



# Greywater for Gardens

*Australia's Leading Greywater Diversion Systems*



## OPERATION:

### SELECTION & OPERATION:

Congratulations on purchasing the Grey Flow US Greywater diversion and reuse system. The Grey Flow US is favored by many local councils and health agencies around Australia due to the fact that it does not have a holding tank and is regarded as a more hygienic and a safer way to divert Greywater into gardens.

The above ground crate, is a housing for the pump (plumbed in an centrifugal configuration) and no grey water is held in it at anytime.

The Grey Flow US was specially developed to avoid potential health risks associated with conventional grey water tanks and storages.

The advantages offered by a straight pumped diversion are as follows:

- Cleaner and healthier environment
- Lower Maintenance (No tank to wash every 6 months)
- No septic water held within the property
- No foul odours
- No mosquito breeding environment
- Instant diversion to sewer Via:
  1. Electrical switch (could be located in laundry) (remote control devices are also available)
  2. Rain Switch
  3. Soil Moisture switch

The Grey Flow US can also be used in conjunction with a soil moisture sensor switch to avoid unhealthy runoff and trigger an automatic shut down of the system when the soil is saturated.

The Grey Flow US can be used in conjunction with a Tee type 3 way valve and flow based valve indexer to achieve water distribution over a number of stations (up to 6).

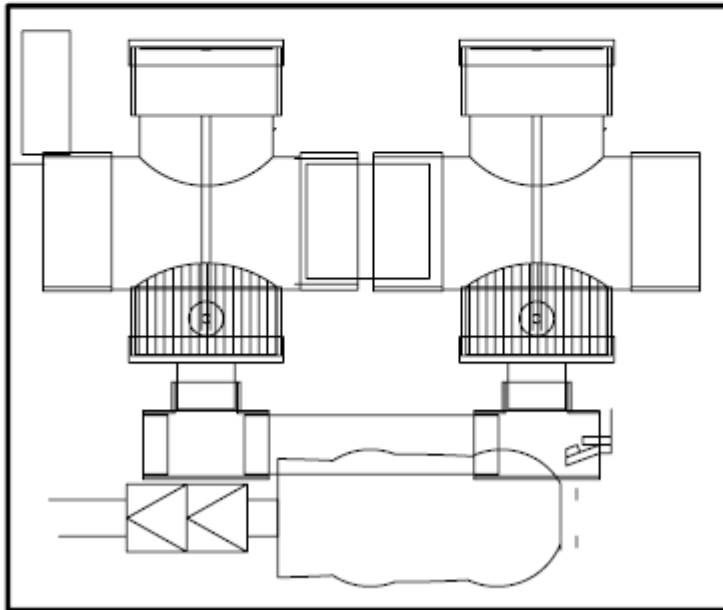
The Standard Grey Flow Dripline (100 m) can be substituted with the Grey Flow Kiss product (200 m) at extra cost for sub-surface lawn applications.

The Grey Flow US system has Watermark certification, is approved for use in all states, and attracts government grey water rebates wherever available.

