

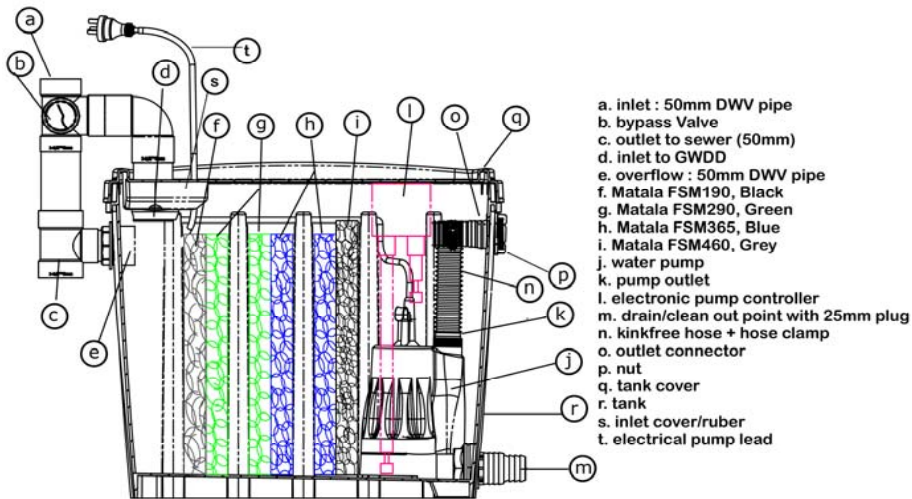
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Installation and Operating Instructions



Congratulations, you are now the proud owner of a Matala Gator Pro!

- **Matala Water Technology Australia Pty Ltd**
Warrant this unit for a period of 12 months from the date of purchase.
- On condition that all faulty parts or pump are returned to the manufacturer.
- Parts or pumps will be replaced or repaired upon inspection if deemed to be faulty if inside the warranty period and the fault was not caused by misuse.
- Incorrect installation or operation of your unit is not covered by warranty.
- Damages incurred to persons or property by incorrect operation or installation of your unit are not covered by this warranty.
- Warranty commences from date of purchase please provide proof of purchase with all warranty claims.

INSTALLATION OF PUMP OPERATED GATOR PRO

The Gator Pro is specifically designed for Grey Water reuse from the laundry, shower and bath waste water.

Your Gator Pro must be installed by a licensed plumber in accordance with regulations AS/NZ 3500.2

We recommend that you also check with your local Water Authority for approval of this type of Seasonal Use Grey Water Diversion device.

It is mandatory that the power circuit to the Gator Pro is protected by a residual current circuit breaker and **we highly recommend that a surge protection device be fitted as well.**

CONNECTING YOUR UNIT

1. Position the unit near your 50mm DWV greywater waste pipe, allowing approx 650-680 mm from ground level to cut in point (Inlet **a**)
2. If the unit is not preassembled remove the filters and all of the fittings from the unit, **taking note of the order of the filters.** Water should flow from inlet to outlet through the Black Green Blue Grey filters.
3. Sit the unit on a suitable concrete slab as a stable base making sure that the unit is level and the drain point (**m**) is accessible. The fitting on the drain has a 25mm thread and plug provided and the outside diameter is suitable for 40mm DWV pipe. This should be plumbed back to your waste pipe for ease of cleaning. The plumber can fit an inline valve here for easy flushing.
4. The Gator pro unit can be buried and backfilled with clean loose sand up to the outside lip on the main container. Maximum burying depth is 400mm. Make sure the lid is still accessible and that dirt or other material will not enter the unit.
5. Assemble the overflow fitting (**e**) spigot to the inlet side of the tank. The inlet side is the side with only one hole, approx 360mm from ground level. The threaded part goes through with a gasket each side. Now thread the elbow or nut (depending on mode) on to the spigot making sure the elbow is facing to the side at 90 degrees. This keeps the overflow level below the electrical control box.
6. Fit the 50mm DWV overflow tee (**c**) to the outlet spigot using PVC glue or silicon if you want to be able to remove the unit at a later stage. Double check the distance from ground level to the point where you have to cut your waste pipe approx 310mm. It is now possible to fit the overflow tee to your waste pipe.
7. Now fit the bypass valve/tee (**b**) to the top side of that tee, using the short piece of pipe provided. Position the valve for easy operation. The valve can be disassembled and made for right or left hand operation. You can now fit your inlet pipe work to this tee, completing the main part of the plumbing. **A,B,C & E** will now be complete.
8. Install the drain fitting (**m**) to the lowest cut out point in the Gator Pro, tightening the outlet firm on the gasket. This fitting has a 25mm female thread with a plug. A drain hose can be fitted to this point back to the sewer. Alternatively 40mm DWV pipe will fit outside this fitting and this can be hard plumbed to drain back to the sewer.

