



LARGE FLOC SHED

—
ASSEMBLY + MAINTENANCE GUIDE



G 093 001
MARCH 2020

0800 CIRTEX (247 839) | WWW.CIRTEX.CO.NZ



PRE-CONSTRUCTION CHECKLIST

TOOLS + SAFETY GEAR YOU WILL NEED

- Battery drill
- Drill bits
 - 25mm (low flow and high flow outlets)
 - 30mm (hole for chemical outlet)
- Crescent (to fit up to 30mm nut)
- Ladder (to be able to reach the roof)
- Caulking gun (for silicon)
- Gloves
- Eye protection

MATERIALS YOU WILL NEED

Available from Cirtex

- **Code 56159** Cirtex Floc Shed Kit (Large) 1.2m x 1.2m x 2.4m Easy Drain Kit Includes: 1 x Floc Shed with standard roof, 1 x Displacement Tank 400L Black, 1 x Floc Tank 800L Natural with Easy Drain System & Floc Filling Connection, Tank Fitting, Dosing Hose 5m, 1 x Header Tank 108L Blue with fitted outlet drain, High Flow Fitting, Low Flow Fitting
- CIR-PAC Polyaluminium Chloride, available in the following sizes (minimum of 500 litres required):
- **Code 13187** 200L Drum (also requires 1 x Code 56372 as below)
- **Code 13998** 1000L IBC (also requires 1 x Code 56188 as below)
- **Code 56372** EziAction 200L Drum Pump & Filling Hose
- **Code 56188** IBC Filling Hose 5m

Optional (Site Specific)

- **Code 56160** Floc Shed Roof Extension (Fits Large Floc Shed) 2.4m x 1.2m

Contractor to supply

- Silicon
- 65mm screw x 9 (8 x for screwing roof down and 1 x for hanging hose with tap on).
- If roof catchment area needs to be increased: 2 x 50mm x 50mm posts (height will differ depending on the roof extension height)
- Y Posts and cable ties for supporting outlet hose
- Site specific floc plan (Cirtex can prepare this)



If any questions or concerns are not covered by these instructions please contact Cirtex on **0800 247 839** or email **sales@cirtex.co.nz**

IMPORTANT INFORMATION

Throughout this document you will see two types of notes:



TIP

Ideas to improve installation.



IMPORTANT

Essential information required for installation steps



ASSEMBLY GUIDE

- 1 Unloading: If no forks are available, you can use the two lifting holes at the top of the Floc Shed for ease of lifting using an excavator (see Fig. 1.1). After checking the door is securely closed and roof attached to the side of the shed, we recommend inserting a heavy-duty strap through these holes and carefully lift into position.

