WaterFlow
Bringing Clarity to Wastewater

ECONOTREAT™

Electrical Wiring Guide

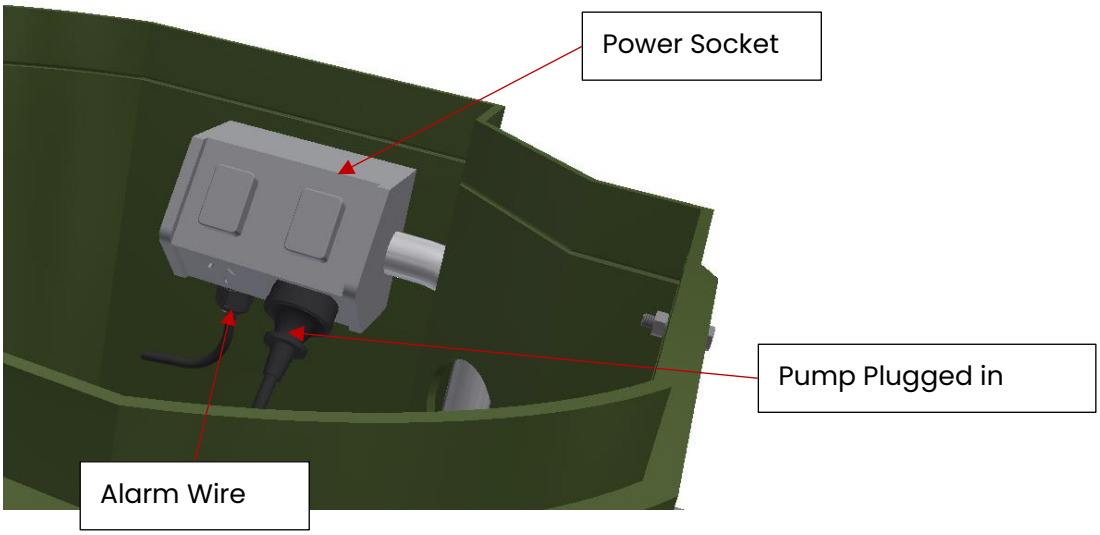
Econotreat Treatment Systems

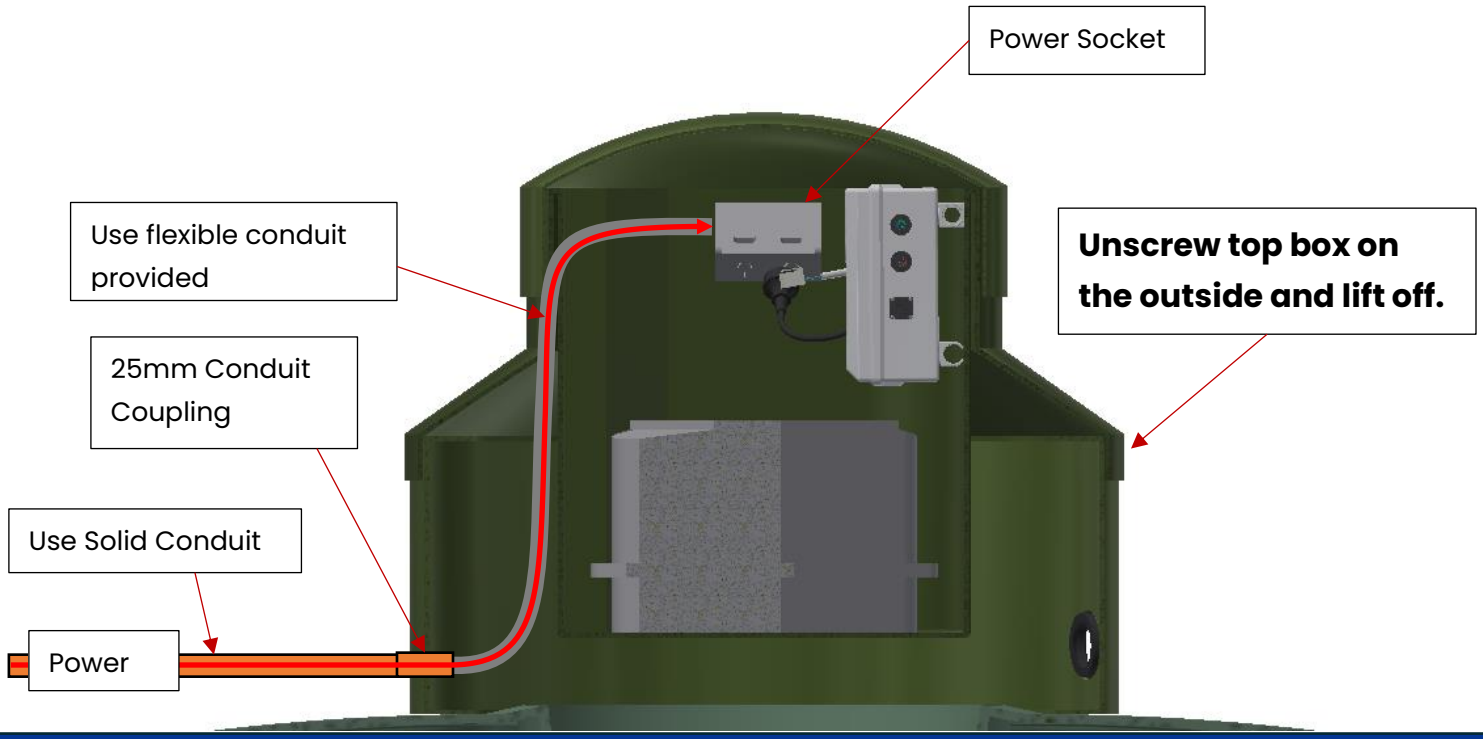
Electrical Wiring Guide

Power Supply (see Pg 4 also for plastic systems)

Use a 2.5mm2 T&E cable for the mains feeder cable. This cable should be protected at the feed end by an MCB rated at 16 Amps and should be installed on its own dedicated circuit.

Mains power supply is terminated in a waterproof outdoor socket, this provides power to the controller. It is found in the control box as pictured below. The power in comes through the side of the tank through a 25mm conduit coupling and will need to be run up through flexible conduit supplied to the power socket. Ensure the conduit is sealed well.





