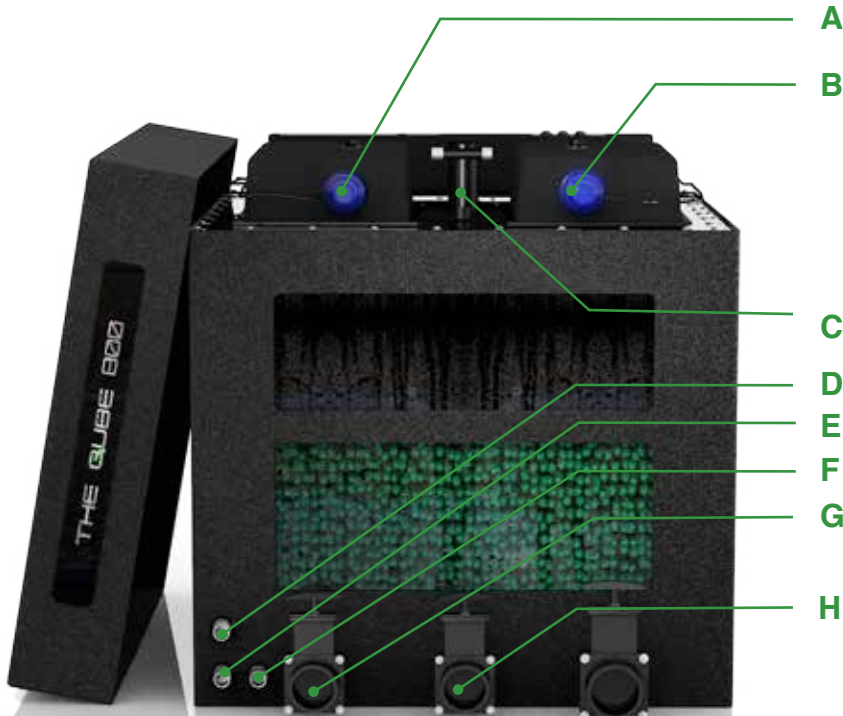


THE QUBE

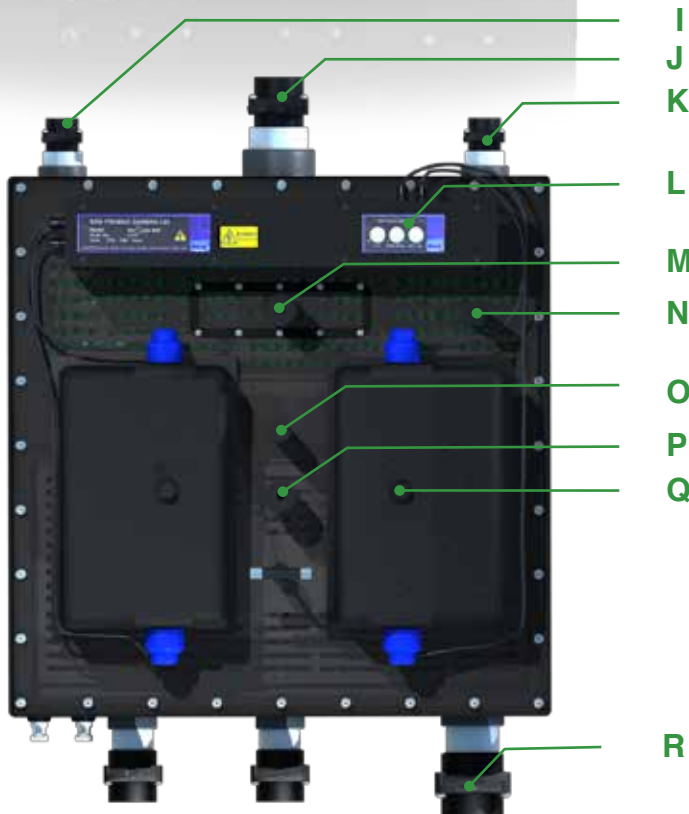
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THE QUBE 800 - USER GUIDE



KEY

- A UV Chamber
- B UV Chamber
- C Sliding Handle
- D Drainage Plate Air Valve
- E Bio-reactor 2 Air Valve
- F Bio-reactor 1 Air Valve
- G Bio-reactor 1 Waste Valve
- H Bio-reactor 2 Waste Valve



KEY

- I Void Space Drainage Valve
- J 4" Inlet Valve
- K Purge Valve
- L Control Switches
- M Bio Reactor 1 Mechanical Tri Valve
- N Bio Reactor 1 Manual Air Valve
- O Bio Reactor 2 Manual Air Valve
- P Bio Reactor 2 Mechanical Air Valve
- Q Air Bleed Valve
- R Return Valve



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Gravity Fed Filling Instructions

- 1 Open the Manual Air Release Valves **(N,O)** located on top of the unit.
- 2 Partially open the 4" Inlet Valve. **(J)**
- 3 When the water level rises up to Bio-reactor one's top grill plate close the rear Manual Air Release Valve. **(N)**
- 4 When the water level rises up to Bio-reactor Two's top grill plate, close the front Manual Air Release Valve. **(O)**
- 5 Carry on filling the unit until the Mechanical Tri-Valves **(M,P)** seal themselves; this happens when a small white ball appears at the top of the valve.
- 6 Open the Air Bleed Valve **(Q)** on top of the UV boxes this expels all the air from inside the unit. It is advisable to do this one unit at a time.
- 7 Fully open the 4" Inlet Valve. **(J)**
- 8 Open the Return Valve (right hand valve) **(R)**
- 9 Switch on the Main Water Pump. **(L)**
- 10 Switch on the UV Lights **(L)**



