



PortaFLOC 0800 247 839

# PORTAFLOC

## ASSEMBLY AND MAINTENANCE GUIDE

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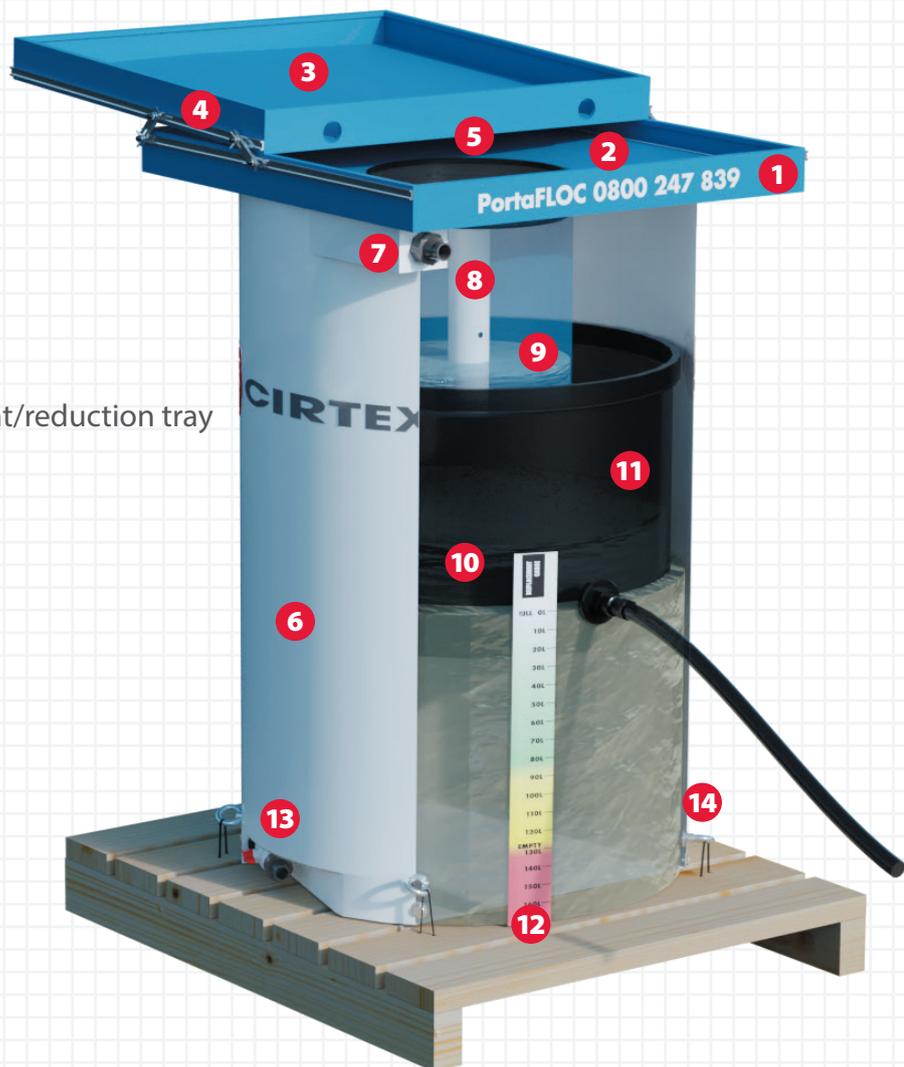


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## PORTAFLOC RAINFALL ACTIVATED DOSING DEVICE

- 1 PortaFloc system
- 2 Catchment tray
- 3 Reversible catchment enlargement/reduction tray
- 4 Easy track adjustment system
- 5 Removable dust/debris screen
- 6 Chemical reservoir
- 7 Chemical fill point
- 8 High flow/low flow drains
- 9 Header tank
- 10 Rainfall displacement tank
- 11 Chemical outlet hose
- 12 Displacement gauge
- 13 Displacement tank drain
- 14 Anchor points



# INSTALLATION GUIDE

The size requirements for your PortaFloc unit will be detailed in your CTMP. These will include the catchment tray size (determining the volume of floc to be dosed during rainfall) and header tank hole placement (to allow for an accumulation of rainfall before dosing activates (typically 12mm).

Catchment tray sizes are determined by a combination of the upper and lower tray which can allow for a reduction or enlargement of the total bottom tray area.

The upper tray is fixed at the desired location via the easy track system and should be elevated to increase the slope angle as required to either accumulate or shed rainfall.

The header tank holes are to be drilled (3mm low flow and 10mm high flow) at the heights determined in the CTMP.

