

AQUA CONTAMINATED WATER DIVERTER - MANUAL

Also known as the First Flush Diverter. Ensures your tank water is kept pure and free of sludge and debris.

DESCRIPTION

- The Contaminated Water Diverter (CWD) is a manual pre-tank filter – a first flush diverter

WHY DO I NEED IT?

- Over time a house's guttering accumulates a lot of debris – dirt, leaf material, loose bird faecal matter etc. – when it rains that is all washed into your water tank.
- The Manual Contaminated Water Diverter Tank system prevents this material entering and contaminating your water tank by temporarily disconnecting the roof from your water tank. The contaminated water is siphoned off and goes to waste.
- It makes sense to prevent debris getting into your water tank – it saves on cleaning and maintenance, and means quality water from any tap in your home.

HOW DOES THE CWD WORK?

- There are two ways water gets from the roof of your house to your water tank. The first is a siphon system – the pipe work goes below ground then up into your water tank. The second is a direct system – the guttering pipe work runs from the roof overhead and straight into your water tank.
- The CWD can be connected to any water tank system preventing all those “gutter nasties” from getting into your drinking water. It can even be adapted to fit underground water tanks.
- In simple terms, when the CWD is in “flush mode”, the head of water between the water tank and the in-line filter, rushes down the downpipe. This rinses the in-line filter and drops all dirt and debris into the bottom of the sediment tank. This is then vacuumed out to waste by opening a slide valve.
- It's simple, it saves on maintenance and cleaning and it gives great tasting water, making contaminated water a thing of the past.



*Image is indicative only,

FEATURES

- Manual open & close function (great when cleaning the roof).
- Self-rinsing in-line filter.
- Maintain with ease and upkeep is minimal.
- Can be fitted to both Syhpon and Direct set ups, above or below ground water tanks.



SPECIFICATIONS

Model (Code)	Contaminated Water Diverter - Manual (CWD-M)**
Dimensions	55cm W x 50cm D x 1.27m H for Sediment Tank + Manual Contaminated Water Diverter
Variation	In-Line Filter Sock - Standard Micron of 200, however, can be redesigned to suit conditions

CAUTION: Protect against freezing to prevent cracking of the filter and water leakage. **The Manual Contaminated Water Diverter Tank System does not contain the CWD and CWD Controller Unit.

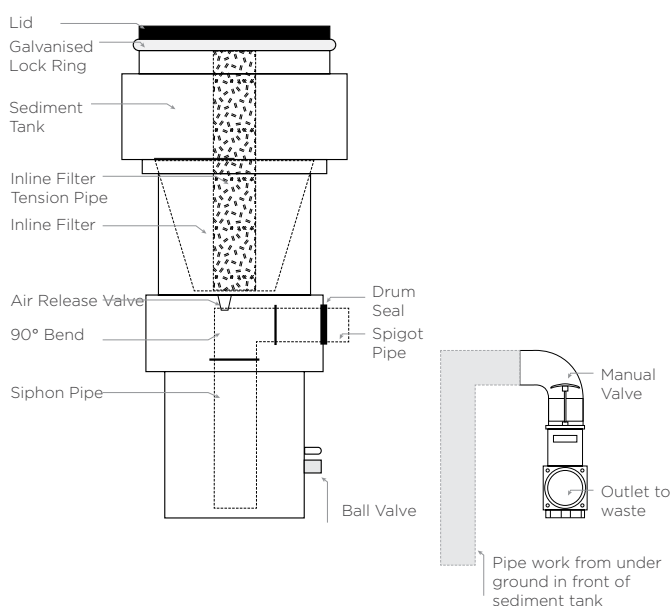
MAINTENANCE

The Manual Diverter Tank system has very little maintenance to carry out on an annual basis.

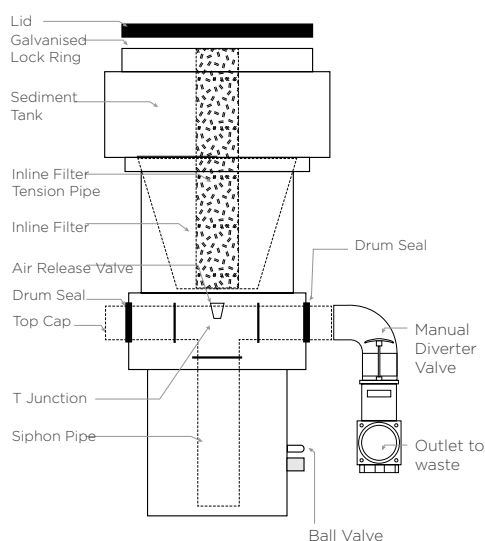
The In-Line filter will need to be cleaned once every six months to ensure no sediment seeps through the In-Line filter.

