

Unpowered Wicking Bed Controller

User Manual

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Unpowered Wicking Bed Controller

Key features of the Unpowered Wicking Bed Controller

1. Completely automatic
2. No electricity is needed (no batteries, no solar panels, no solenoids, and no electronics)
3. Use for gravity feed or pressurised water supply
4. Adjust the float to achieve the desired gap between the high level and the low level
5. Simple and low tech, and so fewer things to go wrong
6. A single controller can control multiple wicking beds
7. Leave your wicking beds unattended for months on end

Introduction to the Unpowered Wicking Bed Controller

The Unpowered Wicking Bed Controller automatically maintains the water level in the wicking bed between a low level and a high level. The high level should be just below the overflow level for the wicking bed. The gap between the low level and the high level can be set to any value between 27 mm and 60 mm. You can leave your wicking bed unattended for months on end.

The water supply for the Wicking Bed Controller can come from a mains pressure tap or directly from a rainwater tank by gravity feed.

The high level for the wicking bed can be adjusted by moving the controller up or down.

If you have more than one wicking bed you can use the same Unpowered Wicking Bed Controller for all the beds. Connect the controller to one of the beds and connect all the beds together using the wicking bed drain pipes. Because the wicking beds are connected, the water level will be the same in all beds. All wicking beds will have the same high level and low level.

The Unpowered Wicking Bed Controller can be purchased online from the Measured Irrigation website.

Instructions for using the Unpowered Wicking Bed Controller

Connect the water supply to the inlet on the controller (the inlet is the 20mm male thread).

Connect the outlet from the controller to the vertical pipe used to fill the wicking bed.

Connect the drain pipe on the controller to the drain pipe on the wicking bed so that the water level in the controller is always the same as the water level in the wicking bed.

The gap between the high level and the low level in the wicking bed is 27mm plus the gap between the upper float and the lower float. You can adjust the gap between the high level and the low level by adjusting the upper float.

Position the Unpowered Wicking Bed Controller so that the high level is just below the overflow level for the wicking bed.



Float inside Unpowered Wicking Bed Controller



Adjusting the gap between the upper and lower floats



The outlet from the controller is connected to the vertical filling pipe for the wicking bed. The drain pipe on the controller is connected to the drain pipe on the wicking bed.



The water level in the controller is the same as the water level in the wicking bed.