**INSTALLATION:**

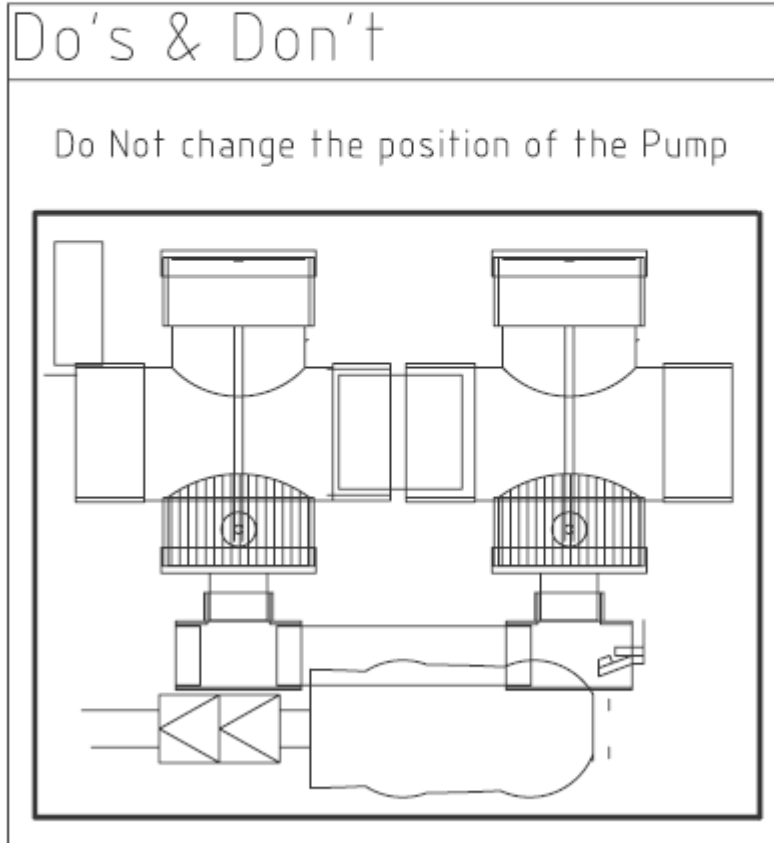
**PARTS LIST: GREY FLOW MODEL US**

Fully assembled dual PVC interceptor, Pump, sensor, pre-wired controller with 5 m long cable. Grey Flow US model 2 comes fully assembled inside a PE-wood crate.



**INSTALLATION:**

**IMPORTANT DO'S AND DON'TS:**

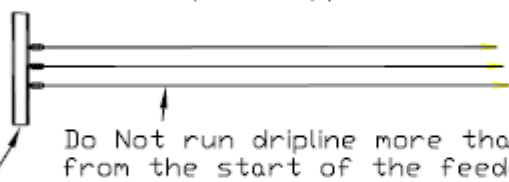


## INSTALLATION:

### IMPORTANT DO'S AND DON'TS:

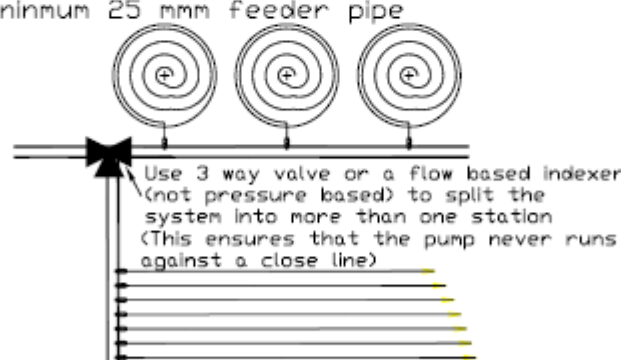
### Do's & Don't

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



Do Not run dripline more than 7 m from the start of the feeder pipe

Use Minimum 25 mm feeder pipe



Use 3 way valve or a flow based indexer (not pressure based) to split the system into more than one station (This ensures that the pump never runs against a close line)

