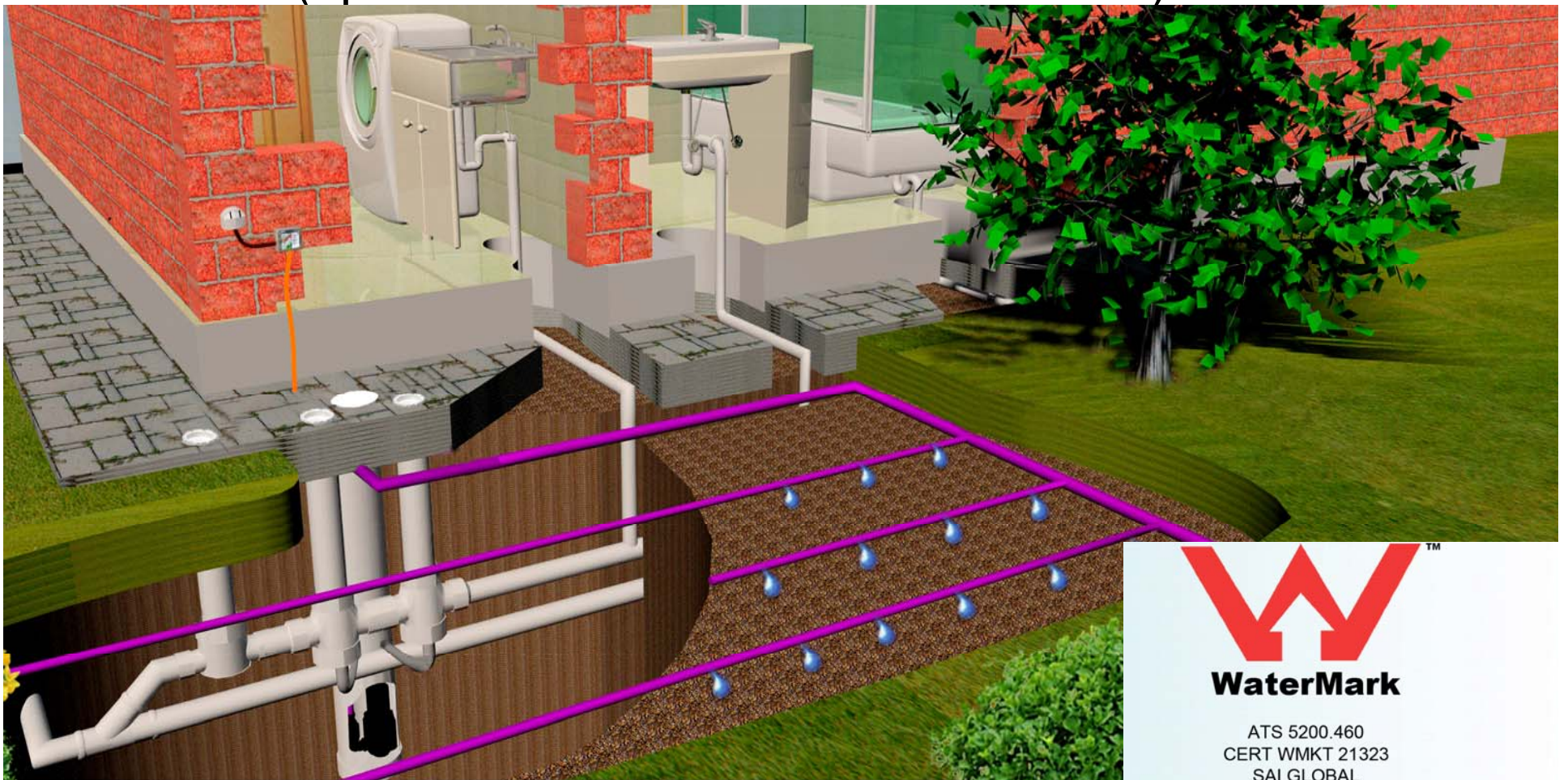




OIM Manual

(operation Installation & Maintenance)



WaterMark

ATS 5200.460
CERT WMKT 21323
SAI GLOBAL

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SELECTION

Congratulation on purchasing the Grey Flow PS Greywater diversion and reuse system. The Grey Flow PS was developed for below ground installations where the Grey water pipe is relatively deep (more than 600 mm) and also to fit tight and narrow spots.

The advantages offered by the Grey Flow PS are as follows:

- Economical
- Easy to install, maintain & operate
- Small footprint
- Ideal for tight and narrow spots
- The Grey Flow PS Model comes as a complete kit with 100 m of purple Grey Flow dripline or alternatively with 200 m of a special Grey Flow Kisss dripline (covered with a geotextile membrane) for sub-lawn applications.
- The Grey Flow PS can be used in conjunction with specific valve indexers (low pressure/low flows as well as flow based indexers) to achieve water distribution over a number of stations (up to 6).
- The Grey Flow PS system has Watermark certification, is approved for use in most states, and attracts government grey water rebates wherever available.
- Manual diversion of the Grey water can be achieved by using the supplied rubber plugs to seal the diversion holes inside the interceptor trap unit (ref to Dwg below).

OPERATION

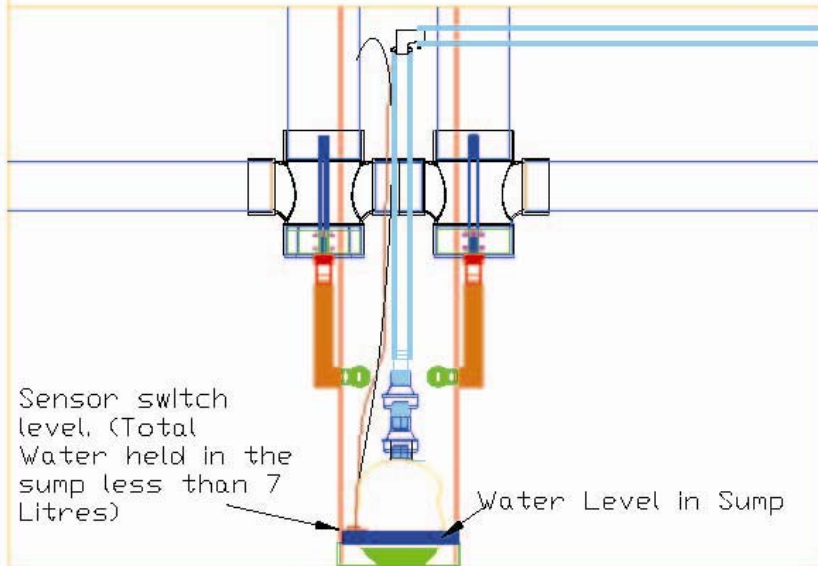
How does the system Operate ?

