

Rainwell Soilsoaker Assembly & Installation Instructions

Overview

The Rainwell Soilsoaker is a DIY assembly requiring a Rainwell RFD, PVC stormwater and irrigation components, common tools, and materials.

These instructions are for assembling a Rainwell Soilsoaker with 1470mm water towers and installation to a 90mm round downpipe, which requires a wall area of 2250mm (h) x 340mm (w) to install.

Customised Heights: To increase or decrease the Rainwell Soilsoaker's height you must determine a height measurement from ground level and subtract 770mm to calculate the length of the water towers.

Components

1. Rainwell RFD

90mm PVC Stormwater material:

2. Access Tee F/F x 1
3. 90° Elbow M/F x 4
4. PVC pipe x 3m (water towers)
5. Downpipe Brackets x 2/4
6. Coupling Access F x 2
7. Threaded Access Cap x 2

20mm PVC Irrigation fittings:

8. Barbed Tank Outlet x 2
9. Threaded Ball Valve F x 2
10. Threaded Hose Tail M x 2

Thread/connection: M = Male F = Female

Tools

- **Hacksaw** - metal downpipe.
- **Wood Saw** - PVC components
- **Masonry Drill** - downpipe brackets to solid walls.
- **28mm Spade / Hole Saw** - PVC access cap hole.

Materials

- **Solvent Cement** - PVC pipe joins.
- **Methylated spirits** - clean PVC joins.
- **Rust prevention paint** - metal downpipe.
- **Paint** - colour the Soilsoaker (optional).

Downpipe preparation

- **Rainwell RFD downpipe position** - from ground level, mark 1855mm and 325mm above the first mark.
- ~ **Customised heights** - add 385mm to the water towers height to create mark and 325mm above the first mark.
- Horizontally cut marks to remove the downpipe section. Clean burrs and apply rust prevention paint to exposed metal.

Fitting the Rainwell RFD to the downpipe

If the downpipe is against the wall, you have the option to use the 4 screws at the back of the Rainwell RFD to fit the mounting brackets, marked: 'T' - top and 'B' - bottom.

- Lift the Rainwell RFD lid and remove the filter assembly
- Slide the Rainwell RFD into the upper portion of the downpipe to drop the downpipe flange into the lower portion, refit filter assembly
- Fix the Rainwell RFD using the wall mounting brackets, or secure with downpipe straps above and below.

Soilsoaker preparation

- Threaded Access Caps - drill 28mm hole in the centre.
- Barbed Tank Outlet - cut barb off at end of thread.
- 3m PVC Pipe - cut 2 x 1470mm lengths (water towers) leaving a 60mm length.
- Methylated spirits - using a cloth clean PVC stormwater pipe ends and fittings joins

Soilsoaker assembly and installation

- Fix Tank Outlets to Access Caps and screw on Ball Valves and Hose Tails
- Apply Solvent Cement to Access Tee, 90° Elbow and Coupling Access sockets
- Position the Access Tee with the threaded socket upright and insert the 60mm PVC Pipe into the threaded socket
- Insert 90° Elbows into the Access Tee's side sockets at 90° then insert the 90° Elbow sockets down 180°
- Insert 1 end of the PVC pipe into Coupling Access sockets and the other into the Access Tee and 90° Elbow assembly sockets
- Scw Access Cap assemblies to Coupling Access sockets.
- Insert the Soilsoaker's Access Tee into the Rainwell RFD's socket and hold the Soilsoaker in position to mark and fix the Downpipe Brackets
- Apply Solvent Cement to the Rainwell RFD's socket and insert the Soilsoakers, secure on Downpipe Brackets.

