



# **SMOKE AND ASH AFFECTED WATER**

WATER FILTRATION  
RECOMMENDATIONS

# OVERVIEW OF SMOKE AND ASH AFFECTED WATER

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With the widespread devastation of the current Australian bushfire disaster, there are many households with fire affected/contaminated water supplies. This article is designed to inform and assist consumers with their filtration options.

Ash or ashes are the solid remains of fire. In the case of large bushfires/wildfires water supplies, particularly tank & surface water supplies in the immediate area, are contaminated by ash and smoke; often this ash contamination also affects water supplies a long way away - for example New Zealand water tanks have been affected by Australian bushfires.

The possible contaminants include smoke, ash, debris, fire retardant, dead birds or animals and also metals & chemicals from burned substances. The presence of ash and debris in rainwater is unlikely to be a health risk but will likely affect the appearance and taste; however dead animals or birds in gutters or tanks are a health risk. Fire retardants currently used in Australia and New Zealand are of low toxicity, however your rainwater may not be suitable for consumption if you have been directly impacted. Rainwater contaminated by a bushfire needs to be treated on a case-by-case basis, due to the many unknowns created by a bushfire.

# WATER FILTRATION OPTIONS

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As smoke and ash create an unknown & variable quality of water, the larger the carbon filter installed the increased level of reduction of taste and odours. Installing both a whole house & an under sink option will give the best results for drinking water. Also the slower the water flows through the filter systems the better the removal levels.

## UNDERSINK SYSTEMS

**Option 1** PUREMIX-Z7 Reduction of ash & smoke for the cold water on your mixer tap.

**Option 2** HYBRID-M1 Reduction of ash & smoke plus bacteria protection for the cold water on your mixer tap.

## WHOLE HOUSE SYSTEMS

**Option 3** WH2-60 Reduction of ash & smoke for the whole house.

**Option 4** HYBRID-G13 Reduction of ash & smoke plus bacteria protection for the whole house.

To be 100% sure of the drinking suitability of your water supply we would recommend that the water in each case be tested by a certified laboratory before drinking, including testing for Arsenic and Chromium.



### Recommended laboratories

ALS Laboratories: <https://www.alsglobal.com/en-au/services-and-products/environmental/water-quality>

## OPTION 1 UNDERSINK SYSTEM

### PUREMIX-Z7

High Flow Inline Undersink Harsh Water Filter System

#### FEATURES & BENEFITS

- Z Plus Technology, this Z7 cartridge has the ability to inhibit bacterial growth.
- Provides pure, safe, filtered water, free of chlorine and harmful cysts. Reduces Trihalomethane (THM's)
- Sediment, dirt, rust and other particles filtered down to 1 micron including Giardia and Cryptosporidium cysts.
- No need for a separate filter tap.
- Quick and easy installation, ideal for stone benchtops. Mounts horizontally or vertically - no shelf cutouts required.



#### FILTRATION TECHNOLOGY



##### Stage 1

- Removes particles.
- Clarifies the water.
- Removes sediment, rust, sand, silt & algae.

##### Stage 2

- Reduces chlorine and other chemicals.
- Eliminates bad taste and odours.

##### Stage 3

- Antibacterial technology inhibits bacterial growth within the system, whilst the 1 micron\* rating offers protection from cysts such as Cryptosporidium and Giardia.

#### 10 YEAR WARRANTY\*

10 year warranty is 1 year parts and labour, plus 9 years parts only.

## OPTION 2 UNDERSINK SYSTEM WITH BACTERIA PROTECTION

### HYBRID-M1

Dual Stage Filtration + UV Protection

#### FEATURES & BENEFITS

- Connects quickly and easily to any mixer tap.
- Turns your rainwater into pure, safe, delicious and healthy drinking water!
- Specifically designed to kill harmful microorganisms in untreated water supplies.
- Uses Puretec Radfire ultraviolet technology to kill 99.9% of bacteria - eco-friendly and does not use chemicals.
- Moulded carbon cartridge removes bad tastes and odour such as chlorine, whilst Silver Plus Technology prevents bacterial growth.

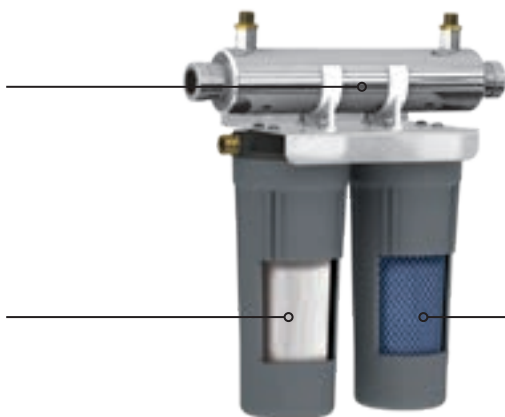


#### FILTRATION TECHNOLOGY

##### Ultraviolet Protection

Kills 99.9% of bacteria with Radfire™ ultraviolet technology, a natural purification process that's completely eco-friendly and chemical-free.

A washable, pleated sediment cartridge removes sediment down to 5 microns. With high dirt holding capacity, the cartridge removes sediment, scale and rust.