The PortaFloc should be on a level area, on a pallet, out of the way of construction activity and at a location where the dosing hose can deliver chemical into the pond entrance approximately 5m or more upstream from the

forebay or DEB. This is to allow for adequate mixing of the flocculent with the sediment laden water and optimising the coagulation process. The dosing hose can vary in length, but care should be taken to ensure a uniform fall is achieved from the PortaFloc outlet to the dose point.

The PortaFloc should be located on level ground and can be secured via brackets at the base of the unit. It may also be beneficial to consider locating the unit on a pallet as a level platform.

Once the PortaFloc is located in situ the dosing hose can be cut to the desired length, supported with Y-Posts along its length and attached securely to the PortaFloc outlet.

The unit can be filled utilising a pump and 18mm garden hose connections or gravity fed from an IBC. Prior to filling check that the drain for the displacement tank is closed. It is important that the unit is filled until flocculent reaches the outlet to ensure that displacement occurs as soon as rainfall passes through the low flow rainfall outlet.





# PRE-CONSTRUCTION CHECKLIST:

## TOOLS & SAFETY GEAR YOU WILL NEED:

- Knife or PVC pipe cutter
- Tape measure
- 3mm & 10mm drill bit
- Drill
- Hammer to drive in Y-posts

## MATERIALS YOU WILL NEED:

- Y-posts
- Safety caps
- Tie-wire or Cable ties



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# ASSEMBLY GUIDE

## STEP 1

Set up the PortaFloc on level ground away from construction activity allowing for the dose point to enter approximately 5m before the deb/pond forebay.

## STEP 2

Drill the 10mm high and 3mm low flow holes in the PVC tube in the header tank as per the details provided in your CTMP (chemical treatment management plan). Ensure any drill tailings are removed from the header tank. Replace tank screen to protect from debris. (part 9 is the header tank)

## STEP 3

Set the catchment tray area as detailed in your CTMP to ensure correct sizing and displacement volumes are achieved during rainfall.

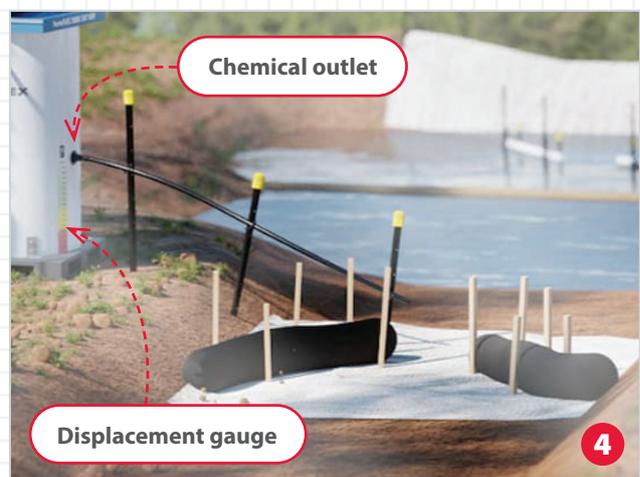
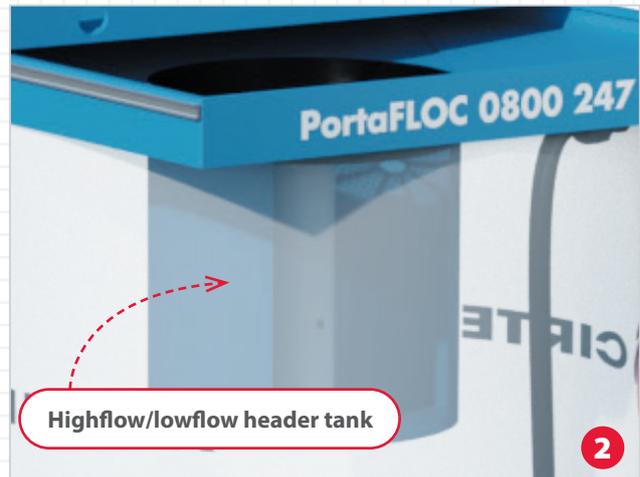


### TIP

You can expand the tray area by facing the holes in the sliding extension tray into the centre. You can reduce the area with the same tray but by facing the holes away from the centre. Tilt the tray to the end with the holes to allow water to drain away freely.