During the Pine Pollen season you will need to clean your In-Line Filter Sock at least once a month.

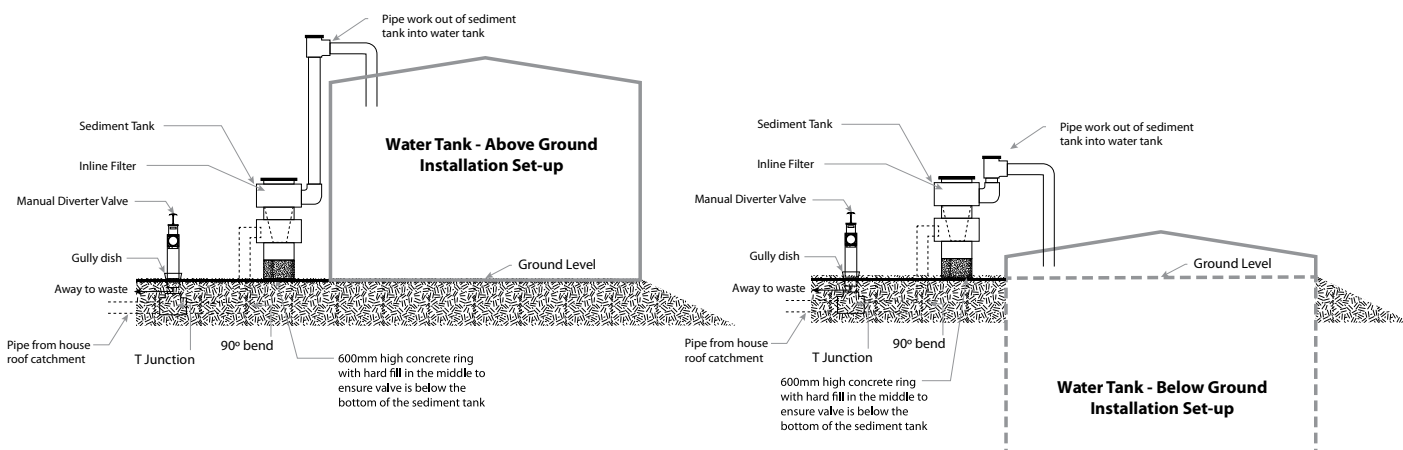
SEDIMENT TANK ASSEMBLY DIAGRAM FOR SIPHON SYSTEM



SEDIMENT TANK ASSEMBLY DIAGRAM FOR DIRECT FEED SYSTEM



TYPICAL INSTALLATION SET-UP'S FOR THE CWD-M



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AQUA CONTAMINATED WATER DIVERTER - AUTOMATIC

The only computerised first flush diverter on the market. Ensures your tank water is kept pure and free of sludge and debris.

DESCRIPTION

- The Contaminated Water Diverter (CWD) is a computerised pre-tank filter – the only computerised first flush diverter on the market today that we are aware of. Also comes in a manual (i.e. non-computerised) model.

WHY DO I NEED IT?

- Over time a house's guttering accumulates a lot of debris – dirt, leaf material, loose bird faecal matter etc. – when it rains that is all washed into your water tank.
- The Complete Contaminated Water Diverter Tank system prevents this material entering and contaminating your water tank by temporarily disconnecting the roof from your water tank. The contaminated water is siphoned off and goes to waste.
- It makes sense to prevent debris getting into your water tank – it saves on cleaning and maintenance, and means quality water from any tap in your home.

HOW DOES THE CWD WORK?

- There are two ways water gets from the roof of your house to your water tank. The first is a siphon system – the pipe work goes below ground then up into your water tank. The second is a direct system – the guttering pipe work runs from the roof overhead and straight into your water tank.
- The CWD can be connected to any water tank system preventing all those “gutter nasties” from getting into your drinking water. It can even be adapted to fit underground water tanks.
- In simple terms, when the CWD is in “flush mode”, the head of water between the water tank and the in-line filter, rushes down the downpipe. This rinses the in-line filter and drops all dirt and debris into the bottom of the sediment tank. This is then vacuumed out to waste by the CWD controller through a siphon pipe.
- It's simple, it's automatic, it saves on maintenance and cleaning and it gives great tasting water, making contaminated water a thing of the past.



*Image is indicative only, representing cross section of CWD-A (Automatic)

FEATURES

- Battery backup for power outages.
- Manual open & close function (great when cleaning the roof).
- Customisable programming – control interval timings between flushes.
- “Dry mode” for a complete manual flush when not triggered by rainfall.
- Self-rinsing in-line filter.
- The valve and actuator motor are 12v and CE Certified.
- Electricals are housed in aluminium and stainless steel components.
- Maintain with ease and upkeep is minimal.
- Can be fitted to both Syhpon and Direct set ups, above or below ground water tanks.