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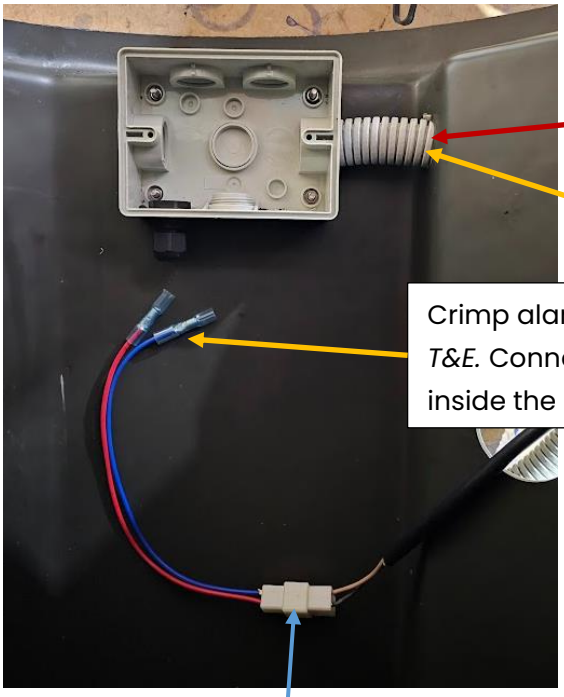
Alarm Wiring

Use a 2.5mm2 T&E cable to carry the two-wire alarm signal from the Treatment unit controller to the Alarm panel which is to be installed inside the building.

Note: that this Alarm panel circuit is an ELV circuit. (24V AC) and has a Muting option as per AS/NZS 1546.3:2008 s.2.4.11. The Mute will automatically reset after 24hrs.

There is a connection on the bottom of the power socket that the alarm panel connects to. The signal is the red/brown wire, and the neutral is the blue wire.

The Alarm Panel can be found in a bag in the controller box.



240V from the house - *2.5mm² T&E*

ELV to the house - *2.5mm² T&E*

Crimp alarm connection here - *2.5mm² T&E.* Connections must **not** be made inside the back of the power socket.

Alarm connection from controller.