## STEP 4

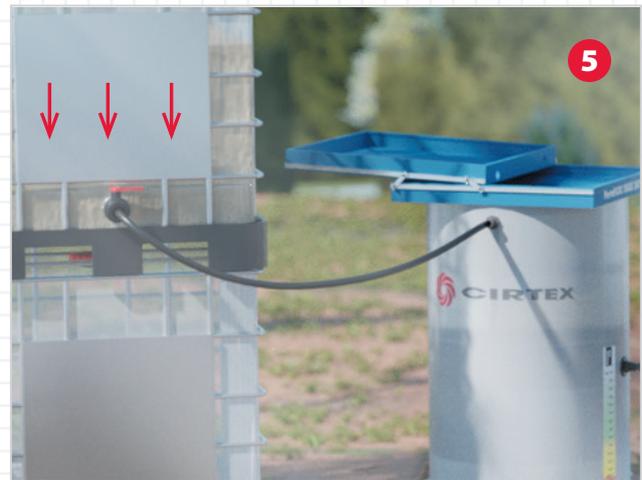
Attach the dosing hose to the chemical reservoir outlet, cut to the desired length and secure at approximately 2m intervals ensuring a uniform fall along the length. The dose point should be secured approximately 300mm above the floor of the entrance channel. Consider creating a concentrated dose point and stabilizing the channel at this point.



**STEP 5**

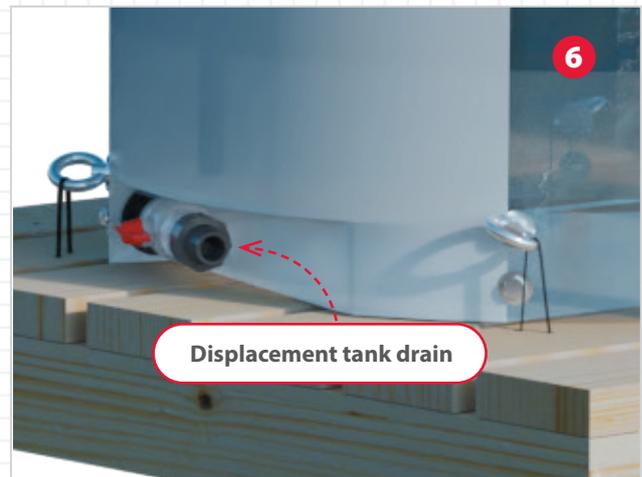
Fill the PortaFloc unit either via 200l drums (13187) and the Cirtex hand pump (56371) or gravity feed via and IBC (13998) and an IBC filling hose (56188). Fill the unit until you can see chemical coming out the dose hose. This is to ensure that there is no delay in activation during rainfall.

(IBC hose needs to run downhill as this is a gravity feed option)



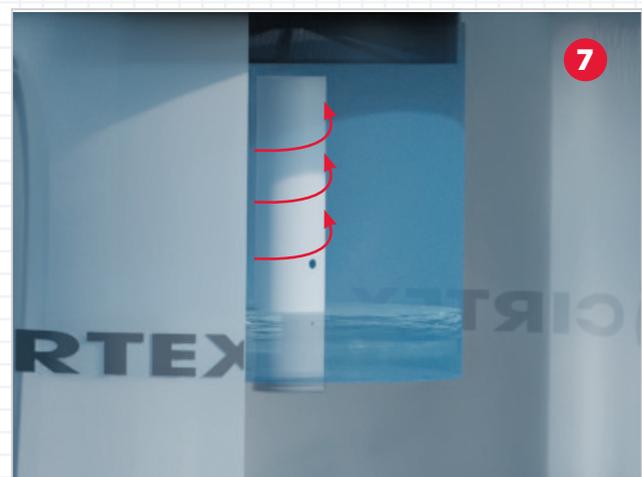
**STEP 6**

To empty the displacement tank simply open the tap located at the bottom of the chemical reservoir. If you wish to discharge this water away from the base of the unit then connect the 18mm garden hose, used for filling the chemical reservoir (supplied separately).



**STEP 7**

Header tank draining can be completed by removing the centrally located pipe containing the low and high flow holes. The water will pass through to the displacement tank then out through the Easy Drain. It is important to ensure you drain the displacement tank first to ensure that the water is not accumulated, displacing additional flocculent.



# MAINTENANCE GUIDE

GD05 and your CTMP clearly details the maintenance requirements for your rainfall activated system. There are two main reasons why the system could fail during a rainfall event. Low flow, and or high flow holes or the dosing hose become blocked by debris; or the system runs out of flocculent.

The PortaFloc contains a debris screen to prevent blockages entering the system but regular checks are recommended to ensure the system with activate during rainfall. The unit should be refilled after any significant rainfall to ensure that it has enough flocculent in its reservoir for the duration of a rainfall event.

The header tank should also be drained as per the guidelines in the CTMP between rainfall events.

Once the header tank is drained to the desired level the tube can be replaced.

Whilst the displacement tank is draining the other requires pond checks can be carried out such as pH and clarity.

Once the displacement tank is empty close the Easy Drain outlet. The unit can then either be gravity filled [part number from NetSuite] or pump filled [part number from NetSuite] via the designated fill point.

If you need further assistance in relation to any aspects of your chemical treatment, then please contact us.





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