



CRYSTAL WATER

Installation Guide
CW-A2009 H105 Filtration System



Features

- Easily Installed with the use of an Arco Conekta Mini Stop Water Diverter
- Can be easily connected to an existing Flick Mixer Tap (other fittings may be required) or the Standard Tap provided.
- Filters Standard Municipal Water Supplies
- Automatically Shuts off Water when a Leak is Detected
- Runs on a 9V Alkaline Battery (same battery that is in smoke detectors)
- Automatically Shuts off when The Battery Power is Low

Specifications

Everclear H105 Filter System

- Capacity: 3,785 Litres
- Filter Life Span: 12 Months
- Cartridge Length: 14.5"
- Flow Rate: 0.5 Gallons per minute
- Certifications: NSF 42, NSF 53, SGS, WQA Gold Seal

Water Filter Monitor & Leak Detector

- Operating Voltage: 9VDC
- Supply Current: Typical 1mA, Maximum 15mA
- Cable Length: 1.5m for Solenoid Valve
- Connection: ½" BSP Male & Female Thread
- Water Leak Detection Method: Control Unit with Metal Detecting Plates to be put on the floor near the water filter
- Environment Temperature: -20 ~ 90°C
- Maximum Pressure: 6000 kpa

Basic Installation Instructions

Tools Needed for Installation:

- Phillips Screwdriver
- 12mm Drill Bit and Drill
- Wrench
- Utility Knife
- Measuring Tape
- Pencil

1. OPEN CARTON & Inspect Parts

Installation Parts

Key	Description	Part No.
1	QL1 Filter Head	101
2	Filter Cartridge	(Varies)
3	Water Diverter	1120105
4	Tubing ¼" LLDPE	CW-P1000-01
5	½" Thread to ¼" Fitting	CW-P91009-02
6	7/16" Thread to ¼" Fitting	CW-A1009-05
7	PLV Check Valve	CW-P1830-C
8	Leak Detector & Filter Monitor	CW-B9041-BR
9	Faucet	CW-A8001



Mounting Hardware not included

2. Verify Undersink Mounting Location

Measure 20" (500mm) from the base of the cabinet and mark the mounting location for the top of the filter head. Make sure the chosen location offers easy access for future cartridge changes.

3. Mount Filter Head Under Sink

Mount Filter Head on the Cabinet using appropriate screws and washers. **DO NOT TIGHTEN** Until the Installation is complete.

4. Attach Inlet Water Supply

- Locate and Close the Cold-Water Angle Stop Valve Under your kitchen sink. Open the Cold-Water line on your existing Tap to release the water pressure.
- Unscrew and disconnect the braided tubing on the threaded end of the Angle Stop Valve.

- c. Attach the Solenoid Valve to the Arco Mini Stop Valve. Attach the ½" Push-fit Fitting to the End of the Solenoid Valve.
- d. Attach the Arco Conekta Mini Stop Valve to the existing Cold-Water Angle Stop Valve.
- e. Attach the Braided tubing to the top of the Arco Conekta Mini Stop Valve.
- f. Close the Side Valve on the Arco Conekta Mini Stop Valve and open the Cold-Water Angle Stop Valve to return water service to the Kitchen Sink. **Check for Leaks.**
- g. Measure length of tubing needed to connect the Diverted water to the Inlet of the Filter head. Allow adequate tubing to avoid sharp turns.
- h. Cut at a 90-Degree angle using a sharp knife.
- i. Attach one end of the tubing to the Water Diverter Fitting.
- j. Measure approximately 30-50mm away from the Water Diverter Fitting along the tubing.
- k. Cut at a 90-Degree angle using a sharp knife.
- l. Attach the Water Diverter Tube to the Bottom of the PLV Check Valve and the Remaining Tube to both the outlet of the PLV Check Valve and the Inlet of the Filter Head.

5. Install Supplied Tap

- a. Place Chrome Cover Plate on top of the counter for the placement of the Tap.
- b. Mark on the counter for drilling the hole for the tap. Ensure there is adequate room both on top and underneath the counter/sink top for the locking nut, round plate and push fit fitting installation.
- c. Drill hole into the counter/sink top for the shaft of the Tap to go through. Clean any potential burrs or knicks around the hole.
- d. Place the small rubber Washer, Chrome Cover plate and large Rubber Washer (in that order) on the shaft of the faucet. Insert shaft into the hole on the counter/sink top.
- e. Place Round Plastic Plate and Locking Washer on under the counter/sink side of the faucet shaft. Tighten with the Locking Nut supplied on the shaft and ensure the tap handle is pointing in the desired direction.
- f. Attach the remaining Push-fit fitting onto the bottom of the shaft of the tap. Tighten to ensure the internal seal is on the base of the tap.

6. Attach Filtered Water to Sink Tap

Measure length of tubing needed to connect the Outlet of the Filter Head to the Tap connector fitting. Cut and insert each end of the tubing into the fittings.