Operating Logistics

1/4

The water level is below the sensor switching point

- controller is in waiting mode
- Pump is off

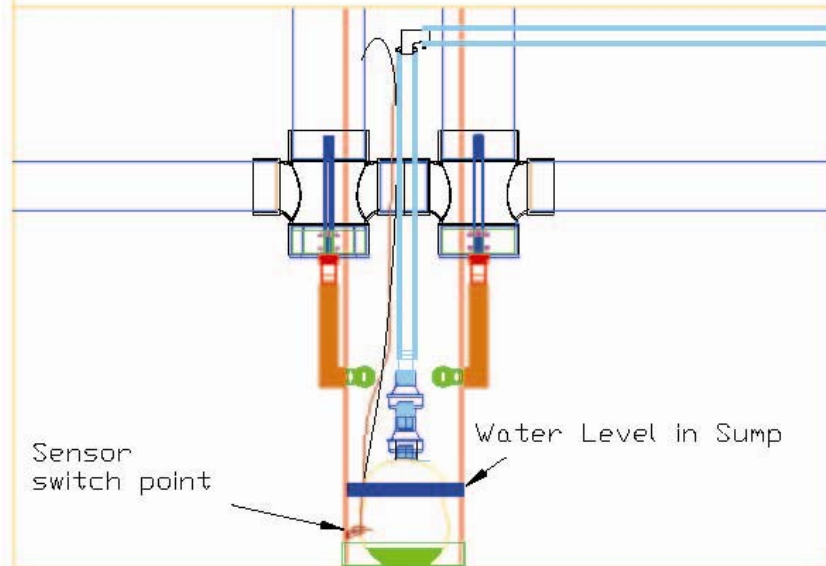


Operating Logistics

2/4

The water level has just risen above the sensor switching point

- controller is active and has initiated the 45 sec delay
- Pump is off



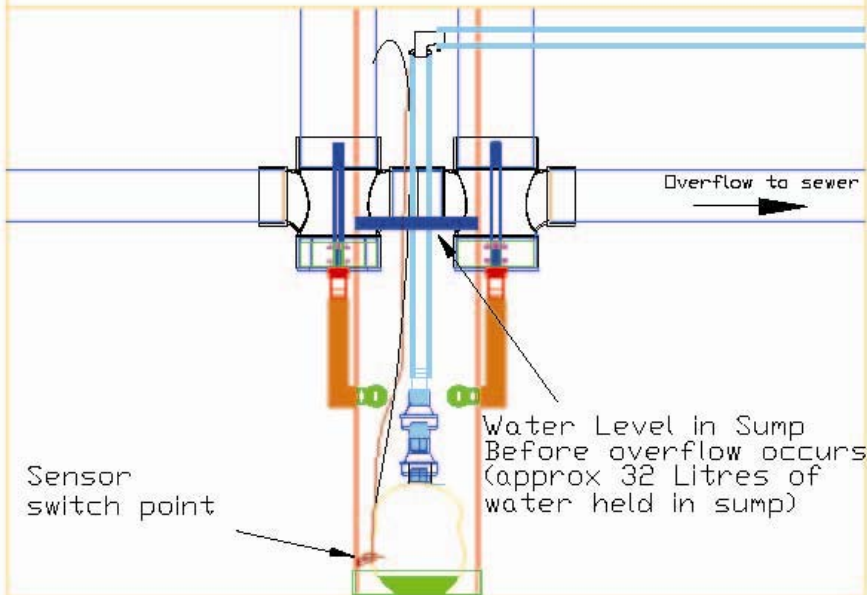
OPERATION

Operating Logistics

3/4

The water level is above the sensor switching point and the 45 second time delay has passed

- controller is active and has activated the pump
- Pump is in operating mode

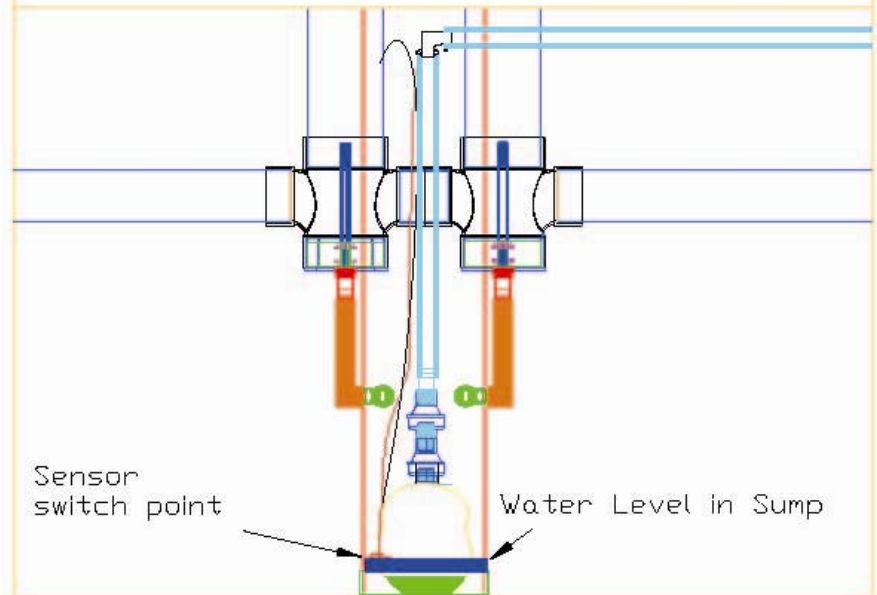


Operating Logistics

4/4

The water level has fallen below the sensor switching point

- controller has deactivated the pump and is in waiting mode
- Pump is off



OPERATION

Manual diversion of the Grey Water to sewer

screw the supplied rubber caps to the two $\frac{1}{2}$ " filter bases

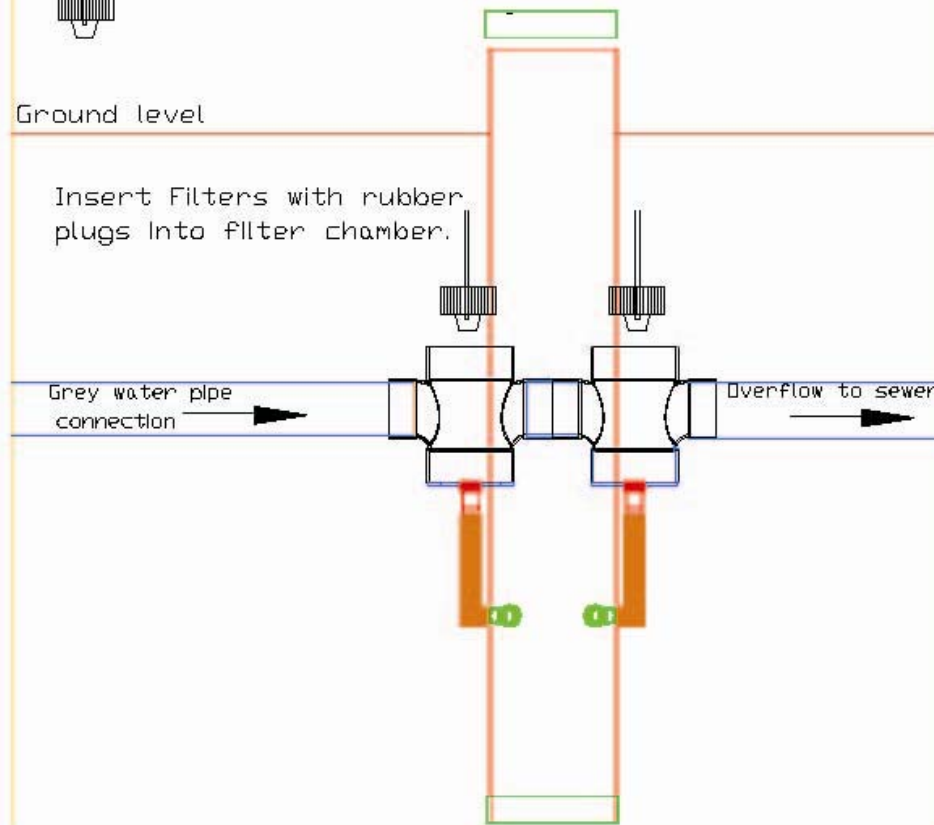


Ground level

Insert Filters with rubber plugs into filter chamber.

