

MODEL PL-UV1

BASIC PERFORMANCE CRITERIA MODEL PL-UV1 DISINFECTION SYSTEM

FLOW RATES - 100 GPD through 8,640 GPD (Gravity flow only)

**** Required influent characteristics:**

100 GPD - 4,320 GPD (3 GPM) with a 30 mg/L BOD and 30 mg/L SS

4,321 GPD - 8,640 GPD (6 GPM) with a 10 mg/L BOD and 10 mg/l SS

UV DOSAGE - The Model PL-UV1 disinfection system provides a UV dose greater than 40,000 microwatt-sec per square cm at 254 nanometers.

TRANSMISSIVITY - The Model PL-UV1 disinfection system provides a transmissivity quality of 65%

BALLAST LOCATION - The ballast is located safely inside the durable NEMA 4X electrical enclosure for protection and long-life.

UV LAMP PROTECTION - The long-life bulb is encased within a transparent quartz sleeve to isolate the bulb from the flow stream.

ALARM - A current sensing circuit automatically monitors performance of the UV bulb and provides constant assurance of proper operation. The system can also be monitored externally.

EXPECTED PERFORMANCE - The Model PL-UV1 disinfection system will reduce fecal coliform levels by 3-Logs or 99%.

OPTIMUM LAMP OPERATION TEMPERATURE - The Model PL-UV1 disinfection system provides lamp operation temperature in the range of 104 - 120 degrees Fahrenheit.

DIMENSION - There is a 1 inch distance from the tube to the chamber wall of the Model PL-UV1 disinfection system.

HOUSING - The system is contained within an ABS housing that is carbon-impregnated for maximum durability. The internal subassembly can easily be removed for cleaning of the quartz sleeve.