7. Water Diverter Battery Installation

- a. Slide off the Battery Cover on the right side of the Control Box. Install the 9V Alkaline Battery into the Control Box connecting it to the Supplied Cables. PLEASE NOTE: The System should only be powered by a 9V **ALKALINE BATTERY**. Other Batteries may not activate the functionality of the Solenoid Valve.

- b. After the Battery is installed, the Control Box will generate a long “BEEP” sound and all the light turns on for 3 Seconds. The Filter Light will Blink Several Times to Indicate the Elapsed Time. The Filter Monitor is now in Operation Mode.
- c. The Table below is a reference for the number of Light Blinks and remaining days until the Filters need to be replaced:

1 Time	90 Days
2 Times	180 Days
3 Times	270 Days
4 Times	360 Days

d. Final Check

Check over all fittings and connections to ensure a tight and sealed fitment. Tighten the Mounting Screws on the filter head. Install the filter into the filter head. The filter is a ¼ turn. Once Complete, Open the Tap, then SLOWLY open the Water Diverter Valve and Run the water for approximately 30 – 45 seconds. Check for Leaks.

Filter Monitor & Leak Detector Instructions

1. Checking Filter Life

Pressing the Button on the Control Box will illuminate the Filter Life Indicator. The Light will turn on for 3 seconds to indicate the Filter Life Status:

Colour	Remaining Days
■	> 14 Days
■	1 – 14 Days
■	=< 0 Days

2. Near End-of Life Filter Alert

The Control Box will generate 5 “BEEP-BEEP” sounds and blink orange every 15 Minutes to notify users when the filter life is less than 14 days.

Pressing the Check/Reset Button will terminate the “BEEP-BEEP” sound alert for 2 days. The Control Box will resume the alert after 2 days.

3. End-of Life Filter Alert

The Control Box will generate 5 “BEEP-BEEP-BEEP” sounds and blink red every 15 Minutes to notify users when the filter life is less than 0 days.

Pressing the Check/Reset Button will terminate the “BEEP-BEEP” sound alert for 2 days. The Control Box will resume the alert after 2 days.

4. Resetting the Filter Monitor

Please Call Crystal Water on [+61 8 6244 1300](tel:+61862441300) to arrange a Filter Service and to reset the Filter Monitor and Leak Detector (The Red light will blink and the unit will generate the alarm every 15 minutes).

5. Water Leak Detection Alert

The Control Box shuts the active Solenoid Valve to shut off the inlet of the Water Filtration System to stop Water Flow and generates an acoustic signal, “BEEP-BEEP,” and blinks the blue light continuously to notify users a Water Leak has been detected.

6. Reset Water Leak Alert

Press the Check/Reset Button on the Control Box to terminate the acoustic signal. Please Call Crystal Water on [+61 8 6244 1300](tel:+61862441300) to arrange a callout for the Leak inspection and to reset the Filter Monitor and Leak.

7. Low Power Alert

When the battery power is low, the Control Box shut the active Solenoid Valve, blinks a Yellow Light and generates a “BEEP,” sound every 2 seconds to notify the user of a low battery. Replacing with a new 9V **ALKALINE** Battery will release the alert and turn on the Solenoid Valve.

Commissioning Checklist

- Water Diverter Installed onto Cold Line Water Supply.
- Solenoid Valve is installed on Water Diverter.
- ½" Thread to ¼" Tube Fitting Installed onto Solenoid Valve.
- In-line PLV Check Valve Installed before Filtration System.
- Control Box is on the floor near the Water Filtration System
- Battery if fitted to Control Box
- Inlet and outlet connections are properly fitted and well secured (if applicable)
- Tap Fitting Installed onto Threading
- Water has been run for at least 20 seconds before use.

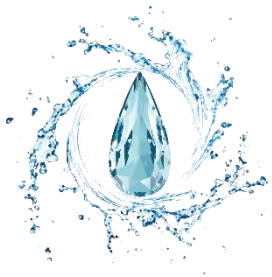
If any difficulties arise contact Crystal Water: Phone [+61 8 6244 1300](tel:+61862441300).

For information on our Filtration and Service Contracts please contact Crystal Water Customer Service on [+61 8 6244 1300](tel:+61862441300) or service@crystalwaterperth.com.au.

Warnings

For continued safety of this appliance it must be installed, operated and maintained in accordance with the manufacturer's instructions. For correct operation of this appliance, it is essential to observe the instructions as outlined in this booklet.

- Your unit should be installed by a suitably qualified tradesperson.
- For correct operation of this unit it is essential to observe the instructions as outlined in this booklet.
- Do not use this unit with water that is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Use this unit only as directed in these instructions and relevant Crystal Water User Guides and only for its designed purpose.
- Do not install unit if power cord is damaged.
- This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the unit.
- This unit is designed for indoor installation only and must not be exposed to direct sunlight, rain and excessive heat, cold, damp or dust.
- Do not store solvents or corrosive chemicals or other flammable items on or around this Unit.
- Any service or unit repairs must be performed by a trained and suitably qualified Technician.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Packaging material including plastic bags must be kept out of reach of children and disposed of according to local regulations.



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