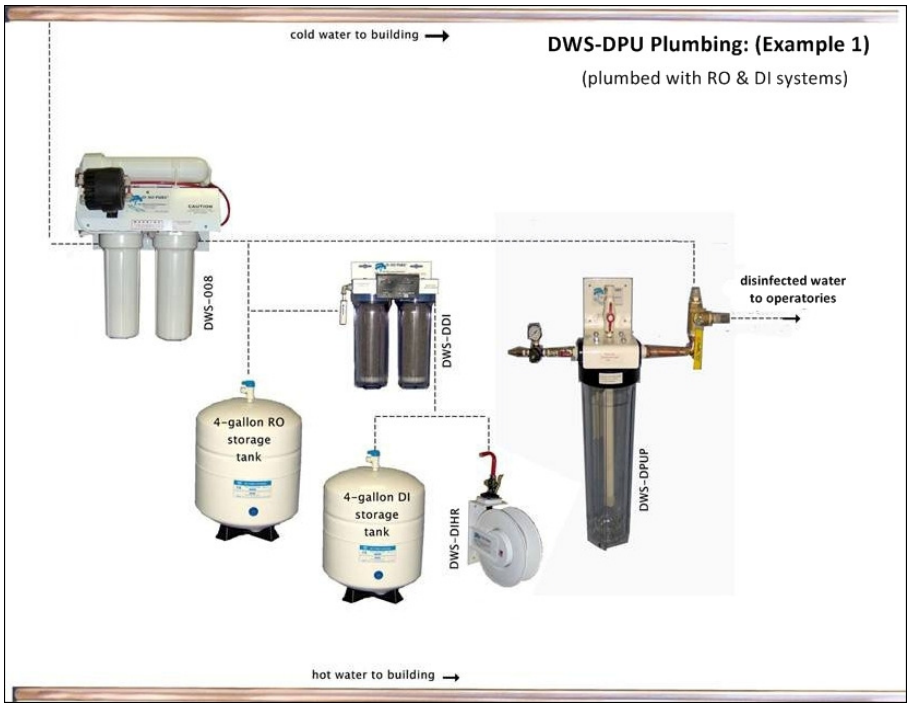
Installation & Instruction Manual
For O-SO Pure's
DWS-DPU (Biofilm Obliterator)

How the DWS-DPU gets plumbed, and why

When installing A **DWS-DPU** in waterlines which it will be sharing with one or more filtration/UV/RO/DI water purification systems, it may be required to get plumbed "downstream" in relation to the other unit(s), as shown in the image below, ***'DWS-DPU PLUMBING: EXAMPLE 1'***. The reason for this is simple: Were it to be plumbed ahead of any such systems and a purge of the dental waterlines was performed out to the chairs or handpieces, in the process of doing so the **DPU** would force disinfection fluid through these purification system(s) first, thus **RUINING** all filtration media, R.O. membranes, or D.I. cartridges that it came into contact with! This would require the costly & immediate replacement of *all such media*. (It would also then become necessary to thoroughly flush every trace of disinfection fluid out each system before safely installing any new filtration media as well.)

***NOTE**: There is one exception which allows the DPU to be plumbed before such systems, however*: If an O-SO Pure **DWS-BPA-PS** or **DWS-BPA-T** bypass (or any similar such bypass manifold) was also ordered and is properly installed, then putting it in bypass-mode before the start of any waterline disinfection purging process will protect any water purification system(s) in the line from being exposed to the cleaning fluid during a purge.

There are step-by-step instructions on how to do a waterline disinfection purge included in this manual.