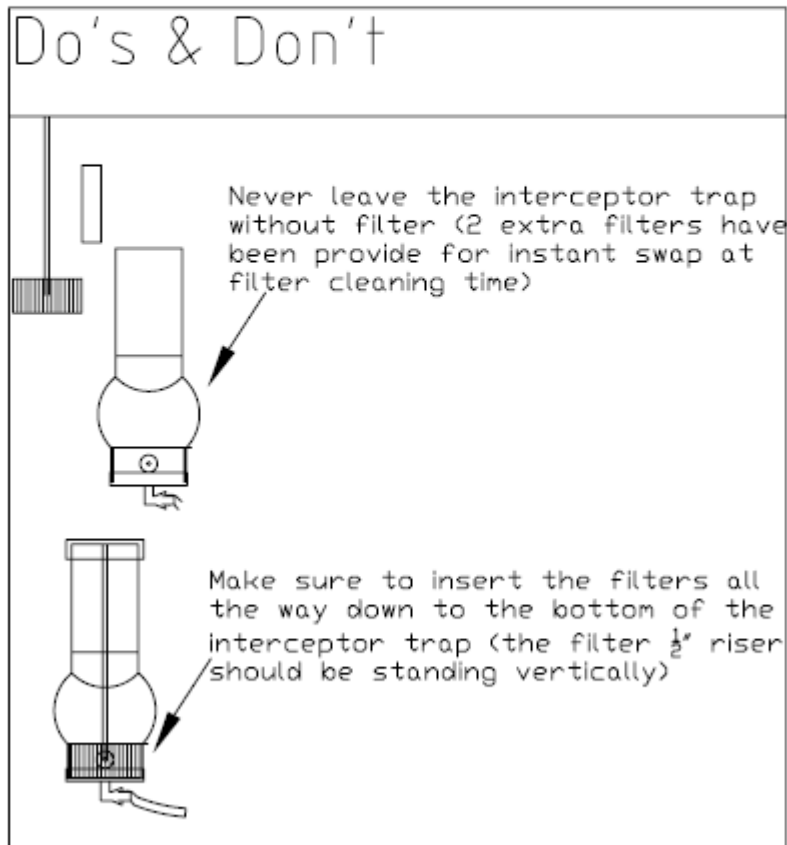
Maximum run length 7 m

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)

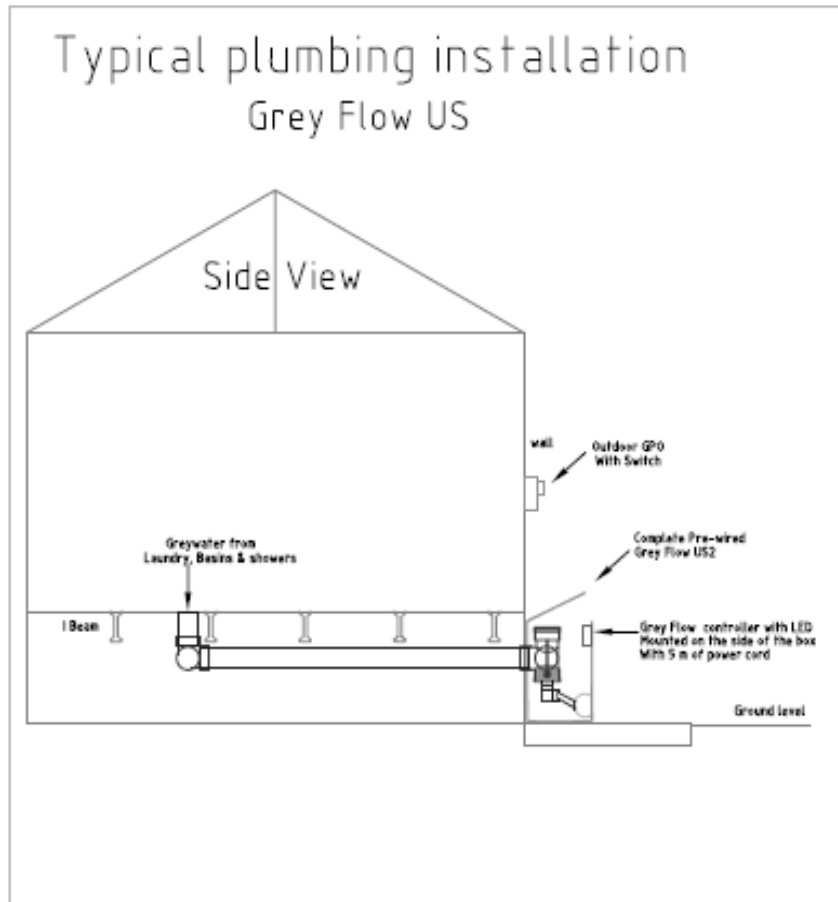
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**INSTALLATION:**