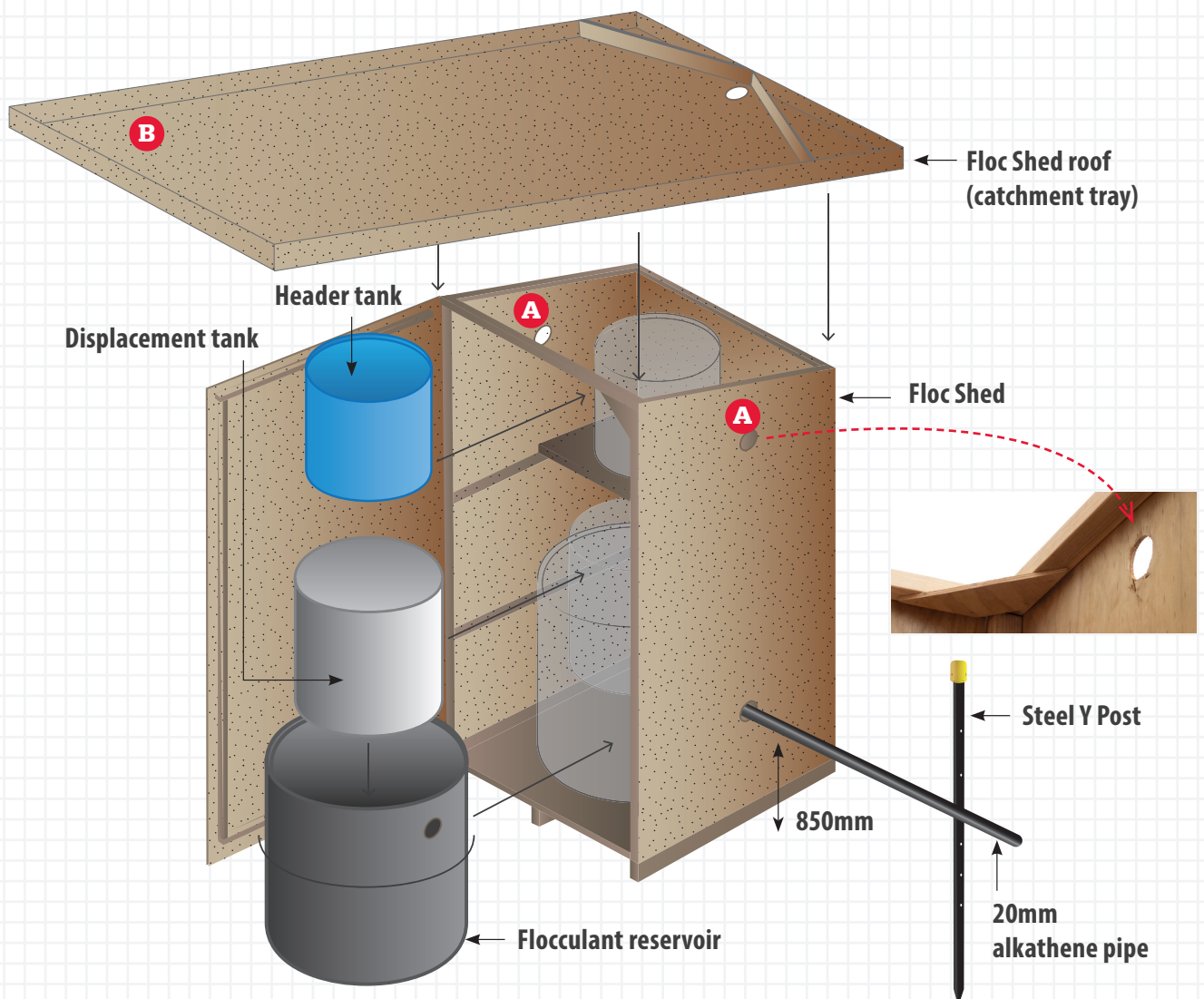


Fig. 1.1
Lifting holes + roof positioning

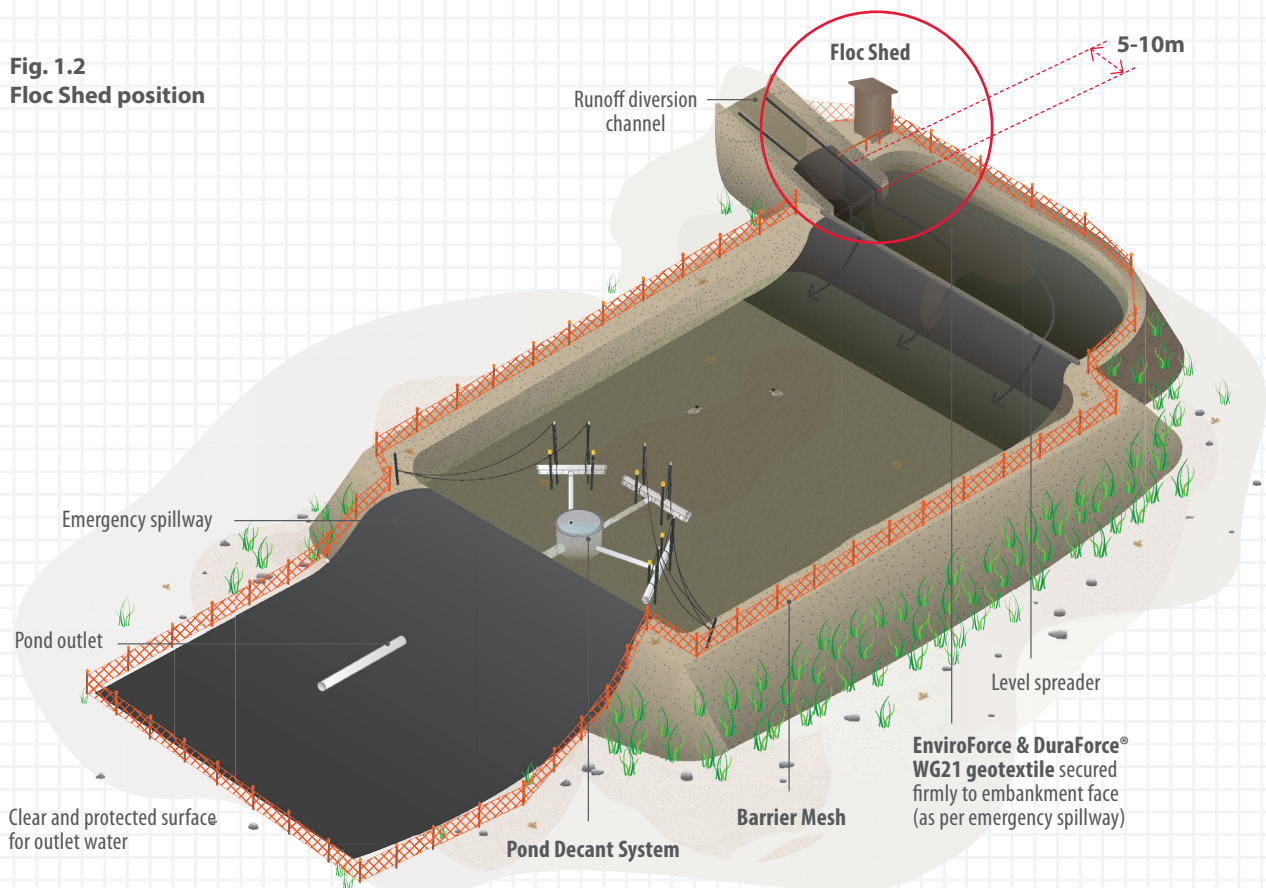
- A Lifting holes
- B Roof strapped to side of shed on delivery



