

Outback Water offers a line of specialty UV purification systems to address difficult water treatment applications. The LBH5-251-UVT-OB system is designed to handle water with low Ultra Violet Transmittance (UVT). UV percent transmittance is a measurement of the UV light and its ability to penetrate through the water being treated. The less light transmitted or passed through the water, the lower the percentage transmittance. Since the effectiveness of a UV disinfection system depends upon the UV dose, low UV transmittance has a major negative impact on the effectiveness of a 'standard' systems' ability to eliminate microbiological contamination. The Low UVT systems boost the dose to compensate for the low transmittance conditions.

System Warranty

- Reactor Chamber: ten (10) year limited warranty
- Electronics: three (3) year limited warranty
- UV Lamps: one (1) year limited warranty
- Quartz Sleeve: one (1) year limited warranty

System Features

1. Flow rate 10 gallons per minute based on standard of 30 mJ/cm² at 50% UVT
 2. Removal of greater than 99.99% bacteria, cysts, virus, and deactivation of... [UV Dosage Requirements](#).
 3. Universal power supply 90—265 Volt and 50/60 Hertz.
 4. High Output 254 nm UV lamp manufactured with proprietary Long Life +coating ensures a consistent UV output.
 5. The most environmentally friendly UV lamps on the market - each lamp containing less than 10mg of mercury (including amalgam) which is up to 30% less than leading competitors.
 6. Lamps provide the required output over the entire 10,000 hour life span.
 7. Axial flow reactor chambers allow easy lamp/sleeve service without the need to drain the water from the chamber.
 8. Minimum UVT of 50%.
 9. Polished 316L stainless steel reactor chamber.
 10. Reactor chamber manufactured to ASME pressure vessel standards.
 11. Color user interface with full diagnostics and warning indicators including QR codes.
 12. Splash proof controller with constant current electronic ballast.
 13. 1" MNPT connections for quick and easy installation.
 14. Open end quartz sleeve for optimum operating temperature.
 15. True gland seal retaining nut with positive stop.
 16. Quick ¼" turn of gland nut making lamp and sleeve series quick and easy.
 17. IEP (infinite expandability port) for future upgrades and options.
 18. Sensor port for future up-grades. Comes standard with integral visual glow plug.
 19. 254 nm Teflon based UV sensor with 4-20 mA output capabilities and solenoid ready capabilities (optional).
 20. Parameters: Hardness <7 gpg, Iron <.3 ppm, Manganese <.5 ppm, Turbidity <1 NTU, Tannins < .1ppm
- CRITICAL:** ALL UV systems MUST be pretreated with a 5 micron filter to ensure maximum efficiency of the system. DO NOT: connect plastic pipe or tubing directly to the UV system. The UV light can, over time, cause the plastic connection to become fragile and break down. It is recommended to make connections using Dielectric Unions. This makes for a connection of stainless steel to copper which will not corrode over time.