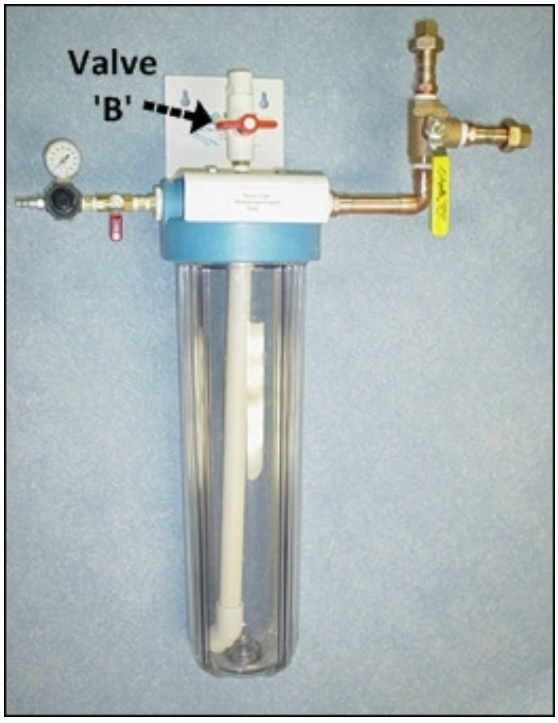
Before you begin

1. The main components to identify include the following:
   - the **DWS-DPU** or **DWS-DPUP**, (depending on which model you have).
   - the **Installation Kit**, which contains:
     1) Spanner Wrench; 1) Blue Funnel; 1) Copper 3-Way Ball Valve Subassembly; 1) Brass Compressed-Air Subassembly; 1) Quick-Disconnect Air Hose for Valve 'A'.

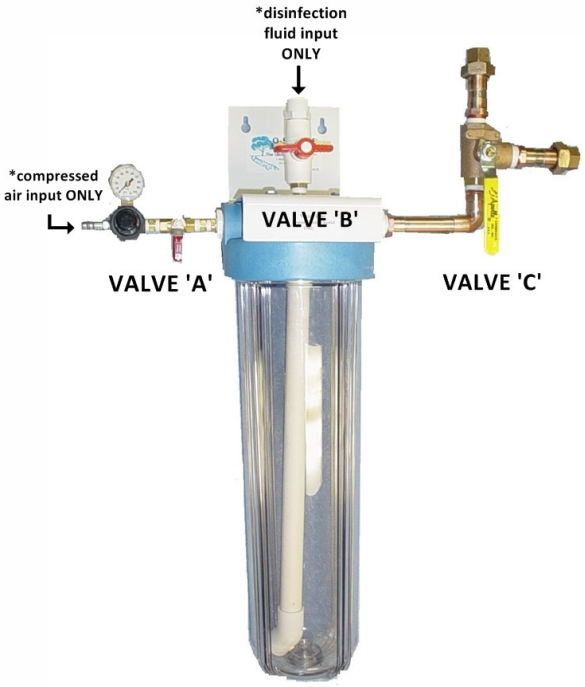
Locate the Biofilm Obliterator (DWS-DPU)

2. Locate the desired location where the Obliterator is to be installed. Many practices install the Obliterator in the equipment room; wherever you choose to mount the unit, you *must* allow for the following clearances around the unit:
   - a minimum of 18" both above and below the unit.
   - a minimum of 6" to both the left and the right sides of the unit (with both subassemblies attached).

NOTE: *It would be a good idea to mount the unit on the wall to where valve 'B' is approx. just below an average-height person's eye level. This will make one part of the purge process a little easier, in that when it's time to fill the clear housing with disinfection liquid into Valve 'B' using the provided blue funnel, your staff or service tech won't have to lift the heavy jugs too high in order to do so.*



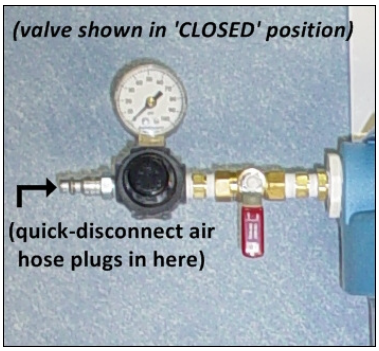
Unit Valve Identification & Functions



DWS-DPU Valve Identification

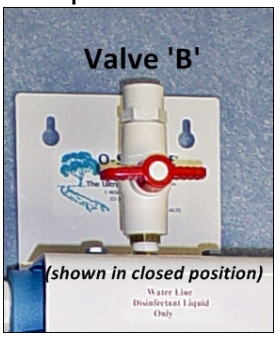
VALVE 'A'

This is the open/close input valve for the practice's air compressor.