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The dose point from the shed should be located in the runoff diversion channel 5 – 10 metres prior to the forebay to allow for sufficient mixing of the PAC with stormwater before entering the forebay. The dose point should be located in the centre of the channel and secured with a y post 15cm above the channel floor. It is worth considering lining the channel floor of the channel at this point with Enviroforce to prevent scouring and erosion during rainfall events.

Fig. 1.2
Floc Shed position



- 2 Check your floc plan (see Fig. 1.3) from your consultant. If you don't have one, please contact us before proceeding any further.

Catchment Designation					SAMPLE ONLY	
Product	Catchment + Area	Recommendation	Catchment Tray Area	Header Tank Low Flow (3mm)*	Header Tank High Flow (10mm)*	Estimated rainfall before refilling
CIR-PAC 4 ppm	Catchment 1 4.8 ha	Cirtex Large Floc Shed	3.60m ²	40L 150mm	80L 300mm	111mm

Fig. 1.3
Floc plan example

This is your roof area required.

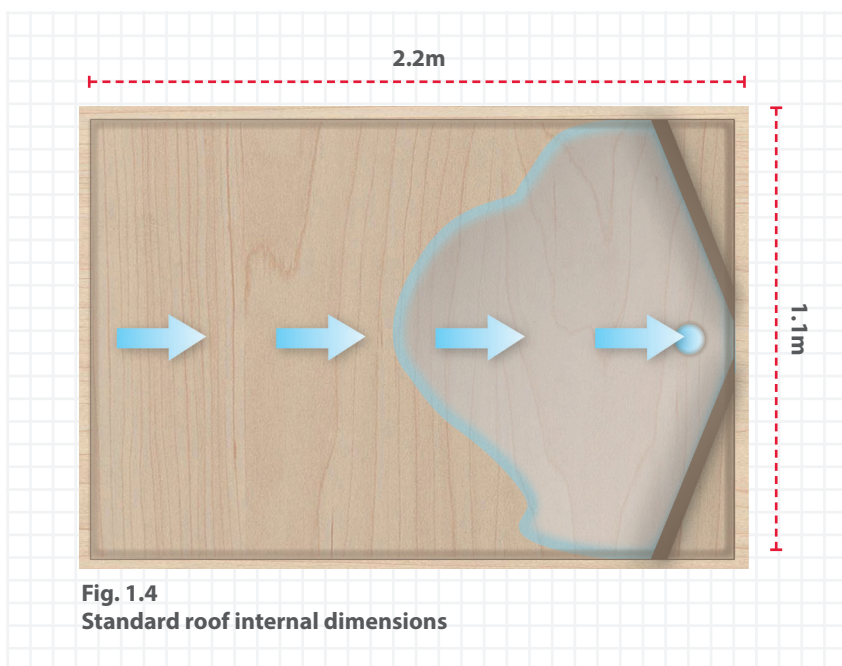
This is the bung size for the low flow outlet.

This is the height of the **first** hole from the base of the header tank.

This is the height of the **second** hole from the base of the header tank.

