 from drinking water."

Billi

Firewall® Tower

- ✓ Ideal for the health and aged care sectors
- ✓ Unique above the bench tower design
- ✓ The dispenser purifies the water up to 99.9999% bacteria free
- ✓ Function buttons, boiling nozzle, and drip tray float with BioCote® protection
- ✓ Connects with Billi's boiling and chilled Quadra range
- ✓ Can be retro-fitted to replace existing dispenser
- ✓ Versatile installation, no sink required
- ✓ Drip tray holds 350ml of water and can be easily removed to empty water reserve
- ✓ Caters for larger water bottles (up to 260mm size bottles)

FIREWALL® IS PROVEN COVID-SECURE
COVID SECURE
INDEPENDENTLY TESTED

Firewall® is 99.999% effective in deactivating SARS-CoV-2 (COVID-19)

Testing results from the University of Arizona carried out by Dr. Gerba and his team prove the effectiveness of Firewall against the human form of COVID-19.

Firewall put to the test against COVID-19

Waterlogic's patented Firewall technology has long been recognised for its ability to purify water up to 99.99% virus-free and 99.9999% bacteria-free. In fact, it's already the world's most highly certified purification technology.

Firewall was rigorously tested against the human form of COVID-19 by a team of microbiologists from the University of Arizona led by Dr. Gerba, internationally known for his methodologies for pathogen detection in water and food.

"I have tested the Waterlogic Firewall machine and can confirm it removes COVID-19."

Dr. Charles P. Gerba, Water & Energy Sustainable Technology (WEST) Center, University of Arizona

How Firewall was tested

The leading independent microbiology laboratory carried out tests on two Firewall units, each with one dose of the COVID strain spiked into the water.

To make the test water, approximately 100,000,000 colonies of virus in 1ml of virus stock was added to 1 litre of sterile dechlorinated tap water (bacteria-free and chlorine free) and mixed thoroughly. This solution was added to the water reservoir as influent water. For unit 1, the average virus concentration in the water reservoir was 186,000 colonies/ml. For Unit 2, the average virus concentration in the water reservoir was 310,000 colonies/ml. The tests were conducted with extremely high doses of the COVID pathogen to stress test Firewall's capabilities. To provide context, International government water bodies permit up to 100 non-pathogenic colonies per millilitre of drinking water but zero pathogenic content.

Three samples of Firewall treated water collected from the dispenser output were applied to cell culture plates and incubated for 1 hour at 37°C to allow the virus particles to adsorb the cells. A synthetic cell culture was added, and the plates were incubated and observed for a further 7 days. Once the incubation period was complete, samples were tested for concentration of COVID-19.

Outstanding results

Firewall treated water showed an average colony reduction of over 5 log (99.9998%). These results demonstrate that Firewall is effective in inactivating the human form of the COVID-19 strain with a reduction of over 99.999%.

The challenge test verification, sampling and analysis was conducted by ALS Water from 2nd Jan-30th Jan 2019 using NATA accredited methods according to their scope of accreditation (No. 992).
1) https://www.health.qld.gov.au/__data/assets/pdf_file/0030/444873/national-enhealth-guidelines.pdf
2) https://www.abc.net.au/news/2018-11-14/legionella-detected-hospitals-nursing-homes-queensland-tests/10494278

Tested and Certified

Firewall technology is certified by IAPMO R&T to **NSF/ANSI 55 Class A, NSF P231, US EPA Microbiological Guide Standard, NSF/ANSI 372 and CSA B4831.**

UPC WATER QUALITY PLATINUM SEAL ETL LISTED CE WaterMark

*certificate may vary depending on different models or products

Hands-free dispensing for maximum hygiene

The Billi Firewall® Tower features contactless dispensing. The hands-free functionality is activated by robust infra-red sensor technology. Clear instructions are provided on the machine, explaining how the motion sensors work, ensuring there is no cross-contamination between users.

