



Technical Support Working Group Technical Brief Critical Facility Water Protection System

Background: In response to a requirement from the State Department to develop a small system capable of providing safe drinking water to Embassies, the TSWG sponsored development of the Critical Facility Water Protection System. The system was deployed, tested and verified and is now being commercialized as the HydroSecure™ for use in protection of mission critical, high security facilities and personnel in applications which include buildings, eating facilities, schools, military mess halls, hospital emergency rooms, and other applications that need a continuous supply of pure water where sources may be contaminated or insecure..

System Features

- Defeats a wide range of contaminants including industrial and agricultural chemicals, hallucinogens, and live chemical and biological warfare agents
- Meets or exceeds safe drinking water standards, even when challenged with extreme levels of contamination
- Utilizes proven technologies uniquely configured with specialized, proprietary components
- Allows installation in new or existing facilities where access and space may be limited and dimensionally constrained
- Includes fully integrated instrumentation, sensors, and controls
- Provides rugged construction for low maintenance, streamlined design for ease of operations and durability for long service life to support deployment in remote or challenging operating environments
- Offers automated operation, remote monitoring and management, continuous data logging and trend analysis support services
- Adapts in scale to a wide range of water demand levels
- Other configurations available to meet specialized water needs include:
 - mobile rapid emergency deployment
 - high purity process water
 - medical grade water

System Prototype Demonstrated Characteristics

Production Capacity - 10 - 15 gpm
Module Dimensions - 5'w X 7'h X 10'l
Total Dry Weight - 5100 lbs.
Power Requirements - 15 kW
Source Water - Dependent on configuration and features requested by user.

The characteristics listed above are for the prototype system designed and built for TSWG. Production versions of HydroSecure are fully scaleable in capacity and incorporate significant improvements in design that reduce size and weight, enhance simplicity and durability, protect system components and augment modular flexibility to fit existing installations. Production availability January 2007

Vendor Contacts

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