Grey water pipe connection

Overflow to sewer



REQUIREMENTS

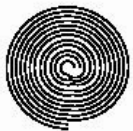
- The dripline should be kept below mulch or soil (check for local State, Municipal & Council laws and regulations)
- 240 volts power supply should be available
- PVC plumbing parts to be installed by a license plumber
- Minimum garden area required & recommended maximum garden area

Number of Bedrooms	Quantity of Grey Water reused in L/day&(L/annum	Minimum area of garden (sqm)	Recommended Maximum area of garden(sqm)
2	279 (101,835)	30	85
3	372 (135,780)	40	110
4	465 (169,725)	50	140
5	558 (213,670)	60	170

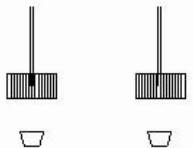
INSTALLATION

Parts List

Supplied Parts list



1 x Roll of Grey Flow purple Dripline with integrated large passage turbulent flow dripper (100 m)



2 x spare filters (for instant swaping at cleaning time)
2 x Rubber Plugs for manual diversion To sewer

Grey Water Warning Sign
To be visible at all time

1 x Corflute Grey Water warning sign

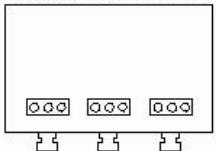


20 x Dripline Takeoffs

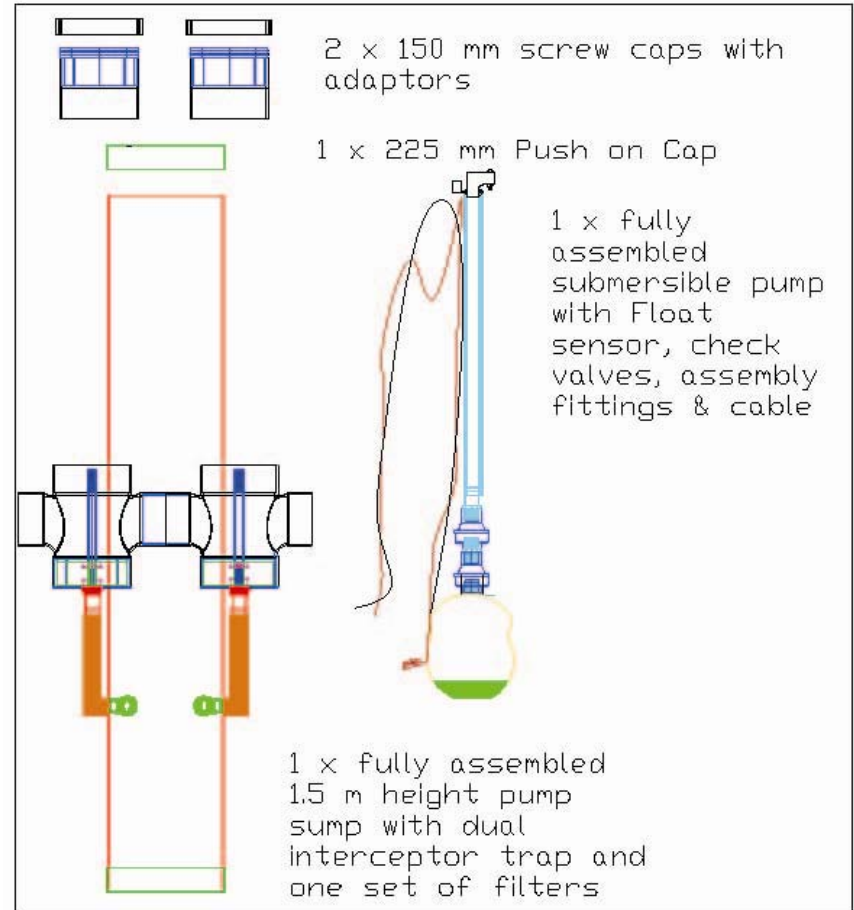


1 x punch tool

Wall Mounted Grey Flow controller



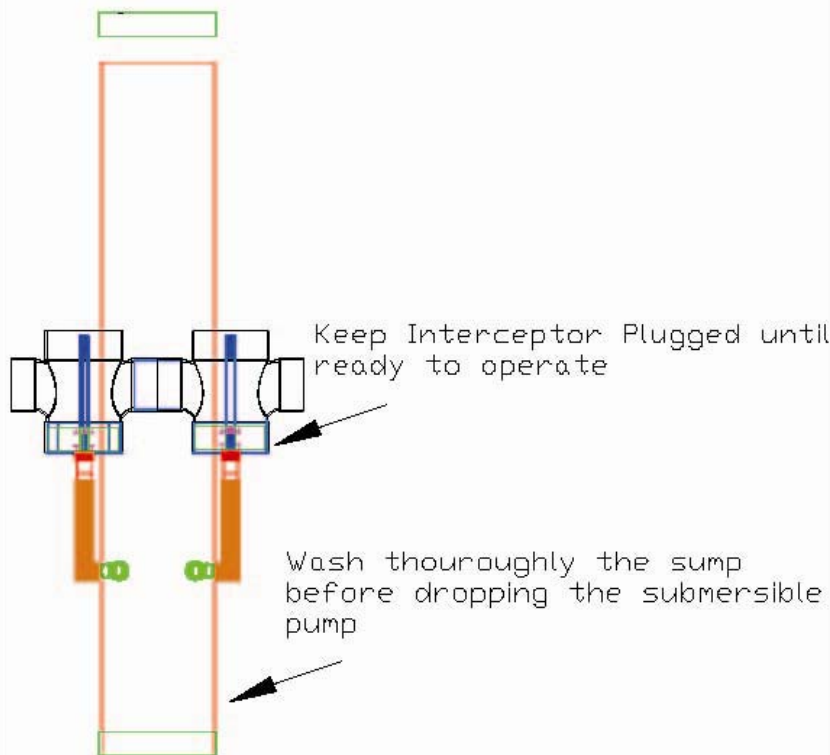
1 x Grey Flow controller with wall mounting brackets