Configurator Switch – 1 and 2 both down

R - From brown/red alarm wire connection

E - Not required, can be used to hold spare wire

B - From blue alarm wire connection

Power Source – should be separate circuit to the system.

Legend:

240V Power

ELV connection

Controller plugs

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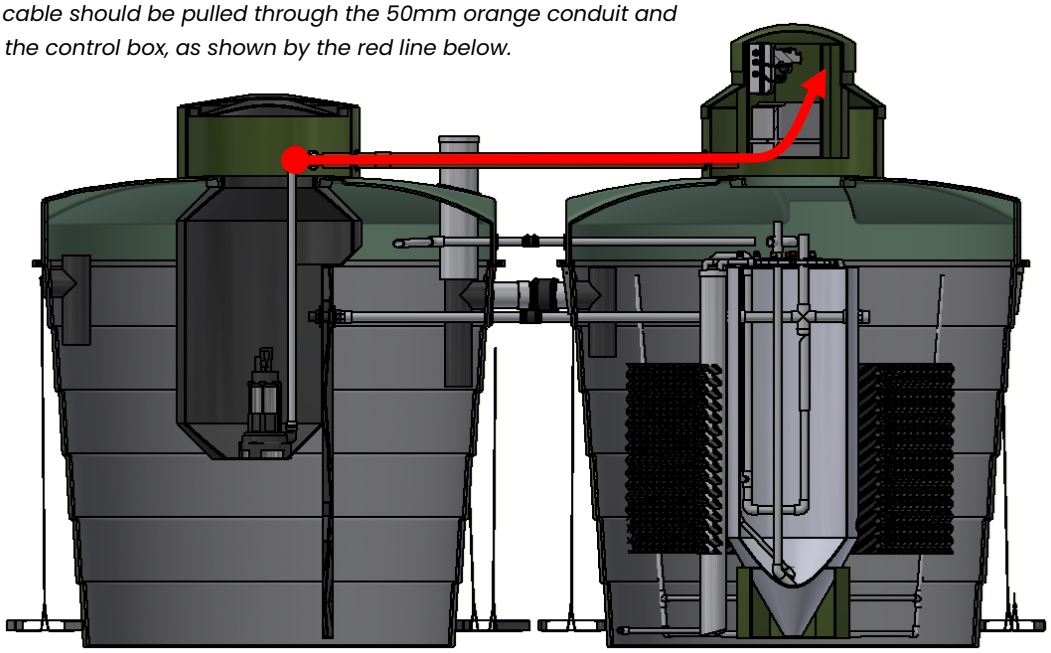
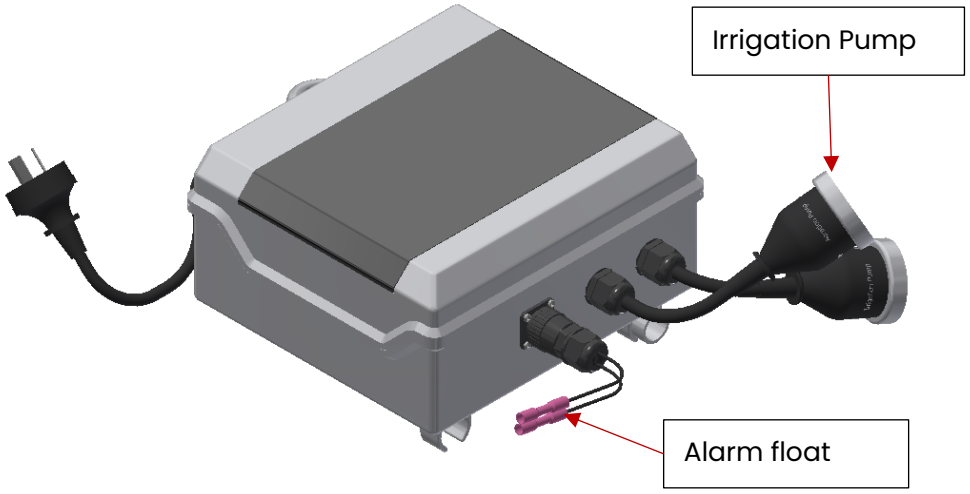
Plastic Systems – extra notes

Plastic Econotreat systems have the pump and high-level float in a separate tank to the one holding the power box. Therefore, the pump and float cords need to be connected to the controller, they should have been fed through to the treatment tank by the installer at the time of installation.