Moulded carbon cartridge that removes bad taste and odour. Incorporates Silver Plus Technology that prevents bacteria build up in the system.

#### 3 YEAR WARRANTY\*

3 year warranty is 1 year parts and labour, plus 2 years parts only.

## OPTION 3 WHOLE HOUSE FILTRATION

### WH2-60

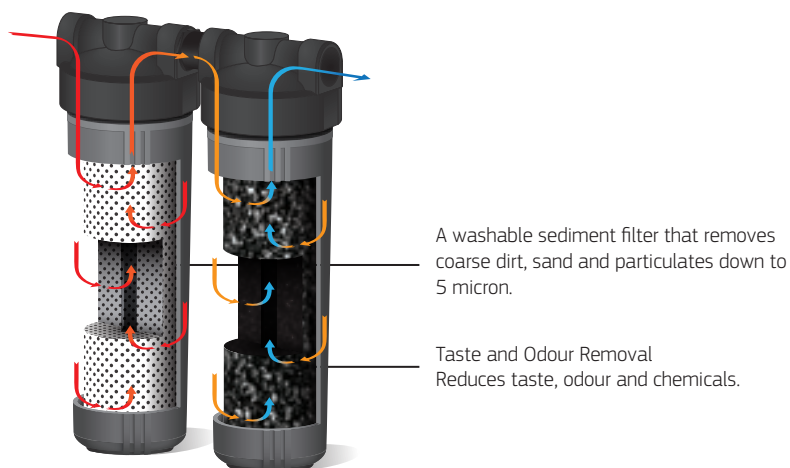
Dual Water Filter System

#### FEATURES & BENEFITS

- Easy to install.
- Large capacity for carbon cartridge.
- Removes sediment, chlorine, taste & odour reduction.
- Dual stage which means longer cartridge life.
- Excellent
- Peace of mind with whole house filtration.
- No moving parts.
- No chemicals.
- Low maintenance.
- Protects and prolongs life of appliances.
- No power required.



#### FILTRATION TECHNOLOGY



#### 10 YEAR WARRANTY\*

10 year warranty is 1 year parts and labour, plus 9 years parts only.

## OPTION 4 WHOLE HOUSE FILTRATION WITH BACTERIA PROTECTION

### HYBRID-G13

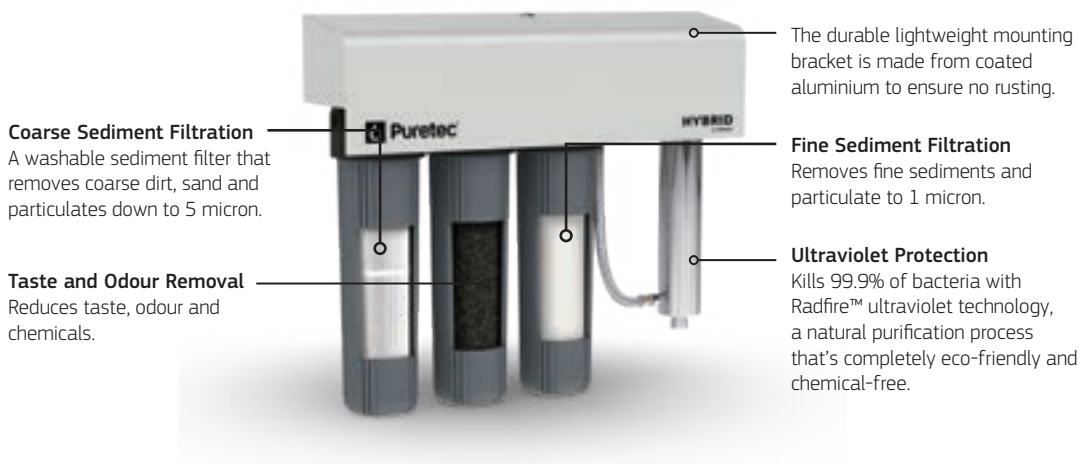
Triple Stage Filtration + UV Protection

#### FEATURES & BENEFITS

- Filtration and ultraviolet all-in-one unit.
- Quick and easy plug-and-play installation.
- Kills 99.9% of E. coli, Giardia and Cryptosporidium cysts with Radfire ultraviolet technology, a natural purification process that's complete eco-friendly and chemical-free.
- Turns your tank and mains water into pure, safe, delicious drinking water.
- Designed for harsh climate.
- High strength aluminium bracket for durability.
- Equipped with a lamp count-down timer and failure alarm (audible & visible).
- Anti-corrosion construction.
- Anti-tamper & child-proof lockable lid.
- Hinged lid for easy access for lamp change.



#### FILTRATION TECHNOLOGY



#### 3 YEAR WARRANTY\*

3 year warranty is 1 year parts and labour, plus 2 years parts only.

## SUPPLEMENTARY INFORMATION

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### RECOMMENDED LABORATORIES

ALS Laboratories: <https://www.alsglobal.com/en-au/services-and-products/environmental/water-quality>

### USEFUL REFERENCES

<https://www.health.nsw.gov.au/environment/water/Pages/rainwater-bushfires.aspx>

<https://www.stockandland.com.au/story/6569826/is-smoke-tainted-water-safe-to-drink/>