INSTALLATION

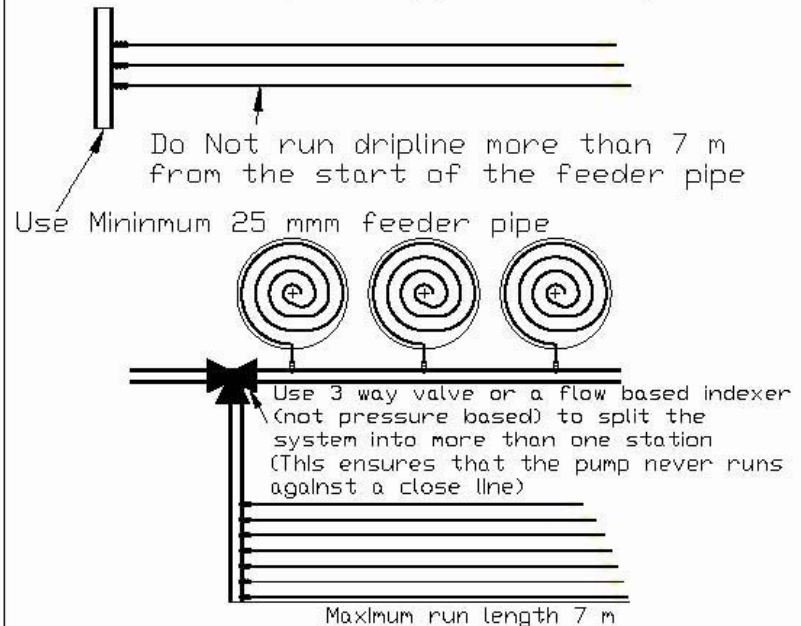
Do's & Don't

Do's & Don't



Do's & Don't

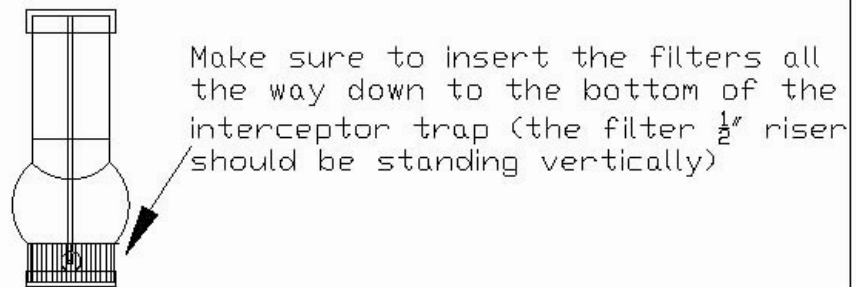
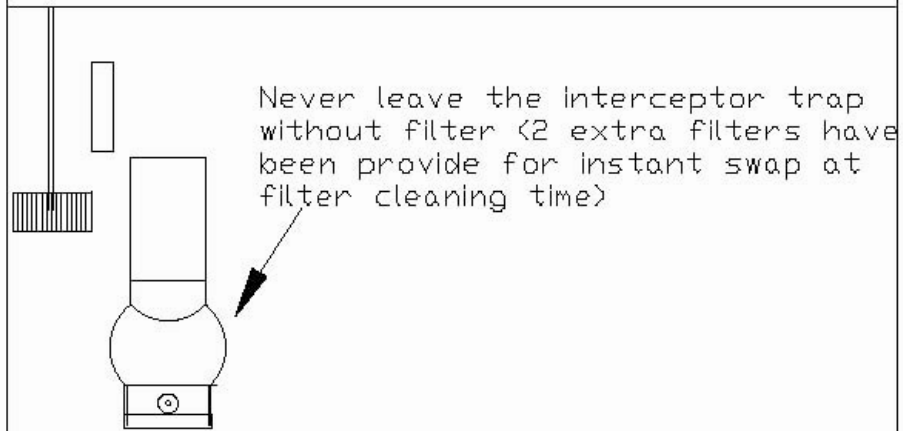
To avoid Grey Water overflow to sewer
Use all 100 m dripline supplied (100 m) per station



Do not connect to existing system or substitute dripline (the supplied pump and filters have been sized to suit the full 100m supplied dripline flows and dripper sizes)

INSTALLATION (Do's & Don't)

Do's & Don't



INSTALLATION (step 1)

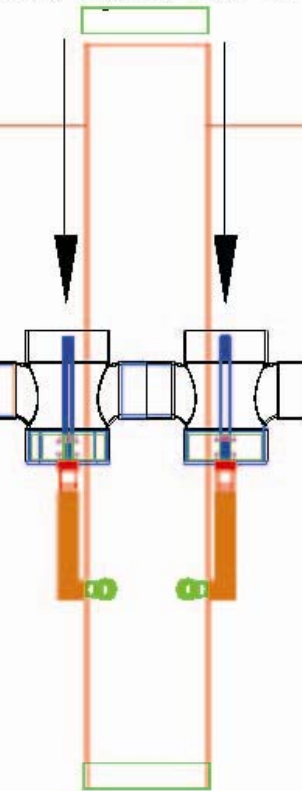
Step 1/1 Installing sump and dual Interceptor

(Make sure to Glue all PVC joints)

Primary filters with service stem

Ground level

Grey water pipe connection



Step 1/2 Extending Riser to Above ground level

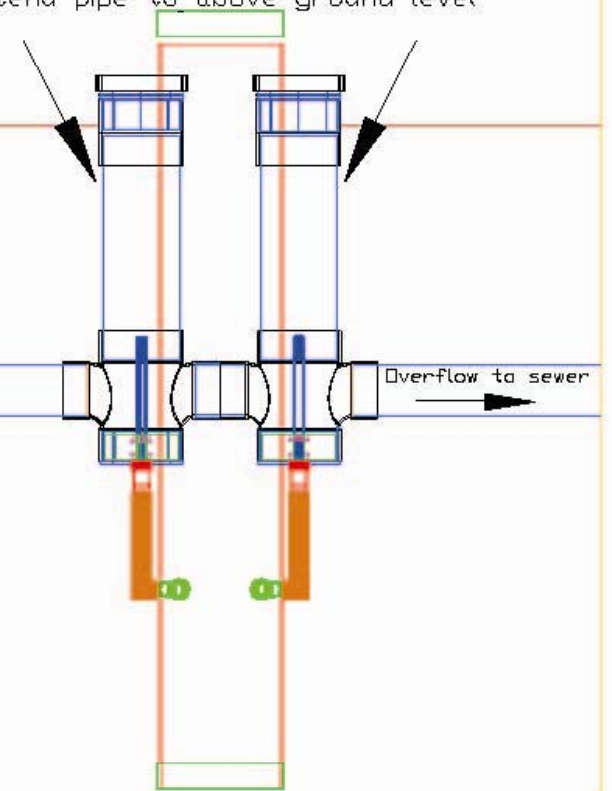
(Make sure to Glue all PVC joints)