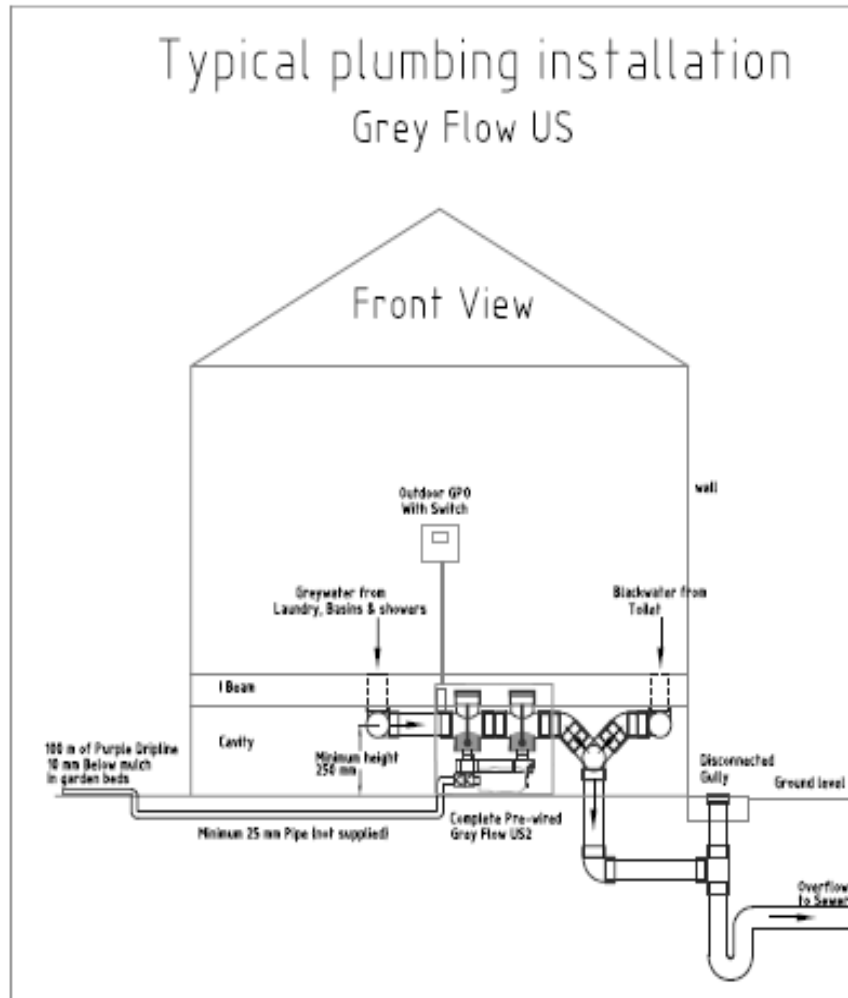
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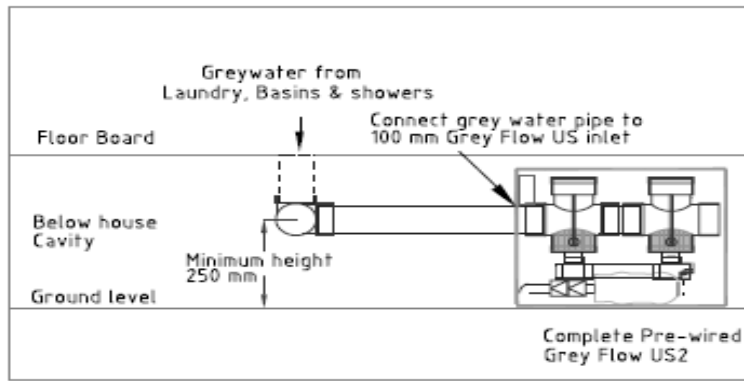
## PLUMBING INSTALLATION:



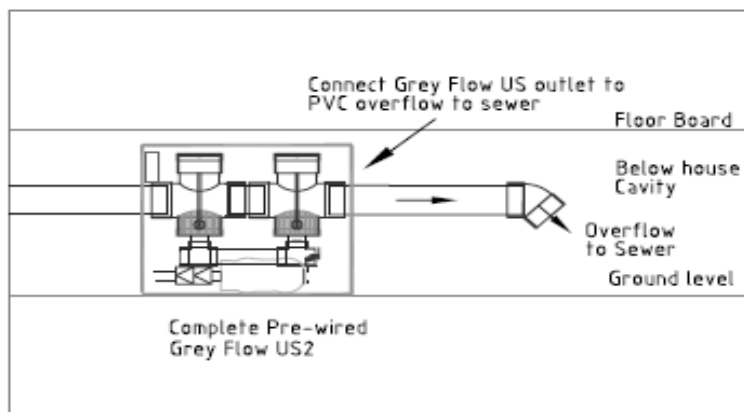
## PLUMBING INSTALLATION:



