

Atlantium HOD provides an enhanced effective state of the art technology to reduce trace of organics and microbial contamination for ultrapure water

Atlantium HOD Systems perform the following function in **Semiconductors** applications:

- Microbial disinfection
- TOC reduction
- Chlorine and chloramines
- Ozone destruction reduction

For these reasons, more manufacturers around the world trust Atlantium for UV systems, application, assistance and support.

Atlantium HOD Semiconductor targeted UV System:

- RS-104
- RZ-104-11

Figure 1 : HOD system



Semiconductors UV Applications

- **Disinfection** - Most common usage of UV light in water treatment. Typical locations of UV system would be Post-carbon filter, pre-RO and post-RO (reverse osmosis).
- **TOC Reduction** – Atlantium HOD UV systems are used for reduction of organics e.r TOC (total organic carbon) . Reduction of TOC is accomplished by incorporating a

185nm UV system appropriately designed and sized as well as strategically located in conjunction with other equipment

- **Chlorine/Chloramines Destruction** - Chlorine and have undesirable effects on the scaling of membrane filtration & RO. Atlantium HOD can reduce Chlorine or eliminate usage of Chlorine all together
- **Ozone Destruction** - Ozone is commonly used in the pre-treatment area of a water system, as well as for sanitizing process and re-circulating systems , Atlantium HOD systems can effectively reduce Ozone levels during the process

Typical UV Installation Schematic

