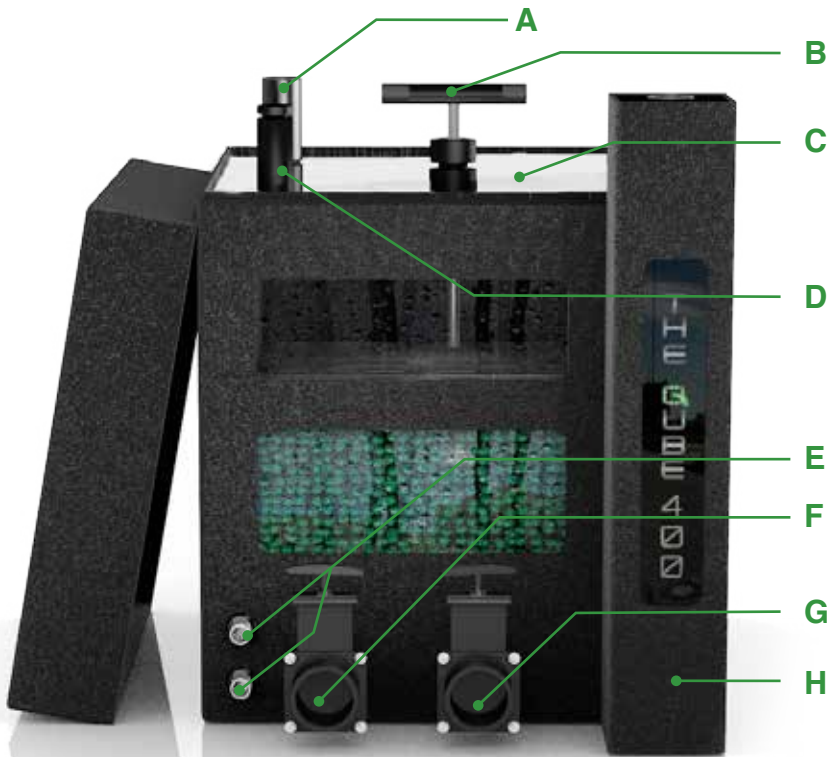


THE QUBE

powered by O.R.B.S

THE QUBE 400 - USER GUIDE



KEY

- A** Mechanical Tri-Valve
- B** Sliding Handle
- C** Top Grill Plate
- D** Manual Air Release Valve
- E** Air Valves
- F** Rear Waste Water Valve
- G** Bio-reactor Waste Valve
- H** Weir Box



KEY

- I** 2" Inlet Valve



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Pump Fed Filling Instructions

- 1 Open the Manual Air Release Valve located on top of the unit. **(D)**
- 2 Switch on the water pump.
- 3 Partially open the 2" Inlet Valve **(I)** (only open the valve enough to allow a small amount of water to enter the unit) this allows trapped air to escape through the Manual Air Release Valve **(D)** and Mechanical Tri-Valve. **(A)**
- 4 When the water level rises up to the Bio-reactor's Top Grill Plate **(C)**, close the Manual Air Release Valve. **(D)**
- 5 Carry on filling the unit until the Mechanical Tri-Valve seals itself **(A)**; this happens when a small white ball appears at the top of the valve.
- 6 Open the 2" Inlet Valve **(I)** until the desired flow rate is achieved.



Pump Fed Cleaning Instructions

- 1 Switch off the main water pump and close the 2" Inlet Valve. **(I)**
- 2 Open the Bio-reactor Waste Water Valve **(G)** (middle valve) allow the water level to drop to just above the Top Grill, **(C)** approximately 10 to 15mm.
- 3 Close the Waste Water Valve. **(G)**
- 4 Open Manual Air Release Valve **(D)** (very important).
- 5 Pull up The Sliding Grill via the handle on top of the unit. **(B)**
- 6 Switch on your air pump (max 70 lpm) and plug the airline into the bottom Air Valve **(E)**; this supplies the Bio-reactor's air cleaning system.
- 7 The Orbs media will start to bubble and rotate; this dislodges debris from the media.
- 8 After two to three minutes open the middle valve **(G)** and partially drain to waste. Allow the water level to drop until the media stops bubbling. Close the valve.
- 9 Unplug the airline **(E)** (it is important to unplug the airline when refilling).
- 10 Refill the Bio-reactor by switching on the pump and partially opening the 2" Inlet Valve **(I)**. When the water level is approximately 10 to 15mm above the grill, close the valve.

- 11 Repeat the cleaning process of the Bio-reactor until the Orbs media are clean.
- 12 Once the Orbs media are clean, drain all the water to waste **(G)** and close the valve.
- 13 Fill the Bio-reactor by turning on the water pump and partially opening the 2" Inlet Valve. **(I)**
Allow the water level to reach the Top Grill Plate **(C)** and close the Manual Air Release Valve. **(D)**
- 14 Carry on filling the unit until the Mechanical Tri-Valve **(A)** seals itself; this happens when a small white ball appears at the top of the valve.
- 15 Open the inlet valve until the desired flow rate is achieved. **(I)**

Rinsing the Bio-Reactor

- 1 Switch off the main water pump and close the Inlet Valve. **(1)**
- 2 Switch off the UV.
- 3 Open the Bio-reactor's Waste Water Valve **(G)** (middle valve) allow the water level to drop to approximately 100mm from the bottom of the unit.
- 4 Close the Waste Water Valve.
- 5 Open the Bio-reactor's Manual Release Valve **(D)** (very important).
- 6 Switch on your Air Pump and plug the airline into the top Air Valve **(E)**. This supplies the Bio-reactor's base cleaning system.
- 7 Any build up of debris will be agitated and can then be removed to waste by opening the Middle Waste Valve. **(G)**
- 8 Switch on the water pump and partially open the 2" Inlet Valve **(I)** fill to the same level as before. Close the valve and switch off the pump.
- 9 Repeat this process until the water is visibly clear.
- 10 Switch on the water pump and partially open the 2" Inlet Valve. **(I)**
- 11 When the water level reaches the Bio-reactor's Top Grill Plate, close the Bio-reactor's Manual Release Valve. **(D)**
- 12 The Mechanical Tri-Valve will seal itself. **(A)**
- 13 Finally open the Inlet Valve until the desired flow rate is achieved. **(I)**

TROUBLESHOOTING

Water returns to the pond before the unit is full.

The slide valve was opened too fast when filling. Opening the valve too much does not allow the air to escape and be replaced by the water.

When cleaning the unit water is returned back to the pond.

The manual air release valves are not open fully. The incoming air is not escaping fast enough, forcing the air downwards and pushing the water back through the return pipe.

Can I fit a valve on the return pipe?

This is not advisable. You could fail to re-open the valve after cleaning. If you then switched on the main pump back pressure would occur and damage would be caused to the unit.

When I switch off the pump, the unit syphon's back to the pond.

When installing the bio-qube units above ground it is necessary to install a vacuum release valve. This valve should be fitted immediately after the pipe exits the unit.

