

**RainWorx®**  
**OWNERS MANUAL & INSTALLATION**  
**For Servicing Enquiries Phone APD 09 263 7741**



## RainWorx®

**Congratulations on the purchase of an APD RainWorx Rain Harvesting System.**

**For your convenience all our RainWorx wall mounted systems come pre-assembled and leak tested. This provides an easy plug and play installation process that ensures you have a dependable solution for your rainwater harvesting needs.**

**Please familiarize yourself with this information and installation document before beginning installation.**

**Caution:** All Plumbing & Electrical work during installation should be carried out and tested by licenced trades people.

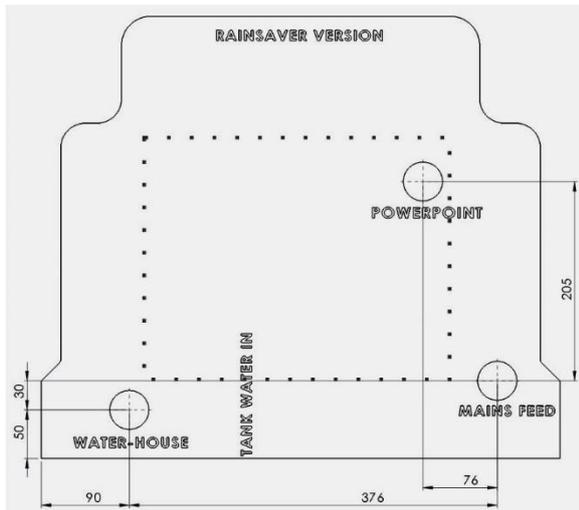
**Servicing:** All Servicing of the RainWorx® system should be carried out by qualified technicians please phone APD Ltd on 09 263 7741

If problems or questions arise during installation, please call our friendly customer service team on 09 263 7741.

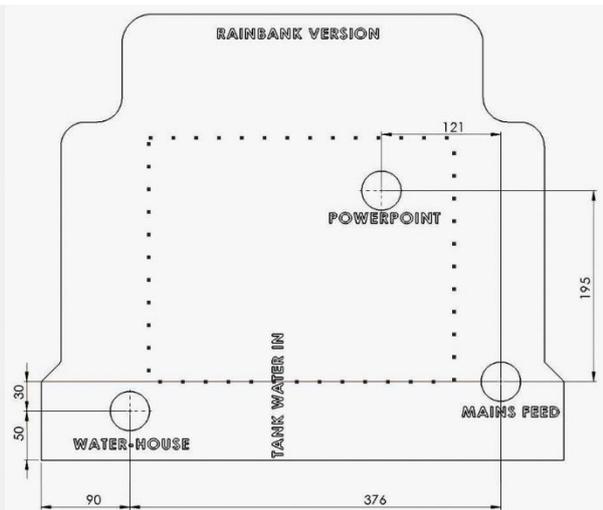
## Installation

### Part 1: Pre-plumbing

Whites Rainsaver Template



Davey Rainbank Template

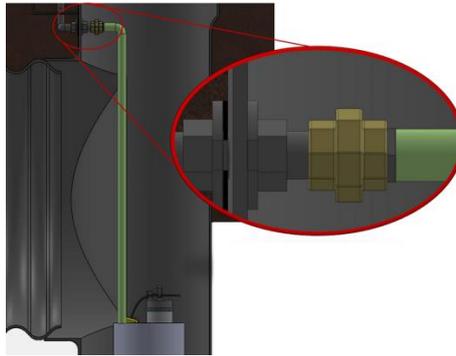


\*\* Screw locations should be kept within the dotted area above when fixing to wall.

- Use templates above to identify where to position plumbing connections for mains water in, water out to house and power point.
- Ensure the positioning of the cabinet is high enough from the ground to allow access to all connections for installation and servicing. The power point connection must be at least 400mm above finished ground level.
- Ensure all penetrations to the exterior of the house are in accordance with the building code.
- Direct power and water supply within the property to meet the cabinet holes.