3 Fit your roof to the top of the shed following the steps below:

- Your roof should be strapped to the side of your shed (refer to Fig. 1.1) so you will need to hold the roof (we recommend having two people available for safety), cut the straps and gently lower this to the ground.
- The standard roof size is 2.2m x 1.1m (excluding the framing timber) and has a catchment tray area of 2.42m².



- If more area is needed than is provided by the standard roof area, add another piece of plywood on to the front (or side if large addition required) and frame accordingly. In most cases we recommend installing supports underneath of this additional plywood using 2 x 50mm x 50mm timber battens.

Cirtex can also supply an extension/reduction tray.



IMPORTANT

Example calculation:
3.6m² required less
2.42 achieved by
std roof = 1.18m²
additional catchment
tray area required.
Therefore, 1.18m² /
1.1m wide = 1.08m
length piece.



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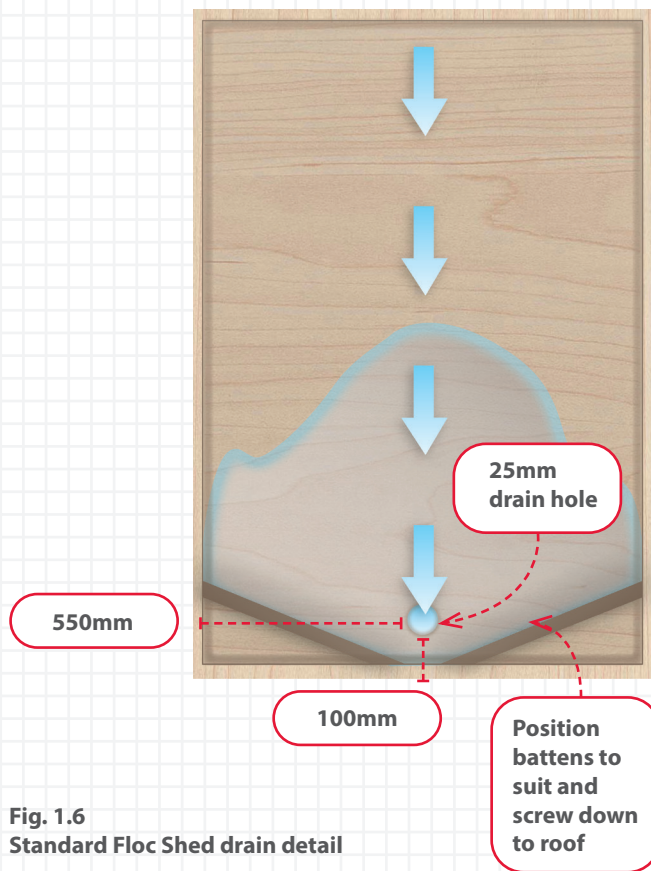


Fig. 1.6
Standard Floc Shed drain detail



IMPORTANT

Example calculation:
 1.95m^2 required less
 2.42m^2 achieved by std
 roof = 0.47m^2 needed to
 be covered up. Therefore,
 $0.47\text{m} / 1.1\text{m width} =$
 $0.43\text{m length piece.}$

Fig. 1.7
Prefitted bung



4 HEADER TANK:

a. OUTLET #1:

- i. Drill 25mm hole at the height specified by the floc plan (this is typically referred to as 'X' or 'Low flow' outlet). Refer to Fig. 1.8 for details and connect the connection and hose supplied





b. OUTLET #2:

- i. Drill another 25mm hole at the height specified by the floc plan (this is typically referred to as 'Y' or 'high flow' outlet). Refer to Fig 1.8 for details.

