

Q Series Upgrade Adding a Second Pump

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- · This kit allows you to install a second pump within the Q Series controller
- This additional pump can be used for the pumping of liquid feed into the main water supply, OR, for the watering of an additional network
- When feeding plants / pots with a liquid feed, the two pumps do not actually run at the same time, they alternate, 57 seconds watering (primary pump 1), 3 seconds feed (second pump 2)
- Both pumps run at the same time, when watering a second network with the second pump, with the second network configured in a similar fashion to the primary one, using drippers or hose-based products

Kit Contents

- SPVQ pump
- Anti-siphon
- Filter
- · Not included tube which may be needed to reach to water barrel

Installation

- If the system is already in use, turn off and remove the controller from the hanging bracket
- · Remove 5 screws (PH1 screwdriver) from the base of the controller and carefully separate the base from the top
- · If necessary, the solar panel wire can be disconnected to make access easier
- On the base of the controller, remove the Pump 2 protective cap
- · Insert the additional pump into the Pump 2 position / holder
- Plug the power cable in to the PCB connection marked MOTO2, next to the solar panel connection

There are two ways to use the new pumping configuration and the dip switches on the printed circuit board, need to be set accordingly:

Both Pumps Watering

- · Both pumps start and stop at the same time
- A watering network with up to 36 drippers or hose can be attached to EACH pump
- · Each of those networks will apply about half as much water per dripper as a single pump would
- · Ideal where there are large numbers of smaller pots
- Turn dip switch 3 to ON

Automatic Liquid Feeding

- This option allows for liquid feed to be pumped into the main watering supply
- The two pumps alternate, 57 seconds watering (Primary Pump 1) then 3 seconds feed (Second Pump 2)
- · Pump 2 is connected to a separate tank containing suitably diluted feed
- Turn dip switch 3 to ON
- Turn dip switch 4 to ON
- The solar panel should now be connected
- The top and base can be fitted back together
- · Replace the screws, taking care not to over tighten them

Both Pumps Watering Installation

- · Pump 2 now needs to be connected to a water source and a watering network
- Using a suitable length of tube, connect to the inlet port of Pump 2 and take over to the water source, most likely the same as being used for Pump 1
- · Add the inlet filter to the tube for Pump 2 and submerse
- · As per the original installation of Pump 1, fit the anti-siphon device to the outlet port of Pump 2
- Connecting to the other side of the anti-siphon device, Pump 2 can now have a watering network connected to it, to your specific requirements
- Using the hand control module, turn the system back on and set the level to what you require
- · Both pumps will run at the same time
- · After a few days it is advisable to check the watering level and re-set if required

Automatic Liquid Feeding Installation

- · Pump 2 now needs to be connected to the main watering network and also to the liquid feed
- · Using a suitable length of tube, connect to the inlet port of Pump 2 and take over to the liquid feed source
- Add the inlet filter to the tube for Pump 2 and submerse in the liquid feed
- As per the original installation of Pump 1, fit the anti-siphon device to the outlet port of Pump 2
- Connecting to the other side of the anti-siphon device, connect to the outlet pipe from Pump 1, so that the feed is delivered into the dripper line, using a Tee component
- The two pumps alternate, 57 seconds watering (Primary Pump 1) then 3 seconds feed (Second Pump 2)
- Using the hand control module, turn the system back on and set the level to what you require
- Water Runs Out Should the main source water for Pump 1 run out, Pump 2 will not operate, preventing concentrated feed damaging the plants



Liquid Feed Runs Out – Should the liquid feed source for Pump 2 run out, the beeper will beep 3 times per minute for 5 minutes, when Pump 1 starts, the LCD screen will display code 85, hence clearly warning you, that the feed has run out. The alerts will clear / re-set when the feed source is re-filled, and Pump 2 starts pumping feed normally again

Making Up The Feed

- · Feed or supplements can be used provided they are fully soluble
- If supplements containing solids (not too many!) are to be used, the inlet filter should be put into an Irrigatia sand filter (see "How to make an Irrigatia sand filter" on our website)
- · It is good practice to keep the storage tank cool to prevent deterioration
- Pump 2 (the dosage pump) is adding 1/2 litre of feed to 10 litres (a standard watering can) of water, so the stock in the feed tank needs to be up to* 20 x stronger than in the water given to the plants
- Hydroponic feeds, which are designed for continuous application can be used at a maximum of 20 x the recommended rate
- Feeds normally used for intermittent feeding (as with a watering can) should be about 5 x stronger* than the recommended watering can rate, as they are designed to supply feed when clear water is being used most of the time
- * more diluted feeds often work fine, depending on the nutrient available in the compost used

For further information on this or any of the other products in our range, please visit:

irrigatia.com

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