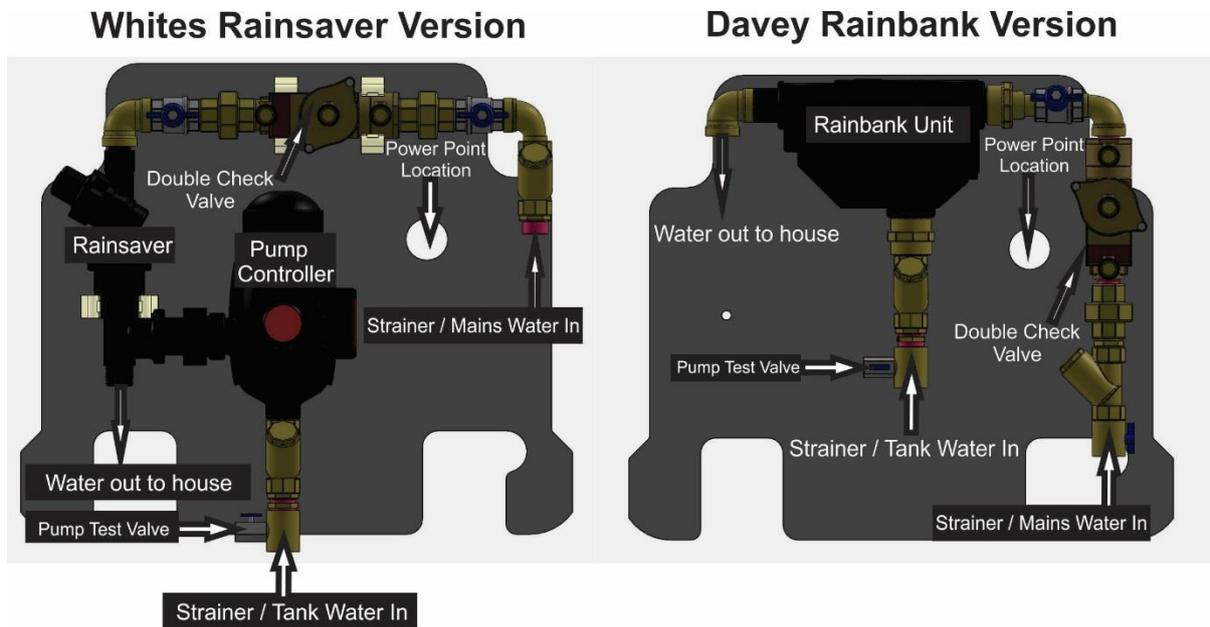
**Note** - A template backing board can be supplied for matching the plumbing and power to the connections of the cabinet.

## Part 2: Installing Pump into APD StormLite underground tank that has been pre fitted with internal pipework and pump platform.



1. Remove the tank lid to gain access to the inside of the tank chamber.
2. Undo the union fitting shown in the picture above and remove the hose with non-return valve from the tank. Be careful not to lose the washer inside the union fitting.
3. Connect the non-return valve at the base of the hose to the pump outlet.
4. Using the rope provided, lower the pump down into the tank so it sits correctly inside the pump platform.
5. Re-connect the hose to the union fitting inside the tank.
6. Locate the plug on the end of the pumps power cable and remove it or cut it off.  
**\*\*Warning – Do not cut off plug if it is connected to power\*\***
7. Locate the cable gland next to the union fitting on the inside of the tank and pull the pump cable through from the inside to the outside of the tank. You may need to dig out some soil / backfill around the riser to gain access to the fittings.  
**Note – Pump cable may need to be extended if the distance between the tank and RainWorx cabinet is longer than the cable.**
8. Pull through any slack from the power cable, tighten cable gland.
9. Check the float switch cable on the pump is not obstructed and can move freely
10. Dig required trench according to building code standards, between tank and RainWorx cabinet location, to allow for power cable and water pipe to be run.
11. Connect water pipe (25mm Recommended) to 25mm tank fitting and run the pipe through the trench to the RainWorx cabinet location. Bring power cable through to the same location and fit a new plug. Ensure the power cable is protected in accordance with the building code.
12. Backfill trench.