The cable should be pulled through the 50mm orange conduit and into the control box, as shown by the red line below.



The high-level float plug on the controller is set up with crimps, so you will only need to crimp the float cable to the wires on the controller. The pump is simply plugged in the socket labelled "Irrigation



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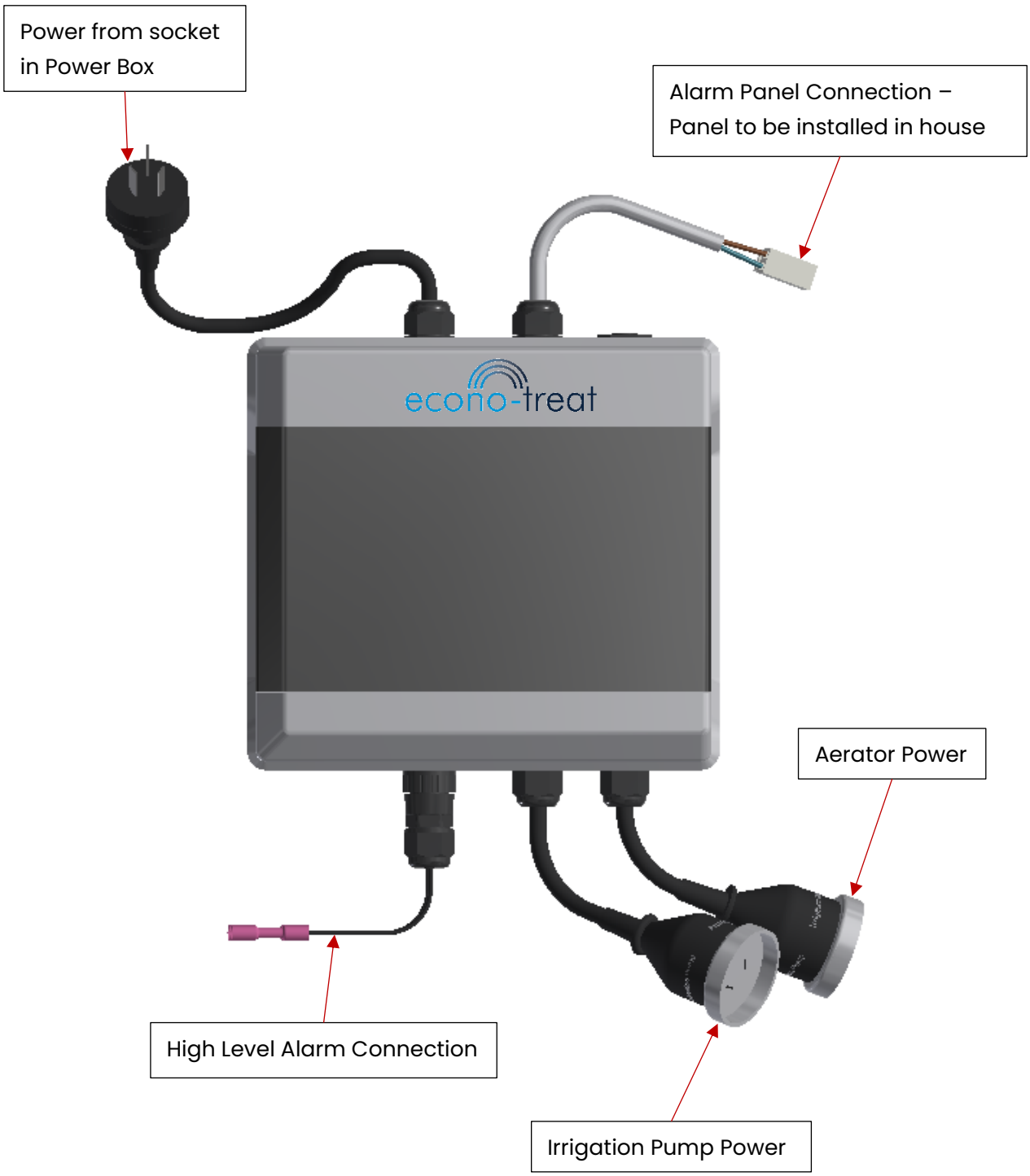
Controller Schematic