extend Stem if required with 1/2" Poly riser
extend pipe to above ground level

Ground level

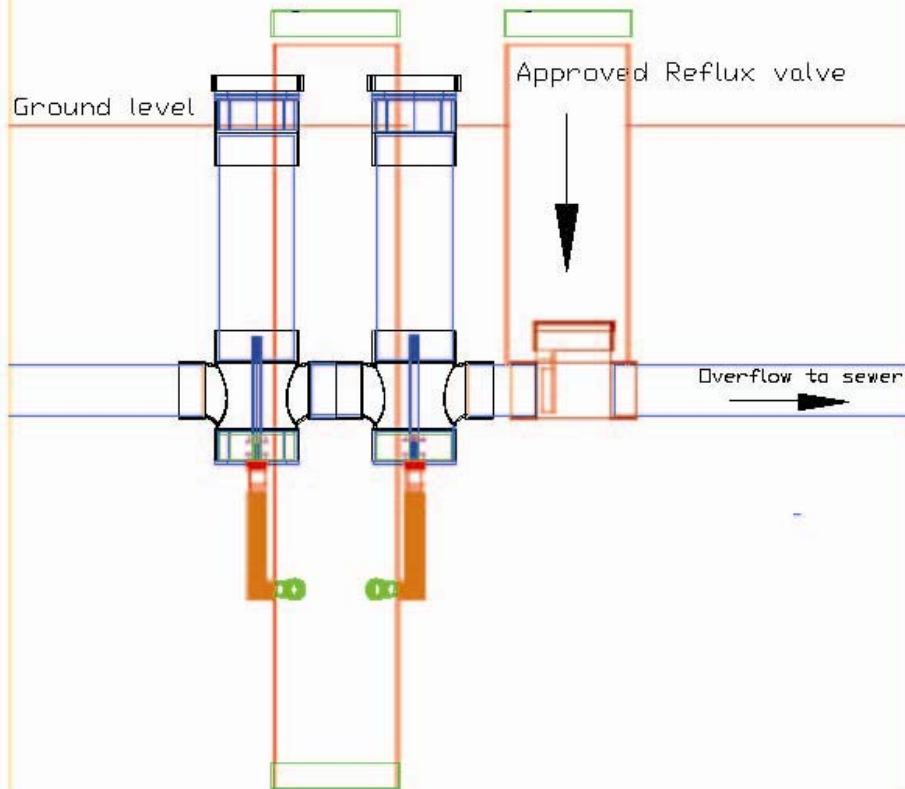
Grey water pipe connection

Overflow to sewer



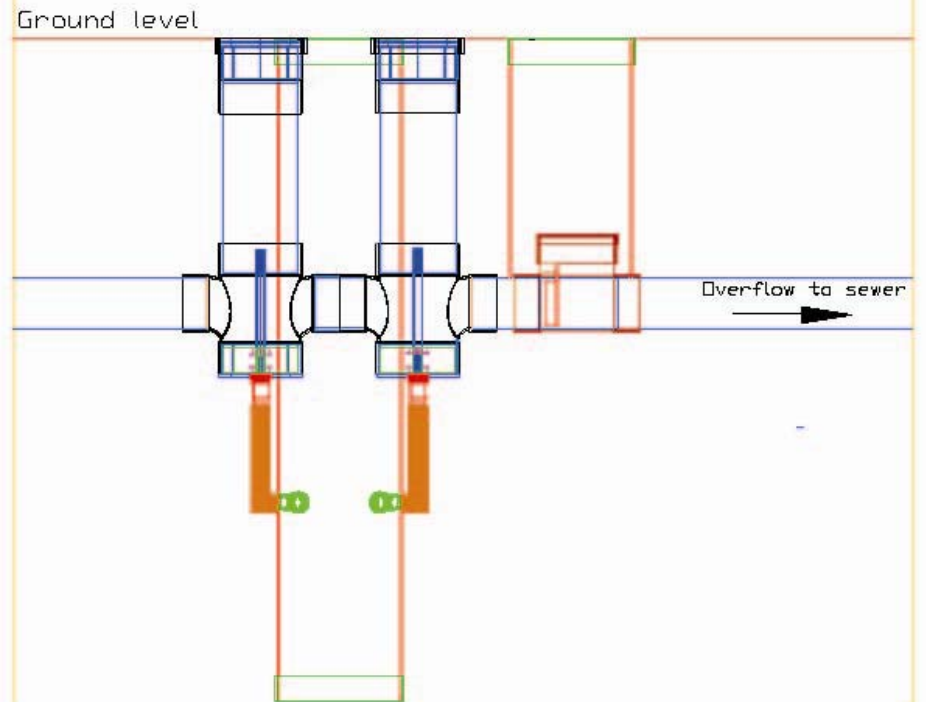
INSTALLATION (step 1)

Step 1/3 Installing Approved reflux Valve
(Make sure to Glue all PVC joints)



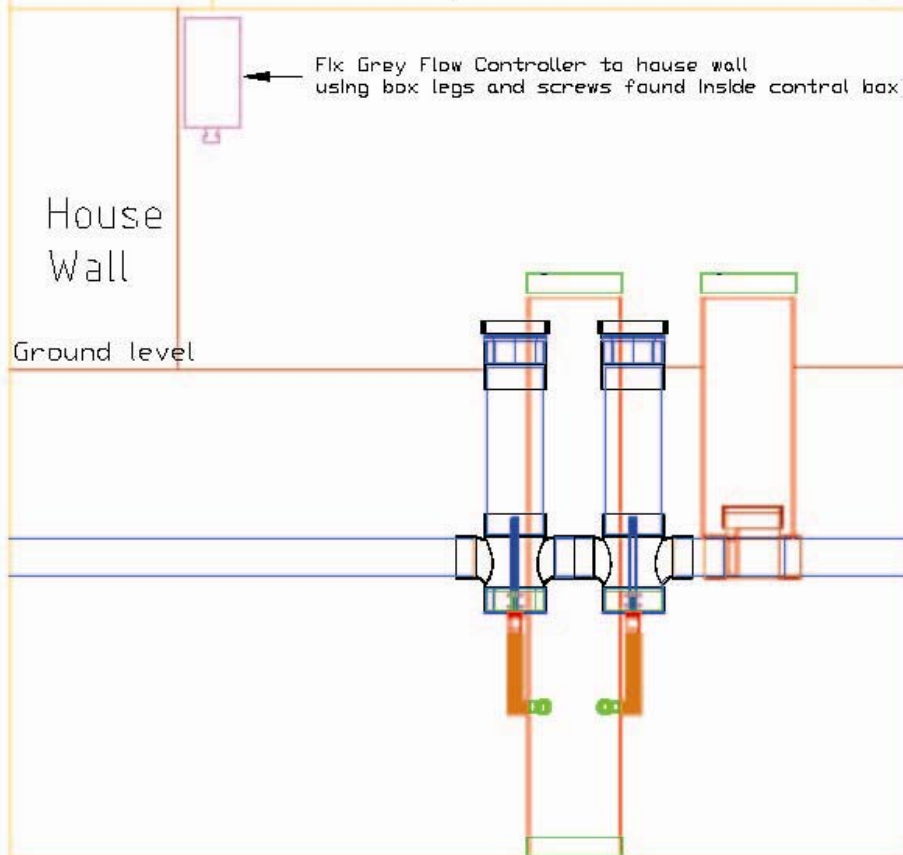
Step 1/4 Adjusting heights to suit Ground level