## 13. Part 3: Fit preassembled cabinet



1. Separate the backing board assembly from the RainWorx cover.
2. Position the backing board on the wall to ensure it lines up with the plumbing and electrical connections.
3. Screw the backing board to the wall using SS M6 or at least 10g screws suitable for timber or concrete. Position the screws in the middle of the backing board to keep the edges of the backing board from being pulled out of shape, as this can cause issues when sliding the cover on and off. Refer to template drawing in Part 1.
4. Connect all plumbing connections as per the diagrams above:
  - 1) Mains water feed in.
  - 2) Water from tank.
  - 3) Water to house.
5. Arrange to have the double check valve tested and certified as per council requirements.
6. Have an electrician install an outdoor rated power point in the location on the backing board.
7. Plug the power lead from pump to the Whites Pump Controller or Davey Rainbank.
8. Plug the power lead from the Whites Pump Controller or Davey Rainbank into the power point the electrician has installed.

## Part 4: Switching on

1. Turn on mains water supply to house.
2. Ensure both isolation valves on either side of the double check valve are in the open position.
3. Switch the power point to the on position.
4. Check the controller is working correctly:  
Whites pump controller version: Press pump reset to start pump, check there is no failure light.  
Davey Rainbank version: Check status indicator, press manual override to check pump is running.
5. Check the pump is operational:  
Open the pump test valve to check if water pressure is present. If not press Pump Reset (Whites) or Manual Override (Davey)

If there is no water pressure coming through or there is a failure light, please refer to the troubleshooting guide.

6. If everything is in working order then replace the cabinet cover by sliding from top down.

## Troubleshooting

- **Mains water flow not available or low when pump is switched off or not operating**
  - Check mains water isolation valves are open
  - Undo the cap on the mains water strainer and check for blockages (Turn off mains water first)
- **Pump not working or low flow**
  - Check there is power to the Pump Controller or Rainbank
  - Check there is sufficient water in tank for the pump float switch to be in the up position.
  - Press pump reset (Whites) or Pump override (Davey)
  - Check the tank water strainer inside the cabinet for any blockages
- **Pump running continuously or intermittently when water not being used.**
  - Check for any leaks in the plumbing.
  - Check the power from the pump is plugged into the Pump Controller or Rainbank and not directly into the power point.
  - Manual override button (Davey) or Pump Reset Button (Whites) is blocked. Please press it several times
- **Pump is pumping discoloured / dirty water**
  - Check the water inside the tank for debris or discolouration, if necessary have the tank water emptied and the tank cleaned.
  - Check the roof, gutters or any other area where the water is being collected for possible contamination.

If you can't resolve your issue with the troubleshooting guide above please phone APD on 09 263 7741



**Do not attempt to open the Whites Pump Controller or Davey Rainbank as there are exposed LIVE 230/240v Electrical connections inside.**

# Maintenance Instructions

## Every 12 months

To be carried out by a qualified service person:

- Clean any dirt or debris from the RainWorx cabinet components.
- Ensure water is flowing freely through the RainWorx cabinet components.
- Clean both strainers inside RainWorx cabinet.
- Test and certify the double check valve is in full working order.
- Check inside water tank for debris and clean out if necessary.
- Check and clean leaf eaters / first flusher diverters if installed on spouting.

## Warranties and assurances

The RainWorx® cabinet and componentry is covered under warranty for 2 years

Whites Rainsaver Version: Bianco B42A Pump has a 3 year Warranty

Davey Rainbank Version: Davey D42A/B Pump has a 2 year Warranty

We offer a reminder service to help keep you up to date with your maintenance schedule. To find out more please contact our friendly customer service team on 09 263 7741.