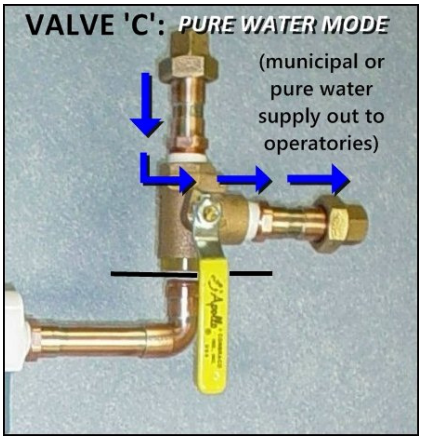
VALVE 'B'

When open, this valve is the port through which your selected waterline disinfection cleaning solution is manually poured into the 20" clear housing, using the blue funnel provided.

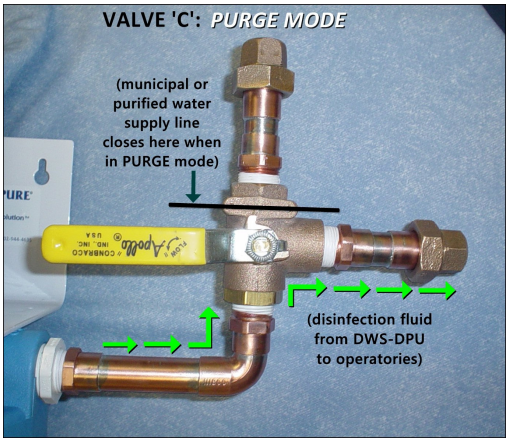


VALVE 'C'

This valve switches the practice's plumbing between purified water and the Obilterator's reservoir.



When in **PURE WATER MODE** pure water is being sent from the O-SO PURE system out to the operatories. In this mode, the DPU is isolated from the waterlines altogether.



When in **PURGE MODE**, the O-SO PURE system is isolated from the waterlines, and disinfection fluid from the DPU can flow from the unit out to the operatories.

DWS-DPU DISINFECTION PROCEDURE

REMOVE WATER FROM ATTACHED PLUMBING USING COMPRESSED AIR

- Turn Valve 'C' to **PURGE MODE** to open up the Obliterator to the dental waterlines. A little water may drain into the Obliterator's clear housing while you are turning the handle.
- Close Valve 'B' (horizontal position).
- If not already in place, connect supplied red air hose to input of Valve 'A'. Open Valve 'A' (horizontal position).
- Use the air pressure from the compressor (40 lbs.) to purge all water from the waterlines, starting by opening the hand-piece, valve or faucet furthest away from the Obliterator. Do this with every hand-piece, valve or faucet, working your way back to the Obliterator. All connected plumbing should be free of water now. When finished, close Valve 'A' (vertical position).

FILL ATTACHED PLUMBING WITH DENTAL DISINFECTANT

- Open Valve 'B' (vertical position). Insert the blue funnel into the liquid fill port at the top of the valve. Fill the Obliterator's clear sump with 1-1/2 gallons (6 liters) of the disinfection liquid. Close Valve 'B' (horizontal position).
- Open Valve 'A'. Much like before, open up the farthest hand-piece, valve, or faucet away to the Obliterator and allow the disinfection liquid to flow. Once the disinfection fluid appears, close that hand-piece, valve or faucet and move on to the next closest one to the Obliterator, repeating this process until there is solution all the way out to every hand-piece, valve or faucet.
- Allow the disinfection fluid to stand in the waterlines overnight (for maximum effectiveness, a period of at least 8 hours).
- Close Valve 'A'

REMOVE DISINFECTANT FROM ATTACHED PLUMBING USING COMPRESSED AIR

- Open Valve 'A'.
- Use the air pressure from the compressor (40 lbs.) to purge all disinfectant from the waterlines, starting by opening the hand-piece, valve or faucet furthest away from the Obliterator. Do this with every hand-piece, valve or faucet, working your way back to the Obliterator. All connected plumbing should be free of disinfectant now. When finished, close Valve 'A' (vertical position).

- Turn Valve 'C' to **PURE WATER MODE** (vertical position).
- For the last time, open up the farthest hand-piece, valve, or faucet furthest to the Obliterator and allow pure water to flow. *Be certain to allow the pure water to run long enough to ensure that ALL disinfection fluid has been flushed from the lines and the hand-pieces*. Repeat this process with every hand-piece, valve or faucet.