Cut PVC extension Flush with ground level, or slightly (50 mm) below ground level and then cover with plastic or metal box

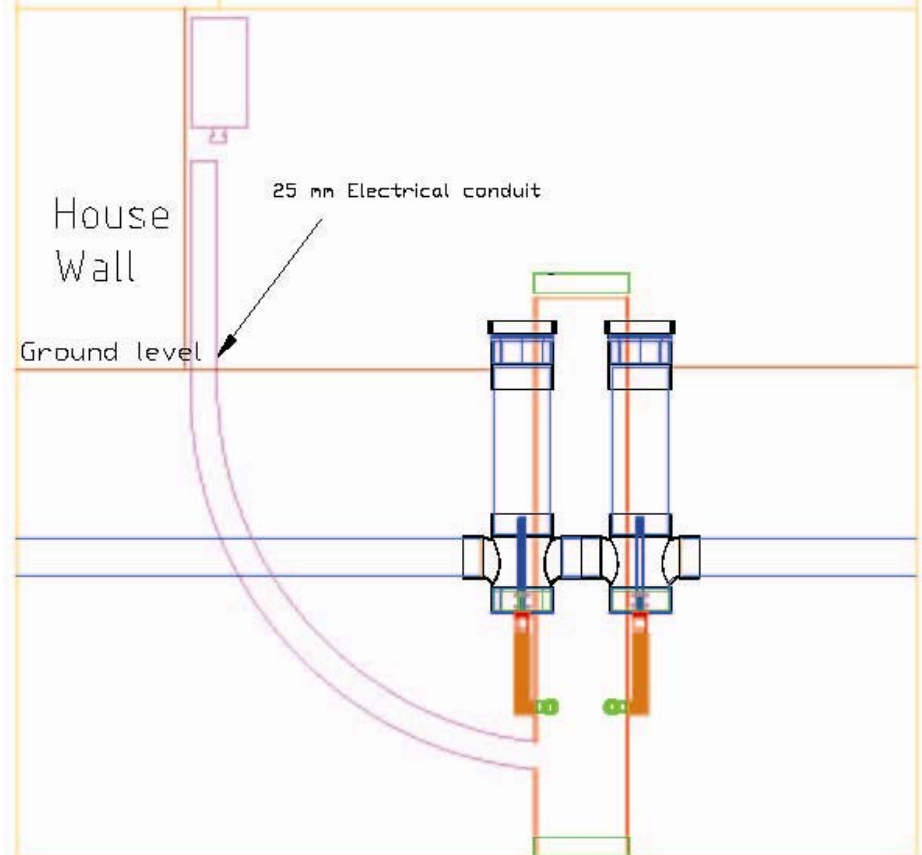


INSTALLATION (step 2)

Step 2/1 Fix Grey Flow Controller unto house wall (close to outdoor GPO)

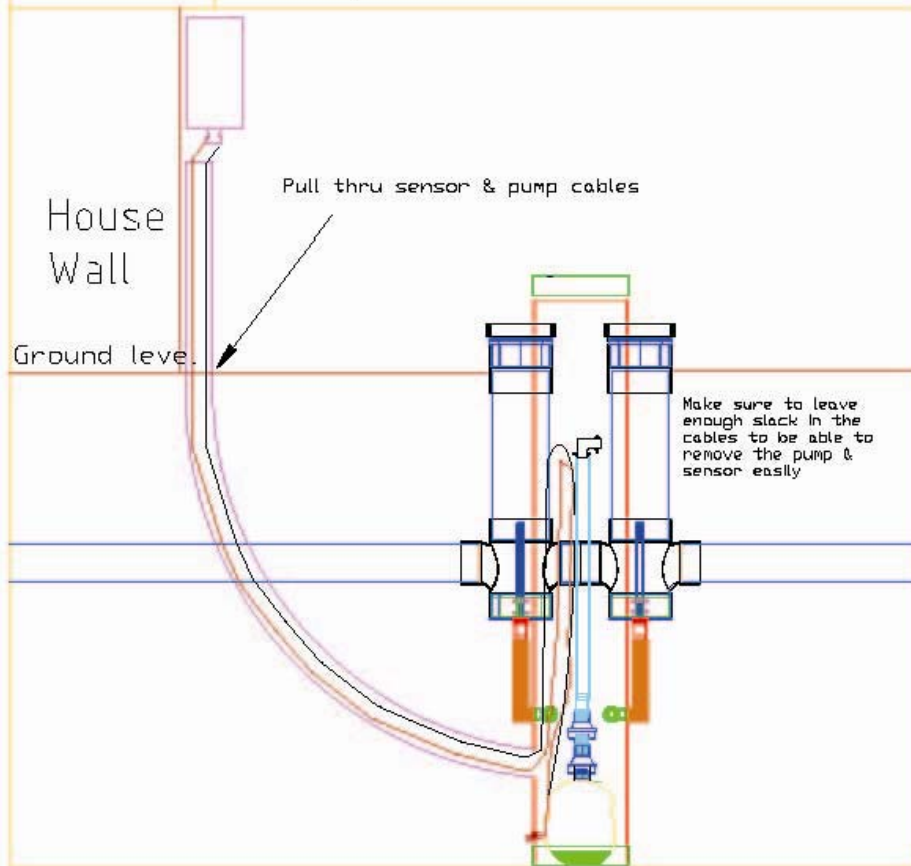


Step 2/2 Install conduit from Pump pit to wall mounted controller (25 mm)



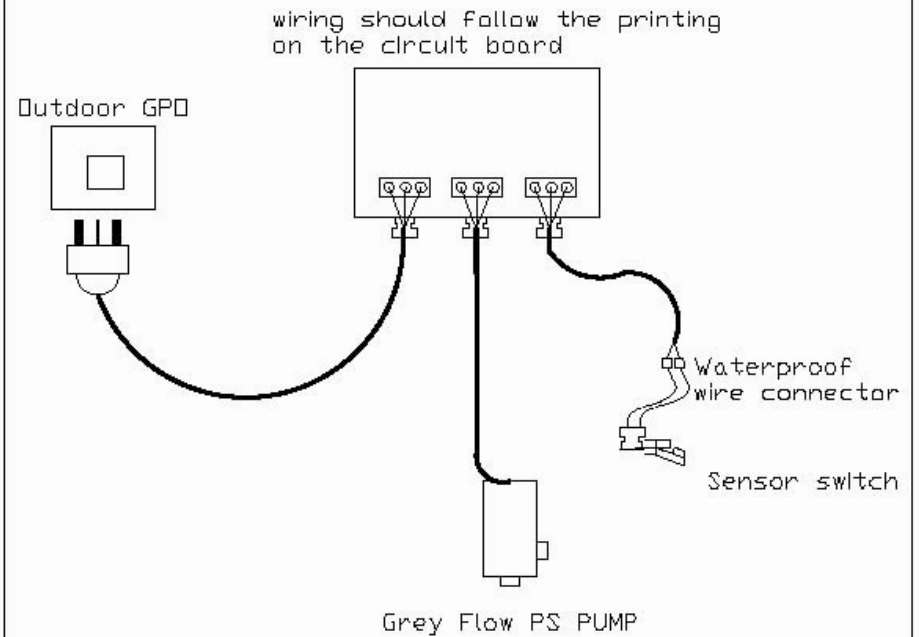
INSTALLATION (step 2)