Step One  
Connect Grey Flow US Inlet to Grey Water pipe



Step Two  
Connect Grey Flow US outlet to sewer overflow

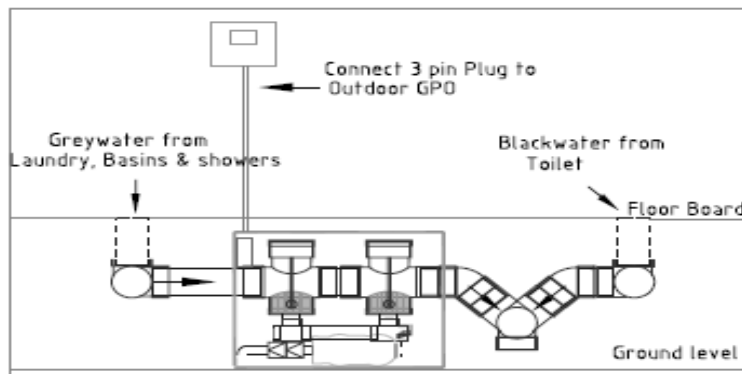


### Step Three

#### Plug in Grey Flow US to Outside GPO

Before switching the power on Unsure:

1. that the outlet of the pump is not capped
2. that there is no stone or debris past the filters in the suction of the pump

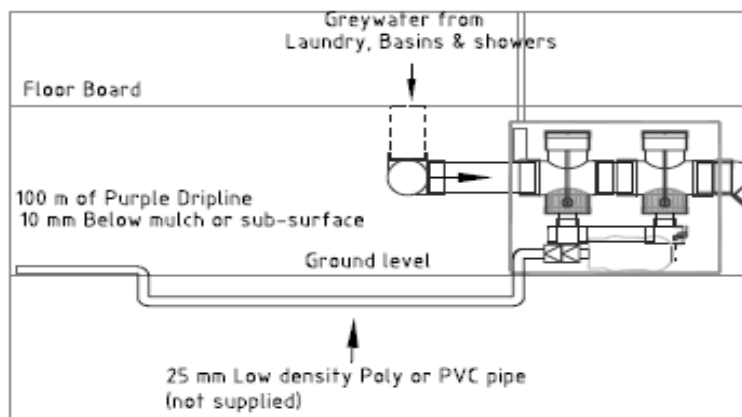


### Step four

#### Install pump discharge Pipe (not supplied) to garden

Before switching the power on Unsure:

1. that the outlet of the pump is not capped
2. that there is no stone or debris past the filters in the suction of the pump



## **TROUBLE SHOOTING GUIDE**

**A. Normal Operating Sequence:**

1. Controller LED light is off (no power to the controller)
2. Controller LED light is on (No water is detected)
3. Controller LED light is flashing and the pump is on (water has been detected and the system is in operating mode)

**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 Greywater supplier or AWWWS Authorised Service Center.

**C. The controller LED light is on, water is running, but the pump is 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
4. The air vent is closed or clogged:  
Action: Open up air vent tubing to air
5. The sensor is stuck in the open position (Debris can affect the operation of the sensor):  
Action: Pull out sensor from holding tee, clean sensor and the inside of the tee and reinstall sensor in original position
6. The sensor is defective:  
Action: Contact Greywater supplier or AWWWS Authorised Service Center.

**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

## TROUBLE SHOOTING GUIDE

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 Greywater supplier or AWWWS Authorised Service Center.

4. The controller is defective:

Action: Contact Greywater supplier or AWWWS Authorised Service Center.

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 sensor from holding tee, clean sensor and the inside of the tee and reinstall sensor in original position

4. The controller is defective:

Action: Contact Greywater supplier or AWWWS Authorised Service Center.

## MAINTENANCE:

### RECOMMENDED MAINTENANCE :

To retain the original reliability and performance of the Grey-Flow US system the following maintenance procedure should be followed. Make sure to wash your hands with soap after contact with Grey Water or after handling any part 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.

The following maintenance steps should be carried out once a year (Service Contracts and Extended Warranty are available through accredited service centers throughout Australia).

- 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) Remove & clean one way valves downstream of the pump.
- G) Turn on the pump and run water and a little chlorine through the entire system for at least five minutes.
- H) 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)

# Greywater for Gardens

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ATS 1000/110  
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