

Rainwell RFD Installation Guides

Rainwell RFD - Rainwater Tanks

The Rainwell RFD can connect to the rainwater tank with watertight pipework above or below ground to either, the existing rainwater tank overflow outlet or additional rainwater tank flange. A manhole cover over the leaf-strainer opening will prevent accidental entry and inhibit algae growth.

Fit supplied mounting brackets to the Rainwell RFD if the downpipe is against the wall, and if the downpipe is away from the wall, use straps with stand-off brackets above and below to secure the Rainwell RFD.

To install the Rainwell RFD on the downpipe; remove filter assembly and slide the Rainwell RFD into the upper downpipe section to drop the overflow outlet flange into the lower section, and refit filter assembly.

Additional Rainwater Tank Flange/s

Requires fitting a 90mm flange/s on the rainwater tank and a manhole cover over the leaf strainer opening. The existing overflow outlet fitted with a mosquito-proof screen provides tank ventilation. This procedure can be carried out by the tank manufacturer during construction.

Remove downpipe section. Create a horizontal line from 10mm min. below the tank existing overflow outlet invert to mark the *Overflow height* on the downpipe, then 325mm above this mark create the *Top cut* mark - ensure 50mm clearance above this mark is available. Cut the *Overflow height/Top cut* marks to remove the downpipe section.

Rainwater tank preparation. Locate the flange centre 130mm below the *Overflow height* - this measurement provides a fall to prevent pooling in the aboveground pipework, add 2mm for every additional metre beyond 2 metres. Create a 90mm dia. hole and fix the tank flange and connect pipework to the Rainwell RFD, ensure the flange and all pipe joins are watertight and secure

Existing Rainwater Tank Overflow Outlet.

The mosquito-proof screen on the rainwater tank's overflow outlet must be removed and mosquito-proof vent cowl installed if a cover over the rainwater tank's leaf-strainer opening is fitted.

Remove downpipe section. Create a horizontal line from the centre existing overflow outlet to mark the *Overflow height* on the downpipe, then 325mm above this mark create the *Top cut* mark - 50mm clearance above this mark is required. Cut the *Overflow height/Top cut* marks to remove downpipe section.

Multiple Downpipe Connection.

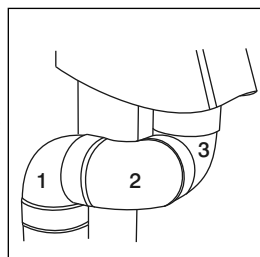
Ensure all Rainwell RFD's are at equal heights on the downpipes. Use the New Rainwater Tank Flange installation method.

Rainwell RFD - Bladder Tanks

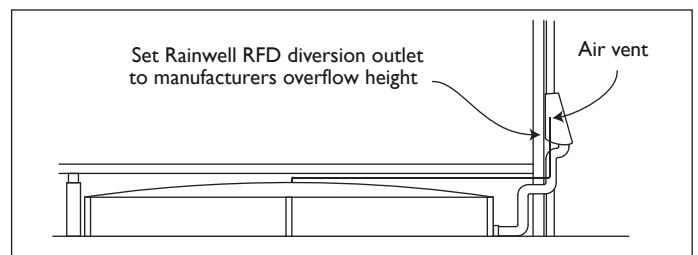
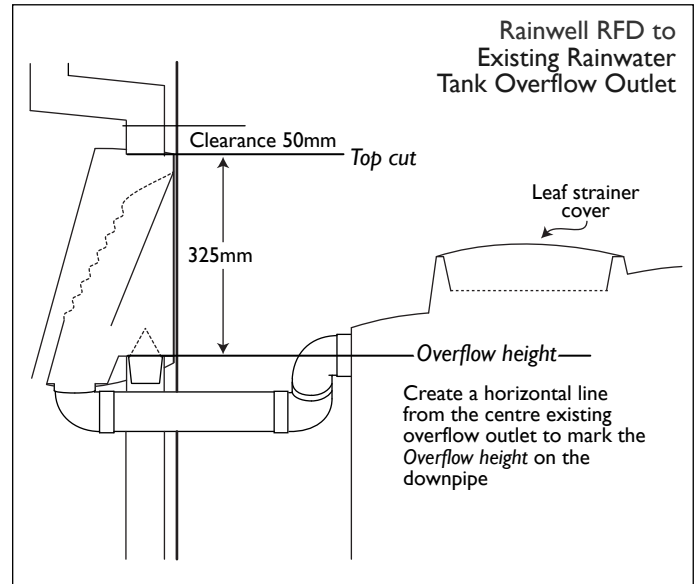
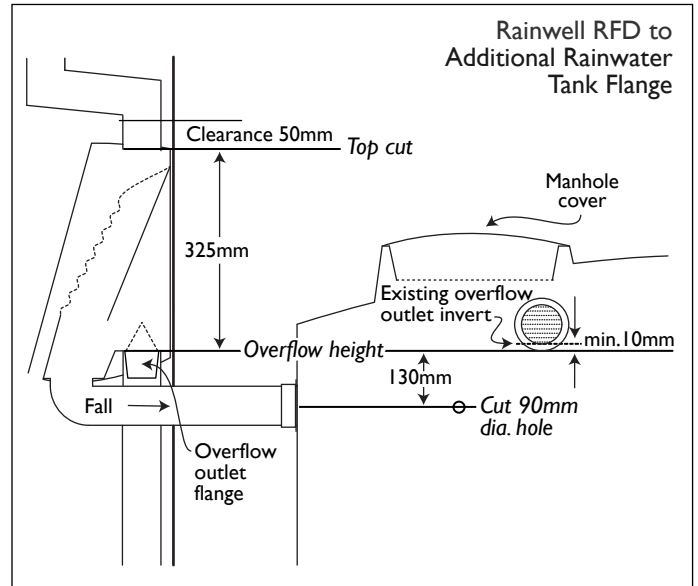
The Rainwell RFD's overflow height on the downpipe must be the same as the bladder manufacturer's recommended overflow height. Exceeding the overflow height can cause bladder damage. The bladder's air release vent must be sufficiently above the Rainwell RFD's overflow outlet.

Rainwell RFD to Rainwater Tank Connection.

Connect 3 x 90mm 90° M/F elbows to the Rainwell RFD's connection flange to align the connection pipe to the downpipe. Swivel elbow #1 to direct pipes vertically or horizontally to the rainwater tank.



Ensure all pipe joints are sealed and installation complies with local regulatory authority requirements.



First Flush Device

The first flush device is recommended when connecting the Rainwell RFD to the existing rainwater tank overflow outlet.

It will divert the initial rainfall containing soluble contaminants and will release water in the connecting pipes to prevent stagnation.