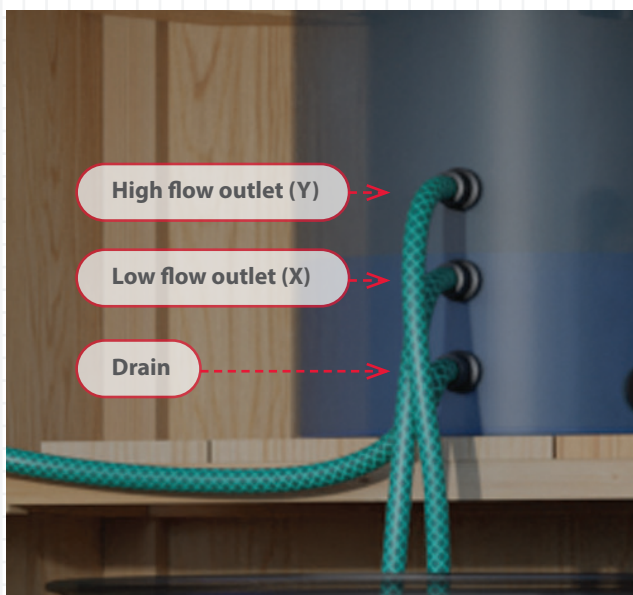


Fig. 1.8
Header tank pipe connections



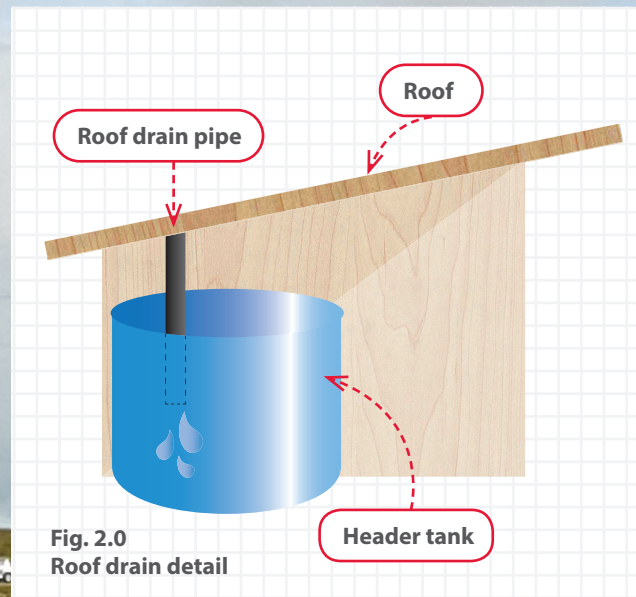
Fig. 1.9
Drain tap detail
(Ensure remains closed during operation)



5 ROOF DRAIN

Pre-drilled by Cirtex. Client will need to fit the roof drain (supplied).

- 6** Place header tank onto the top shelf, ensuring the roof drain is located inside the header tank.



7 FLOC TANK

- a. The displacement tank is supplied with a connection through the chemical tank to allow draining of accumulated rainfall. Ensure the exterior tap is closed at all other times.
- b. Insert the floc tank with displacement tank inserted on to the floor of the shed.
- c. Drill 1 x 30mm hole in the side of the floc tank at one of the premarked 875mm height markings. (this is for the discharge hose so choose the best side for your setup).
- d. Insert the 20mm fitting into the hole and rotate the floc tank (is pointing to the side of the shed that the discharge hose will come through).
- e. Connect hose through either of the pre-drilled holes on the shed and connect to tank fitting.
- f. Insert discharge pipe through side of shed, connect to 20mm fitting and place other end of pipe 5-10m from the entrance to the forebay into the centre of the run-off diversion channel.
- g. Fill the floc tank until the floc starts flowing out the discharge pipe (will typically need 500lt of floc). This will mean that the Floc Shed is charged and ready for the first rain event.

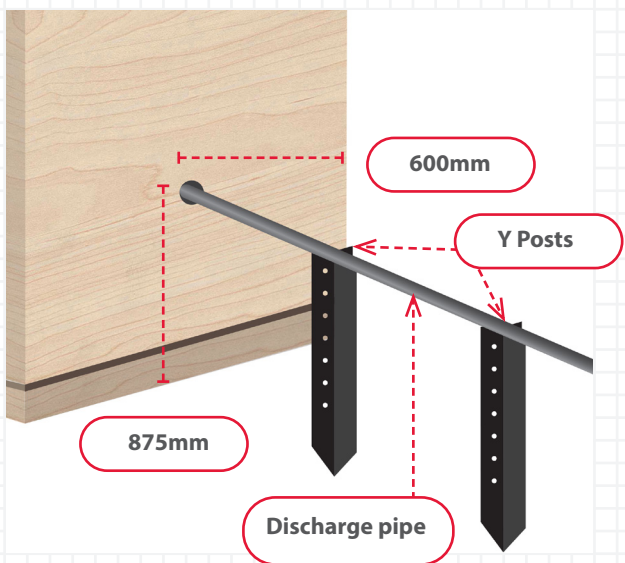


Fig. 2.1
Pipe discharge detail



IMPORTANT

Eye protection, suitable clothing and gloves must be worn during step g.



TIP

The floc tank can either be filled using an eziaction pump prefitted with 18mm hose (part 56372) and tank connector or gravity fed from an IBC using a 5 m 18mm hose with IBC and tank connections (part 56188). Line the diversion channel from point of floc discharge hose to forebay with geotextile i.e. EnviroForce. Ensure header tank and displacement tank taps are closed after maintenance is carried out.