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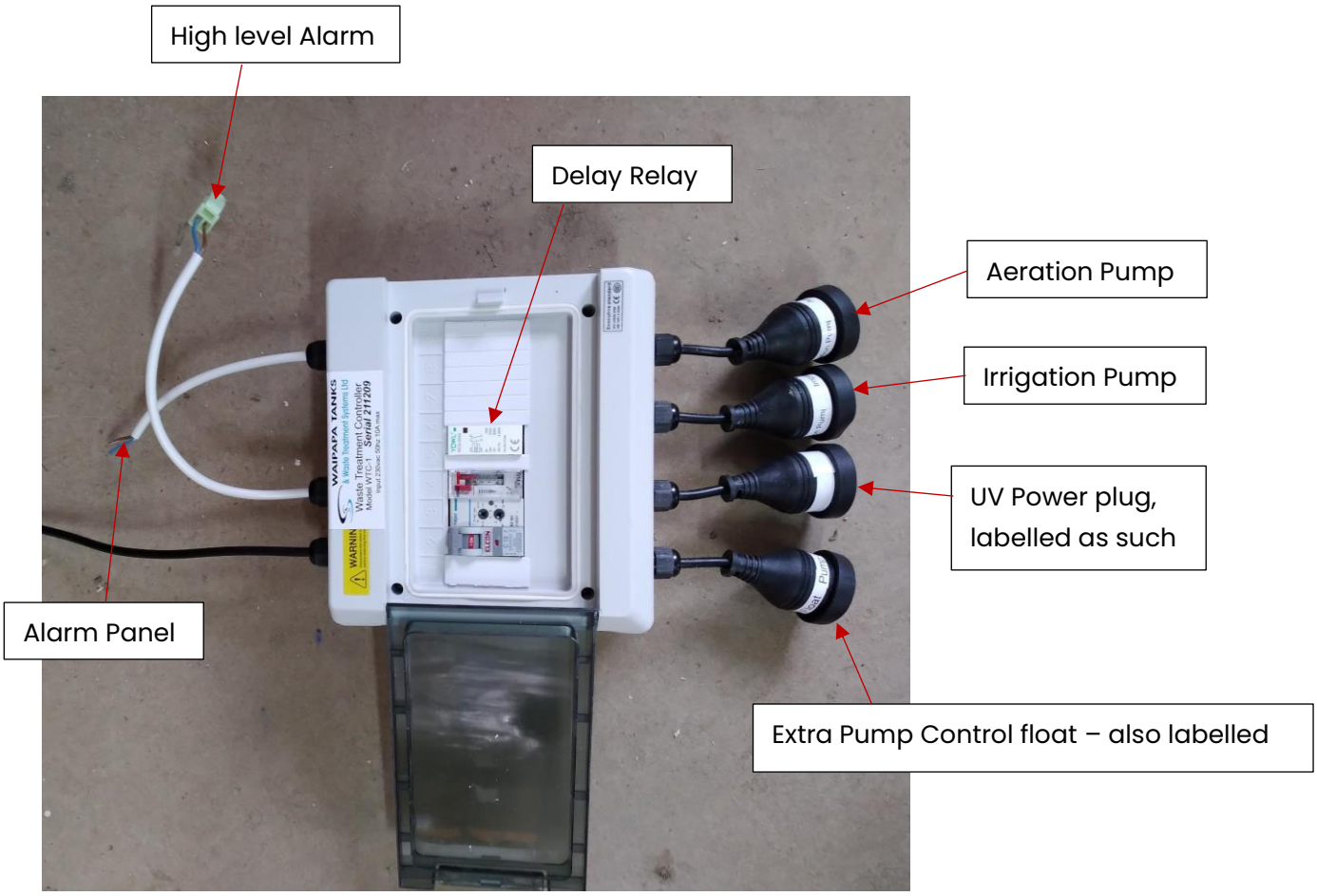
UV Controller – *only for systems with UV treatment*

Systems with further UV disinfection have a different controller, with extra plugs for the UV control.

In a system with UV, the pump is run off a separate control float rather than the inbuilt float on the pump; the inbuilt float will be tied up in a permanently on position. So, there will be two extra 3-pin plugs on the controller: one for the pump control float and one to power the UV.