Step 2/3 Install Pump & sensor and pull wires thru conduit



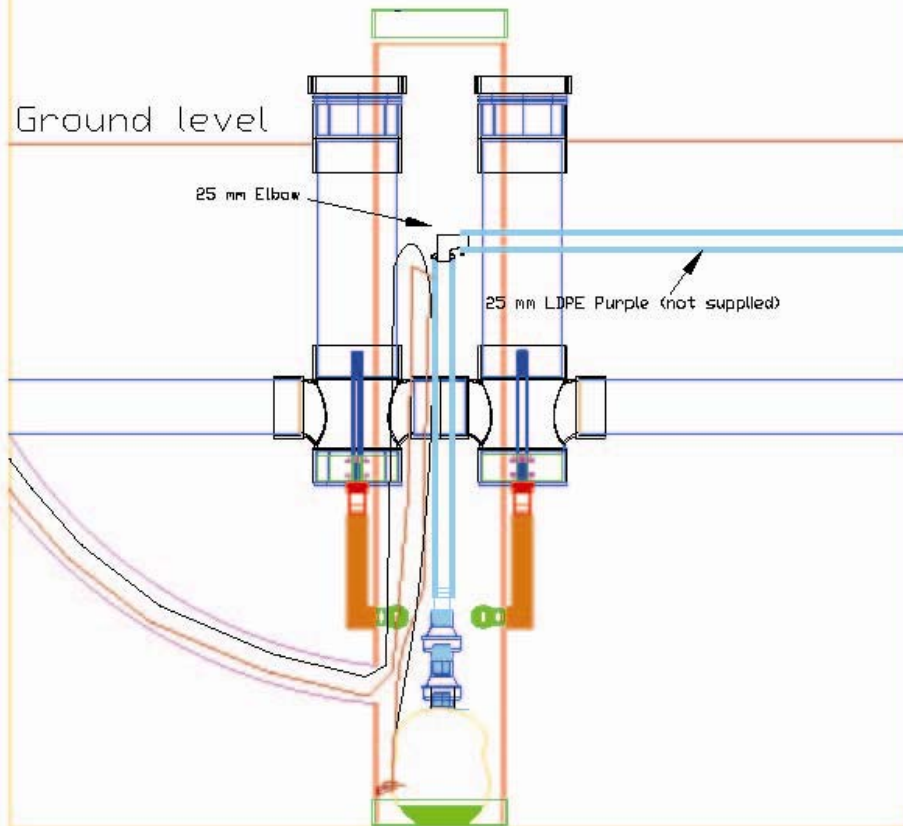
Step 2/4 Grey Flow Electrical details

wiring of the wall mounted controller

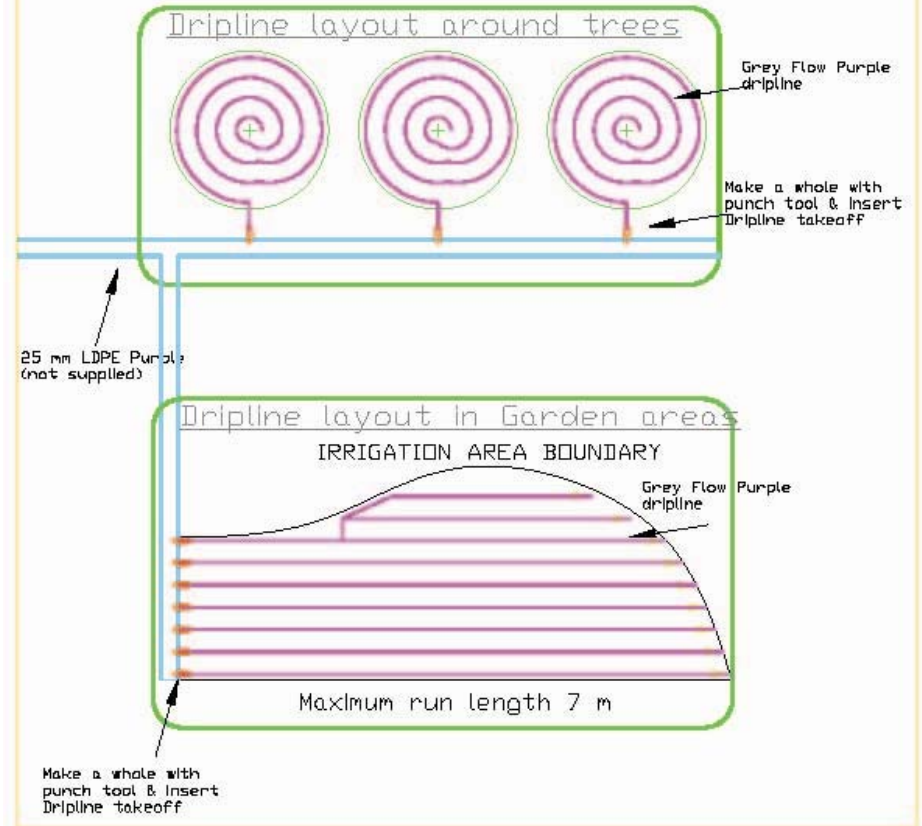


INSTALLATION (step 3)