SPECIFICATIONS

Model (Code)	Contaminated Water Diverter - Automatic (CWD-A)	Contaminated Water Diverter - Manual (CWD-M)**
Dimensions	55cm W x 50cm D x 1.27m H for Sediment Tank. 24cm W x 80cm H for the Contaminated Water Diverter	55cm W x 50cm D x 1.27m H for Sediment Tank + Manual Contaminated Water Diverter
Variation	In-Line Filter Sock – Standard Micron of 200, however, can be redesigned to suit conditions	In-Line Filter Sock – Standard Micron of 200, however, can be redesigned to suit conditions

CAUTION: Protect against freezing to prevent cracking of the filter and water leakage.

**The Manual Contaminated Water Diverter Tank System does not contain the CWD and CWD Controller Unit.

CWD CONTROLLER SPECIFICATIONS

Model: DC-T1
PCB: Rev. B
Software: V2.1

Environment:

Recommended Operating Conditions: 0 to +40°C

Storage Conditions: -10 to +50°C

Transport Conditions: -10 to +50°C

Mechanical:

Dimensions: 270mm(L) x 140mm(W) x 72mm(H)

Weight: 3.62kg

Case: Aluminium Extrusion

Electrical:

Input Power: 100-240VAC, -50-60Hz, Class II

Max. input current 0.35A

Output Power: 9-15VDC

Max. output current 5A

Fuse: 5A SMD mounted on PCB

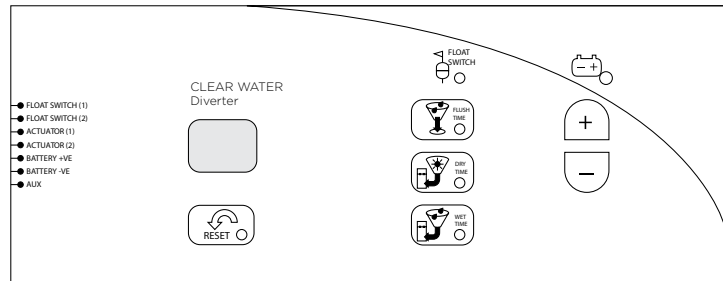
Internal Battery: Low maintenance lead-acid battery type, VRLA, 12V

Recommended battery capacity, 3-12Ah

Typical run time on backup battery power, 7 days

Display: Green two digit 7-Segment LED

Indicators: Green and Red LED



CONTROL EXAMPLES



= 48Hrs



= 5Days



= This symbol indicates the flush valve has been triggered by the dry timer.



= This symbol indicates the flush valve has been triggered by the wet timer.

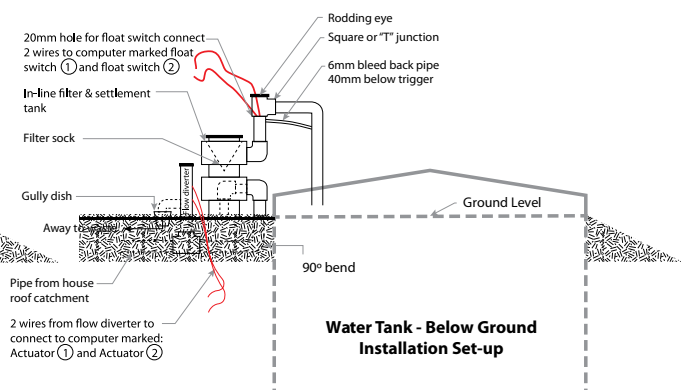
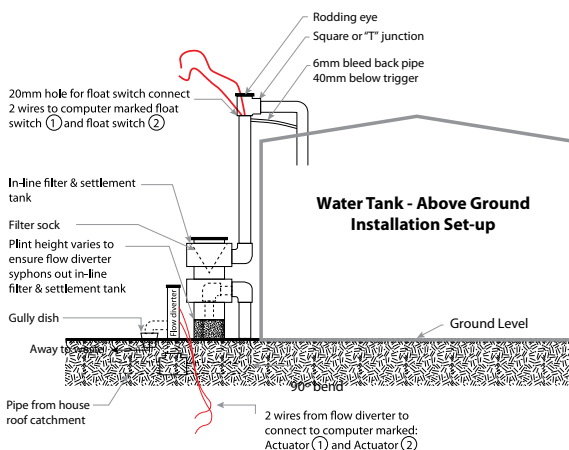


= This symbol indicates a dry collection surface



= This symbol indicates a wet collection surface and water will be collected after the flush time has elapsed.

TYPICAL INSTALLATION SET-UP'S FOR THE CWD-A



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