Overview of Functions

Easy wipe aluminium control panel

BioCote® treated silicone buttons

Ease wipe surface

316 Stainless steel side panels
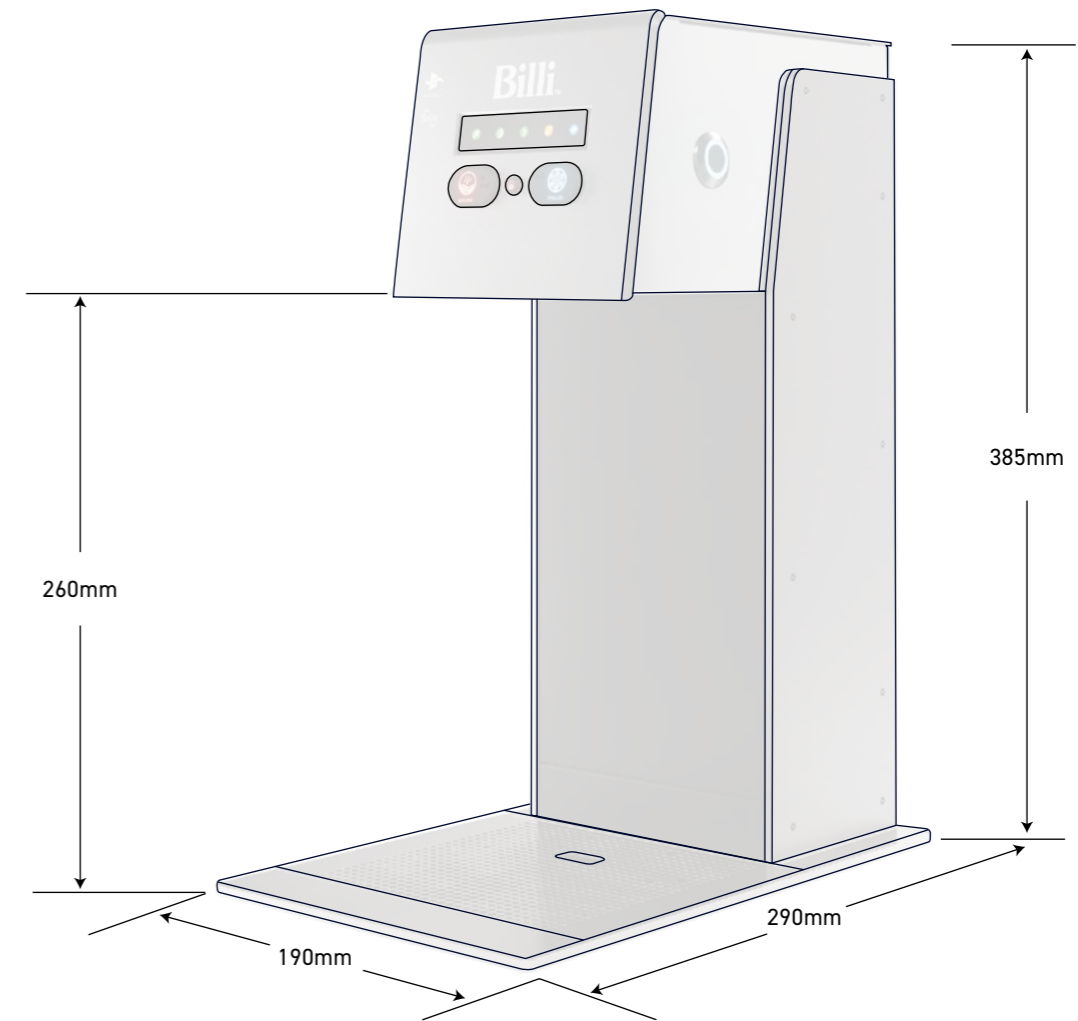
316 Stainless steel font

Menu Display and Icons

Boiling (red)
Icon flashes when heating up. Solid illumination when boiling water is ready to dispense. No illumination when in holiday or standby mode. Boiling water will not dispense if safety lock is activated (see below).

Chilled (blue)
Icon flashes when chilling. Solid illumination when chilled water is ready to dispense. No illumination when in holiday or standby mode. When chilled option is selected, Firewall will activate and icon will flash. Water will not dispense until Firewall icon is solid.

Safety Lock (red)
Safety button illuminates when active. To use boiling water, hold down safety button for 2 seconds until red icon disappears.

Leaf (green)
Eco intelligence.

Moon & Stars (green)
Icon flashes when in standby mode. Solid illumination when in holiday mode. Boiling and chilled icons will not be illuminated in these modes.