If possible get your plumber to fit an inline valve to the drain to facilitate cleaning.

18. Refit the top cover (**q**) and fit retaining clips to cover.
19. Refit the pipework and elbow to inlet grommet in lid.
20. Finally turn bypass valve to operate position allowing water to be diverted into your unit.
21. Your unit is now serviced and ready for operation.

At this time it is good practice to service your irrigation system.

Turn on the drain valves at the end of your irrigation lines and remove and sediment that may have accumulated in the pipes. Check for any leaks or damage to the irrigation pipe-work.

PUMP OPERATION OF YOUR MATALA GATOR PRO

The Matala Gator Pro unit is unique in that it comes with an electronic pump control (EPC).

This pump control not only starts and stops the pump via the float level, it also is programmed to override the function of the high float switch at least once per day.

This will ensure it will have little or no residual remaining in the unit.

The EPC also avoids the use of an external clock which will easily be disrupted by temporary shut down of electrical supply.

No electrician is required and only one cable plug is needed to be connected to operate the unit.

All Government departments are pushing for low or no residual water in Grey Water Diverters.

Your Gator Pro meets or exceeds these requirements.

Pump Performance Table

- Maximum flow of 130 lpm at 1 metre head
- Rated flow of 65 lpm at 5 metres head
- Maximum current 1.2 amps 240 volt : Cable length 4M
- Warranty is 12 months replacement, on condition that pump is returned to the factory for inspection.
- All pumps have a serial number. This allows for tracking of sales and warranty claims.
- Make sure you keep your proof of purchase for any claims that may arise.

To Start the Gator Pro

- Direct the bypass valve to allow grey water to divert into the unit.
- Connect the power plug to 240 volt 50 Hz power supply with surge protection.
- Note: This circuit must be protected by a residual circuit breaker.

Your pump should need no further attention other than periodic cleaning along with the Matala Filter mats.

GRAVITY OPERATION OF THE GATOR PRO—TO START UP THE UNIT:

Direct the bypass valve to allow grey water to divert into the unit.

Ensure you have positioned the unit with enough height (head) to operate the irrigation system.

Minimum requirements will have to be worked out on site.

Grey water will flow through the filters and out to your distribution system from the outlet (**m**).

- Only irrigate when necessary and switch unit to divert when raining.
- Do not let diverted greywater to run off to neighbouring properties.
- Do not leave unit unattended when carrying out maintenance or when the cover is removed.
- In case of extended periods of non operation it is advised to complete a service and clean of the unit to avoid the possibility of drying out the sludge on the filters.

MAINTENANCE OF YOUR MATALA GATOR PRO

Your Gator Pro has been designed for minimum maintenance.

Due to the high flow capabilities of the 3 dimensional MATALA filters you should only need to clean your unit after approximately 40,000 litres of flow through.

Depending of the number of occupants and the amount of water flowing through your unit the cleaning cycle will be between 120 – 180 days.

Your MATALA filters still will keep working even up to maximum capacity.

Some heavy load situations may require servicing your unit on a more frequent basis.

If you are considering not using your unit for an extended period of time such as a few months, please carry out a full service and clean before decommissioning.

This will keep your MATALA Gator Pro in optimum condition.

When servicing and cleaning your unit please we recommend that you wear protective rubber gloves and avoid skin contact as much as possible.