When the pump control float activates, the controller provides power to the UV unit; after a delay of 60 seconds the pump will start, this gives the UV lamp time to heat up before water passes through the cylinder.



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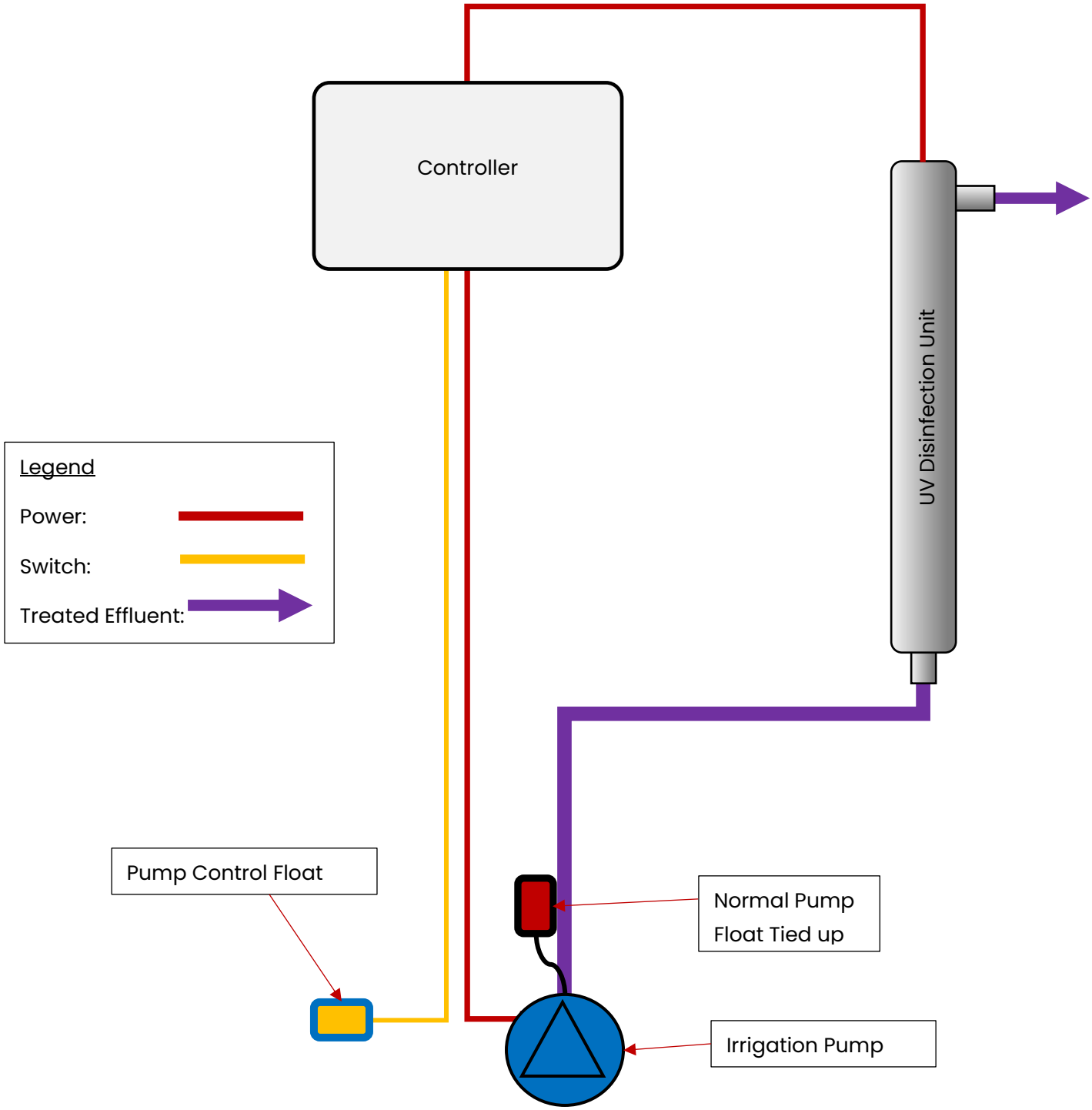
UV Controller Schematic



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