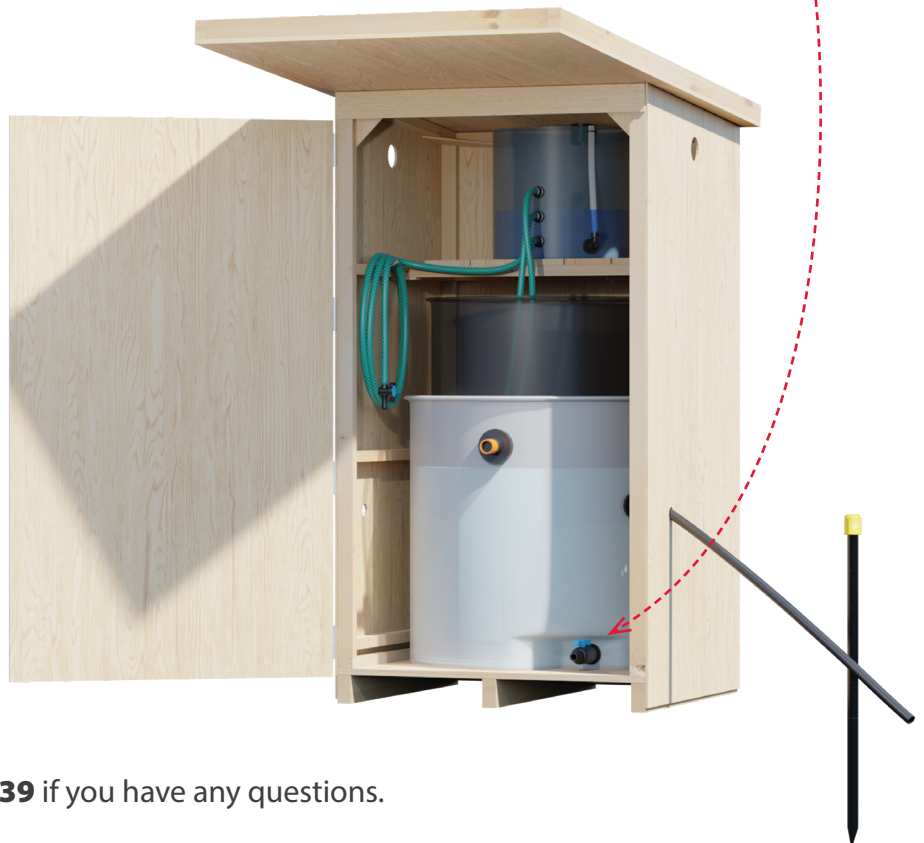


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MAINTENANCE GUIDE

Please refer to your floc plan for site specific maintenance instructions.

These instructions should cover off the emptying of the header/displacement tanks and topping up the floc tank.



Water can be drained from the internal displacement tank via the external tap which is connected via an internal hose. Water should be drained and Floc replenished after each rain event.

Please phone us on **0800 247 839** if you have any questions.



TIP

After storm events we recommend to check the roof for any debris such as leaves.

These should be removed to prevent the roof drain from blocking.



IMPORTANT

This document is designed to be a 'helpful guide' to assist with installation and is generic in nature.

If any site-specific advice from your consultant conflicts with any of this guidance, it must take precedence.

Cirtex Industries Limited is not liable for any misunderstanding or misapplication of the guidance above.

We reserve the right to update this document at any time to ensure it reflects our current product and/or procedures. Please contact us on 0800 247 839 if you would like confirmation you are using the most up-to-date version.

DECOMMISSION GUIDE

Once the project is complete and the Floc Shed is no longer required, it can be packed up and taken back to your yard for future use or to another project.

The following steps are generally required for decommissioning a Floc Shed:

1. Empty all water from the header tank using the tap fitted
2. Empty all water the displacement via the tap on the chemical tank.
3. Empty the floc tank using the eziaction drum pump and transfer back into floc drum (or any other suitable storage drum/container).
4. Disconnect discharge pipe and place inside the shed for future use.
5. Shut shed door and thread wire (or padlock) through latch to prevent coming loose and opening during transport.
6. If you have added additional roof area, remove this.
7. Lift upright onto truck/trailer using the lifting holes at the top.
8. Unload using lifting holes at the top and position upright on a flat surface.
9. Cover up the roof drain hole, discharge pipe hole on the side and lifting holes at the top (using small piece of plywood or similar method) to prevent birds/rodents from entering the shed.



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