1. Turn the bypass valve to the bypass position. This will prevent greywater entering the unit.
2. Remove the short inlet pipe and elbow from the top side of your unit. This is usually joined by silicon and not permanently glued.
3. Unclip the two metal retaining clips on the lid. Remove the lid.
4. You can now access the MATALA filter media.
5. For PUMP OPERATED UNITS it is advised to drain the unit via the drain fitting (m)
6. For GRAVITY OPERATED UNITS you need to open your drain valve on the bypass tee.
7. If you don't have this installed remove the pipe from the bottom fitting and fit a temporary drain away from the unit. Sediment will now be directed away from your irrigation system.
8. Rinse the pump and remove it from the tank.
9. Remove the MATALA filter media one at a time taking note of colour order. Black, Green, Blue, Grey.
10. Gently tap the filter on a raised flat surface; this will cause the grey sediment to be displaced.
11. Dispose of in compost heap or in a plastic bag in the garbage.
12. Lightly rinse each filter until you are happy that they are clean.
13. Drain or sponge out the remaining residual in the very bottom of the Gator Pro tank.
14. **WARNING: DO NOT PUMP THE GREY RESIDUAL THROUGH YOUR IRRIGATION SYSTEM.**
15. Reinstall the MATALA filters to the tank in colour order Black, Green. Blue, Grey.
16. For Pump systems close the drain fitting (m) and then reinstall the pump.
17. For Gravity systems turn your drain valve to off and supply valve to on, or remove your temporary drain and reconnect your irrigation system.

9. Now assemble the fittings and hose to the pump. The 32mm socket and hose barb are fitted to the top of the pump. You will need warm water to make the hose flexible enough to fit over the barbs. Hand tighten the hose clamp on the pump end. Now fit the outlet barb (o) to the hose. This barb has several steps. Cut off the first section. The 33mm hose fits the second step. Tighten the hose clamp on this section. The pump is now ready to be placed in the unit.

10. Place the submersible pump (j) + electronic pump controller (EPC) (l) with external float switches in the discharge side of the unit and attach the EPC to the side of the tank, using the stainless steel attachment plate. Make sure that the base plate holding the EPC is firmly attached behind the protruding reinforcement ribs at the side of the tank. The low level float switch should sit close to the bottom of the tank. Make sure it does not come in contact with the tank as this will cause the float to become stuck and the unit will not switch on and off.

Fit the discharge fitting (k) through the outlet hole provided.

Tighten the fitting firmly by hand, do not over tighten.

NB: In the diagram on the back page the nut should be on the outside.

11. You can now refit the Matala Filters in order of removal. Black first then Green by two then Blue by two and finally Grey last next to the pump.

Make sure the filters slide all the way home to fit snug to the bottom of the unit.

12. Now install the Stainless Steel anti distortion bracket across the middle lugs of the Gator Pro.

13. Take the electric lead out through the rubber grommet in the lid. A cut out is provided for the lead in the inlet rubber. It is advisable to flush the unit with clean water to check the operation of the pump. This will also ensure that no foreign material enters the drip system.

14. Finally fit the Gator Pro lid to the tank using the two metal clips provided.

15. Connect elbow (d) with bypass valve (b) and insert provide 50mm pipe through inlet grommet. It is not necessary to glue both sides of these fittings together. One side has to be removed to allow the lid to be removed. This allows easy access for maintenance of filters.

Your Matala Gator Pro unit is now ready for operation.

GRAVITY OPERATION OF MATALA GATOR PRO UNIT

1. The assembly of the Gravity operated unit is exactly the same as the Pump operated unit. The difference is that the discharge point is now the same as the drain point in the pump system. It is not recommended to bury a gravity system.
2. Because you are not using a pump to produce the head pressure to move the water out of the Gator Pro, it is critical that the location of the Gravity unit is of sufficient length to operate the drip system.

Generally 1 metre is the absolute minimum head required.

Please refer to manufactures recommendations as this will differ between products.