Lightning Bolt (green)
Time switch on.

Spanner (orange)
Icon flashes when replacement filter is required. Solid illumination when filter change is overdue.

Firewall®
Icon flashes blue while Firewall technology is activated. Solid illumination when Firewall is ready to dispense chilled water. Icon turns red when Firewall Tower is in fault mode.

Boiling & Chilled (yellow)
Boiling and chilled icons will flash yellow if the under bench unit goes into a fault mode.
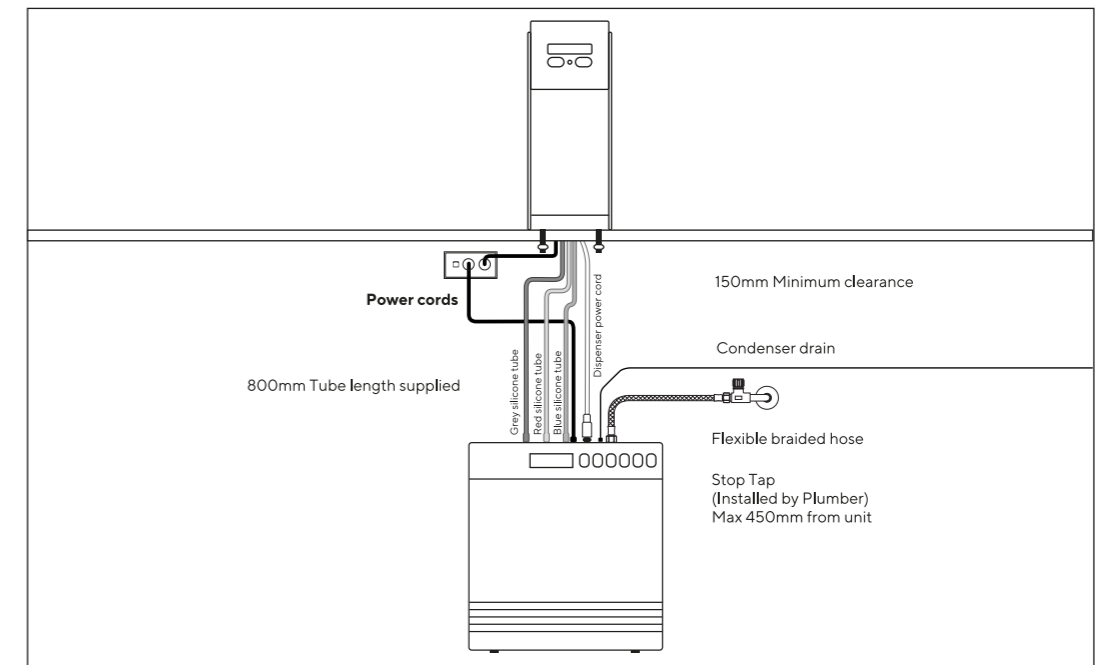
Product Dimensions

385mm

260mm

290mm

190mm

Installation Guide

For Quadra Units

150mm Minimum clearance

Power cords

Condenser drain

800mm Tube length supplied

Grey silicone tube
Red silicone tube
Blue silicone tube
Dispenser power cord

Flexible braided hose

Stop Tap
(Installed by Plumber)
Max 450mm from unit

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Firewall® Tower Dispenser

Available Models

	Product code	Model name	Suggested number of people	Boiling water delivery cups per hour*	Chilled water delivery cups per hour	Power supply (amps)
BOILING **CHILLED**	904010FTUK	Quadra Comapct	Up to 20	100	150	13
	904040FTUK	Quadra 440	Up to 40	150	175	13
	904060FTUK	Quadra 460	Up to 60	180	175	13
	904100FTUK	Quadra 4100	Up to 100	250	175	20
Dispenser Only**	MF_FXT_1C	Firewall Tower Dispenser	N/A	N/A	N/A	10
	P_FWFONT	Firewall Tower Font Assembly	N/A	N/A	N/A	N/A

* Based on the initial number of cups of boiling water immediately available, drawn one cup every 10 seconds. For all under bench filtered water systems, consideration may be needed for usage patterns and draw-off methods. 1 cup = 170ml.

** Dispenser can be retrofit to Quadra models.
For full installation requirements or to learn more, contact your Billi representative.

Billi™