Gravity Fed Cleaning Instructions

Cleaning Bio-Reactor Two

- 1 Switch off the Main Water Pump **(L)** and close the 4" Inlet Valve **(J)** and Return Valve. **(R)**
- 2 Switch off the UV. **(L)**
- 3 Open Bio-reactor two's Waste Water Valve (middle valve) **(H)** and allow the water to drop to a level just above the top grill's, approximately 10 to 15mm.
- 4 Close the Waste Water Valve. **(H)**
- 5 Open Bio-reactor two's Manual Air Release Valve **(O)** (very important).
- 6 Pull up the Sliding Grill **(C)** via the handle on top of the unit.

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- 7 Switch on your air pump **(L)** (max 90 lpm) plug the airline into the bottom left hand air valve; **(E)** this supplies Bio-reactor two's air cleaning system.
- 8 The Orbs media will start to bubble and rotate; this dislodges debris from the media.
- 9 After two to three minutes, partially drain to waste by allowing the water level to drop until the media stops bubbling.
- 10 Unplug the airline **(E)** (it is important to unplug the airline when refilling).
- 11 Refill Bio-reactor two by partially opening the 4" Inlet Valve. **(J)** When the water level is approximately 10 to 15mm above the grill, close the valve.
- 12 Repeat the cleaning process of Bio-reactor two until the Orbs media are clean. Once you are satisfied they are clean you can fully drain Bio-reactor two to waste **(H)**. Close the waste valve.

Gravity Fed Cleaning Instructions Cleaning Bio-Reactor One

- 1 Open Bio-reactor one's Waste Water Valves **(G)** (left hand valve) and allow the water to drop to a level just above the top grill, approximately 10 to 15mm.
- 2 Close the Waste Valve. **(G)**
- 3 If the water level is too low, partially open the 4" Inlet Valve. **(J)** When the desired level is reached, close the valve.
- 4 Open Bio-reactor one's Manual Air Release Valve **(N)** (very important).
- 5 Switch on your air pump **(L)** (max 90 lpm) plug the airline into the bottom Right hand air valve; **(F)** this supplies Bio-reactor one's air cleaning system.
- 6 The Orbs media will start to bubble and rotate; this dislodges debris from the media.
- 7 After two to three minutes, open the left hand waste valve **(G)** and partially drain to waste by allowing the water level to drop until the media stops bubbling.
- 8 Unplug the airline **(F)** (it is important to unplug the airline when refilling).
- 9 Partially open the 4" Inlet Valve **(J)** and fill to approximately 10 to 15mm above the top grill plate. Close the valve.
- 10 Plug in the airline. **(E)**
- 11 Repeat the cleaning process of Bio-reactor one until the Orbs media are clean.
- 12 Once you are satisfied they are clean you can fully empty Bio-reactor one to waste. **(G)**
- 13 Turn off the Air Pump. **(L)**
- 14 Close the Waste Valve. **(G)**
- 15 Partially open the 4" Inlet Valve. **(J)**

- 16 Switch on the UV. **(L)**
- 17 When the water level reaches Bio-reactor one's top grill plate, close the Manual Air Release Valve. **(N)**
- 18 Carry on filling the unit until the water level reaches Bio-reactor two's top grill plate. Close Bio-reactor Two's Manual Air Release Valve **(O)**. The Mechanical Tri-Valves will seal themselves.
- 19 Push down the Sliding Handle. **(C)**
- 20 Open the Air Bleed Valve **(Q)** on top of the UV boxes. This expels air from inside the unit - it is advisable to do this one unit at a time.
- 21 Fully open the 4" Inlet Valve **(J)** and open the Return Valve. **(R)**
- 22 Switch on the Water Pump. **(L)**

Rinsing Bio-Reactor Two

- 1 Switch off the main Water Pump **(L)** and close the Return Valve. **(R)**
- 2 Switch off the UV. **(L)**
- 3 Open Bio-reactor two Waste Water Valve **(H)** (middle valve) and allow the water level to drop to approximately 100mm from the bottom of the unit
- 4 Close the Waste Water Valve. **(H)**
- 5 Open Bio-reactor two Manual Release Valve **(O)** (very important).
- 6 Switch on your Air Pump **(L)** and plug the airline into the top left hand air valve. **(D)** This supplies Bio-reactor two'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. **(H)**
- 8 Switch on the water pump **(L)** and partially open the 4" Inlet Valve **(J)** 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 **(L)** and partially open the 4" Inlet Valve. **(J)**
- 11 When the water level reaches Bio-reactor two's top grill plate, close Bio-reactor two's Manual Release Valve. **(O)**
- 12 Carry on filling the unit until the water level reaches Bio-reactor two's top grill plate. Close Bio-reactor two's Manual Release Valve. **(O)** The Mechanical Tri-Valves **(M,P)** will seal themselves.
- 13 Open the Air Bleed Valve **(Q)** on top of the UV boxes to expel all the air from inside the unit. It is advisable to do this one UV unit at a time.
- 14 Finally open the Return Valve **(R)** until the desired flow rate is achieved.