Netafim Australia has good information at www.netafim.com.au

3. Connect a length of 25mm lilac pipe or larger from the point (m) to your dripper system.

Using a larger pipe will mean less friction loss. This is critical for the efficient operation of a gravity system.

4. Fit a bypass tee and two inline valves to this pipe before it connects to the drip system. Both valves are located on the downstream sides of the tee

By opening one valve and closing the other this will allow you to flush out any left over sludge after you clean the filters. The drain flush line can be plumbed back to your sewerage system.

TROUBLESHOOTING

| | |
|---|--|
| Water does not flow into the unit | Check the bypass valve, reset to correct position. |
| The unit is full but the pump is not operating. | Check if pump is connected to the power source and check if power is available. The pump should automatically start when water reaches the higher float switch. If pump does not start clean the float switches top and bottom and test again. Make sure neither float is jamming. If it still doesn't operate then call a licensed service agent. |
| The pump cannot maintain the rate of inflowing water. | Check to see if irrigation system is sized correctly The out flow should be equal to the inflow. Are you using the correct drip tube . And do you have enough drip tube connected . Also check for kinks or blockages in pipe work from unit. |
| The pump section is empty while the water level is high on inlet side | Service and clean the filter media to maintain flow. |
| Grey Residual is building up around the Pump | Check the filter media, make sure it is seated correctly and that there are no voids under the filter mats which will cause bypass around the filters. Your unit could need servicing. |
| Offensive odours are released from your unit | Thoroughly clean the unit and the filter media. Make sure no non dissolving substances have entered the unit. IE fats and oil. |

DISTRIBUTION OF DIVERTED GREY WATER

Current Government Regulations state that you must disperse untreated grey water via a **Subsurface irrigation system—drippers under mulch.**

You must use an approved system that is specifically designed for Grey Water.

NB: In some states the Gator Pro will be sold with the G Drip Irrigation Kit.

This product has been specifically developed for dispersing Grey Water. It is an 8 litre per hour dripper inserted in the 12mm lilac tube at 300mm spacing.

Recommendations and Guidelines for irrigation system:

The area required for your Irrigation system depends on the soil type. The chart below shows the suggested spacing required between dripper lines for different soil types. Spacing can be closer depending on application in relation to the total area. Minimum pipe size from the unit is 25mm PVC or LD poly tube. If the discharge is up hill from the unit get the plumber to fit a swing check valve. Not a spring check valve. Spring check valves restrict flow and do not successfully operate with grey water.

Make sure the maximum length of drip tube is 20 metres from the main line

Soil Texture & Structure and Dripperline and row spacing

Area required per person* in household (m2)

| Soil Types | Spac- ing | 1 | 2 | 3 | 4 | 5 | 6 | PEOPLE |
|------------------|--------------|----|-----|-----|-----|-----|-----|--------|
| Gravel and Loams | x.06m | 30 | 60 | 90 | 120 | 150 | 180 | m2 |
| Sandy Loams | x 0.6m | 30 | 60 | 90 | 120 | 150 | 180 | m2 |
| Loams | x 0.8m | 40 | 80 | 120 | 160 | 200 | 240 | m2 |
| Clay Loams | x 0.9m | 45 | 90 | 135 | 180 | 225 | 270 | m2 |
| Light Clays | x 1.0m | 50 | 100 | 150 | 200 | 250 | 300 | m2 |
| Medium to Heavy | x 1.5m | 75 | 150 | 225 | 300 | 375 | 450 | m2 |

Recommended Feature Setback distance (m)

Property boundaries, pedestrian paths, driveways 1m

Footings of buildings 1.5m

Retaining wall footing 1m

Inground swimming pool surrounds 1m

Inground potable water tank 6m

Bores intended for human consumption 30m

Please also refer to your local authority for regulations as these requirements can vary from area to area.

WARNINGS AND PRECAUTIONS FOR GREY WATER REUSE

- Do not connect your Gator Pro to your kitchen sink, dishwasher or a toilet cistern.
- When washing items such as soiled nappies, please switch your diversion valve to divert direct to the sewerage system.
- Do not distribute grey water from your Gator Pro unit via sprinklers or allow for airborne dispersion.