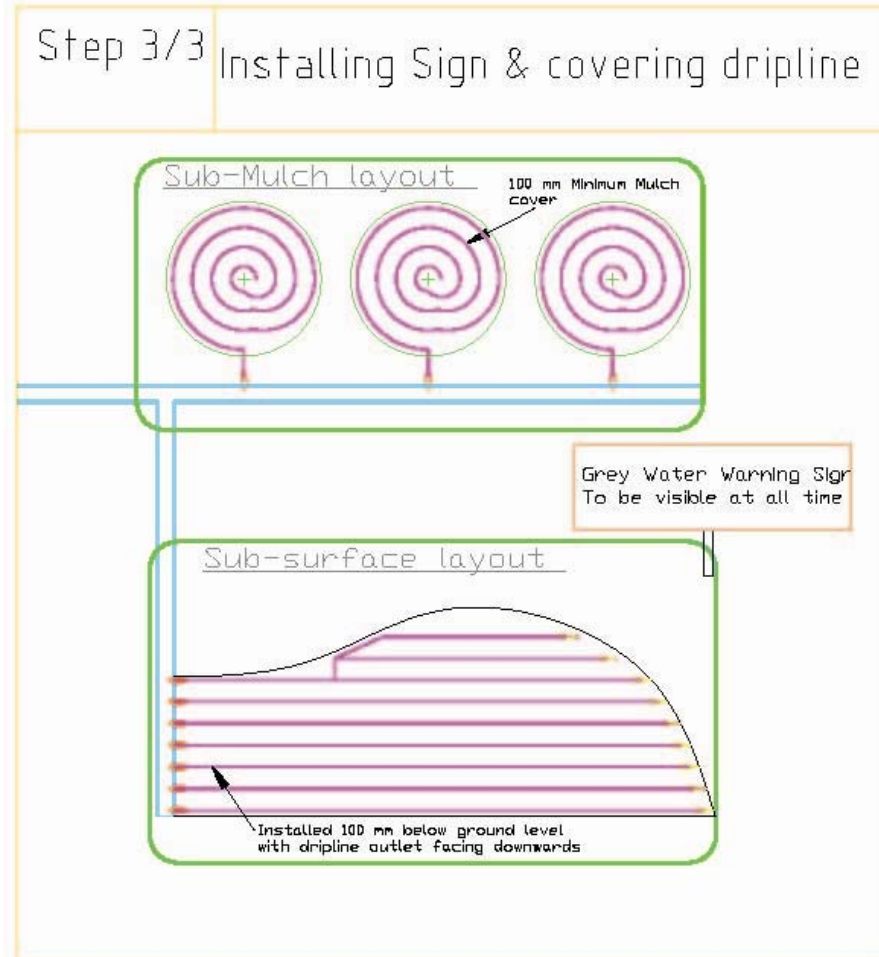
Step 3/1 Connecting Grey Water supply pipe To pump discharge



Step 3/2 Running the supply line to the garden & setting up the dripline



INSTALLATION (step 3)



TROUBLE SHOOTING

A. Normal Operating Sequence

- 1. The Controller led light is off (no power to the controller)**
- 2. The Controller led light is on (No water is detected)**
- 3. The Controller led light is flashing and awaiting for the 45 second time delay before starting the pump (water has been detected and the system is in operating mode)**
- 4. The controller led light is flashing and the pump is on and grey water is discharging through the dripline.**

TROUBLE SHOOTING

B. The controller is connected to power and the led light is off

1. No power at power supply point

Action : check power supply

2. Fuse has blown

Action : Replace Fuse (3.15 amp slow blow fuse available at your local electronic store)

3. Controller is defective.

Action : Contact Grey water supplier or service company

C. The controller led light is on, water is running, the 45 second time delay has lapsed and the pump is still off

1. The plugs are still attached to the filters and do not allow the water to reach the sensor switch

Action : Unscrew and remove plugs from filter base and reinstall filters in their original location

2. The filters are clogged

Action : Clean filters and reinstall filters in their original location

3. The sensor is not connected

Action : Connect sensor wires

5. The sensor is stuck in the open position (small stone or debris can affect the operation of the sensor)

Action : Pull out pump and sensor from sump and clean thoroughly the sensor switch. When you reinstall the pump make sure that the sensor switch is free to move up and down.

6. The sensor is defective

Action : Contact Grey water supplier or service company

TROUBLE SHOOTING

D. The controller led light is flashing but the pump is not running

1. The pump cables are not connected properly
Action : Connect pump wire properly
2. The impeller of the pump does not rotate (large debris and hair can be the cause)
Action : Remove pump from pit, open casing and clear all debris and hair that may be stopping the impeller from turning. Reinstall pump in its original position.
3. The pump is defective
Action : Contact Grey water supplier or service company
4. The controller is defective
Action : Contact Grey water supplier or service company

E. The controller is operating normally, all taps in the house are off, but the pump is turning on and off on regular basis

1. There is a tap leaking in the house
Action : Check if water is flowing into the interceptor trap by looking into the filter chamber. If water is detected find and fix leaky tap inside the house.
2. The check valves on the discharge of the pump are not closing properly
Action : Remove check valve and wash thoroughly all parts

F. The controller is operating normally, water in the house is off, but the pump is on all the time

1. The sensor wires are shorting
Action : Make sure that the sensor switch wires are not shorting
2. The sensor switch is install in the wrong position
Action : Twist the sensor switch so that the white marking on the sensor stem is facing upward.
3. The sensor switch is stuck in the close position.
Action : Pull out pump and sensor from sump and clean thoroughly the sensor switch. When you reinstall the pump make sure that the sensor switch is free to move up and down.
4. The controller is defective
Action : Contact Grey water supplier or service company

MAINTENANCE

To retain the original reliability and performance of the Grey-Flow system the following maintenance steps should be carried out **once a month and not less than every 3 months**:

- a) Open top cover of the interception unit
- b) Remove primary sponge filter and wash thoroughly in a bucket, with a garden hose or in any basin not connected to the dedicated Grey water line.
- c) Open secondary the lid of the secondary filter located in the underground pit, remove lint filter and wash thoroughly with fresh water from the same source of water as in b.
- d) Flush thoroughly the whole system by running tap water through you shower, basin, or trough.
- e) The Grey-flow system is ready to operate again.

Make sure to wash your hands with soap after contact with Grey Water or after handling any part of the Grey-flow system.

MAINTENANCE

The following maintenance steps should be carried out **once a year** (Service contracts are available thru some plumbers and irrigation shops).

- a) Remove and clean primary and secondary sponge filters.
- b) Re-insert the filters (Replace filters may need replacing on an annual basis).
- c) Unscrew the sensor switch from it location on the suction of the pipe and give it a good rinse (the system must be turned off)
- d) While the sensor is off thoroughly flush the suction lines by pouring water through the filters. Make sure to remove all debris and hair
- e) Re-insert and screw back sensor switch (make sure not to change the original positioning and direction of the sensor switch)
- f) Turn on the pump and run water and a little chlorine through the entire system for at least five minutes.
- g) Top up mulch over the Grey-flow dripline to a minimum depth of 100mm (the Grey-Flow Dripline will need to be replaced every 5 to 8 years)

Make sure to wash your hands with soap after contact with Grey Water or after handling any part of the Grey-flow system.

DISCLAIMER

“Whilst Advanced Waste Water Systems Pty Ltd has taken all reasonable opportunity to ensure the accuracy of the content of these guidelines. Advanced Waste Water Systems does not take any responsibility for any changes to the Grey-flow Recycling System or requirements pursuant to the Municipal or Council laws and regulations. Accordingly, each end user is to ensure that prior to purchasing and installing the Grey Flow Recycling System they make full enquiries with all relevant authorities and where appropriate take independent advice. Accordingly, and except to the extent permitted by law, Advance Waste Water Systems does not make any warranties in relation to the information herein provided nor to the fitness for the use of the Grey-Flow Recycling System to your particular needs. The end user hereby acknowledges and confirms that Advance Waste Water System Pty. Ltd. and its associated entities, directors and staff, are not liable or responsible for any loss or damage suffered by the end user of what so nature and kind including but not limited to loss or damage to or arising out of property damage or consequential loss and damage from or caused by the information contained in this guideline or by the use of the Grey-Flow Recycling System”.