

Advantages

- Simple and completely reliable
- Requires no daily maintenance
- Systems are fully monitored to ensure the correct UV dose
- Designed for the ship-board environment
- Interfaces with ship management systems
- Range of sizes to suit different demands
- Minimal space requirements

Proven Performance

- Powerful UV technology running successfully in hundreds of pools around the world
- Same technology used for many years in municipal and industrial water treatment
- Water quality to the highest international standards

Total Solution

- Capacities to meet any requirement
- Totally automatic turnkey packages available
- May be installed on operating ships with minimal disruption
- Full service available from Hyde Marine
- Ship checks, installation support, and spare parts available worldwide

Hyde Swimming Pool Treatment System



Hyde Marine treatment system creates healthy aquatic environments. Dramatic improvements in air and water quality results in increased usage, and improved facilities for a better passenger experience.



UV Treatment Systems Improve the Quality and Safety of Swimming Pool and Spa Water

The primary action of UV is to initiate photochemical and photo-oxidation reactions which destroy chloramines, a range of compounds responsible for unpleasant smells in pools. This is particularly important for indoor pools where features such as water slides and waves give a greater surface area for the release of chloramines into the air. UV reduces the chloramine burden, making the atmosphere safer and more pleasant.

UV has an important secondary action to kill bacteria, viruses, and mold spores, reducing the risk of transmission of stomach, skin and respiratory tract infections to bathers. UV also effectively deactivates chlorine resistant pathogens such as Cryptosporidium, Legionella and Giardia.

Hyde Swimming Pool Treatment System

PRODUCT DATA CONTINUED

The Hyde Marine System

In the treatment room, all the water flows through the chamber where UV purifies it. The only moving part is the automatic wiper, which keeps the surface of the quartz sleeve free from deposits.

Monitor

The monitor provides continuous measurement of the UV intensity and keeps the system running at maximum efficiency. Any change in process conditions triggers a remote alarm.

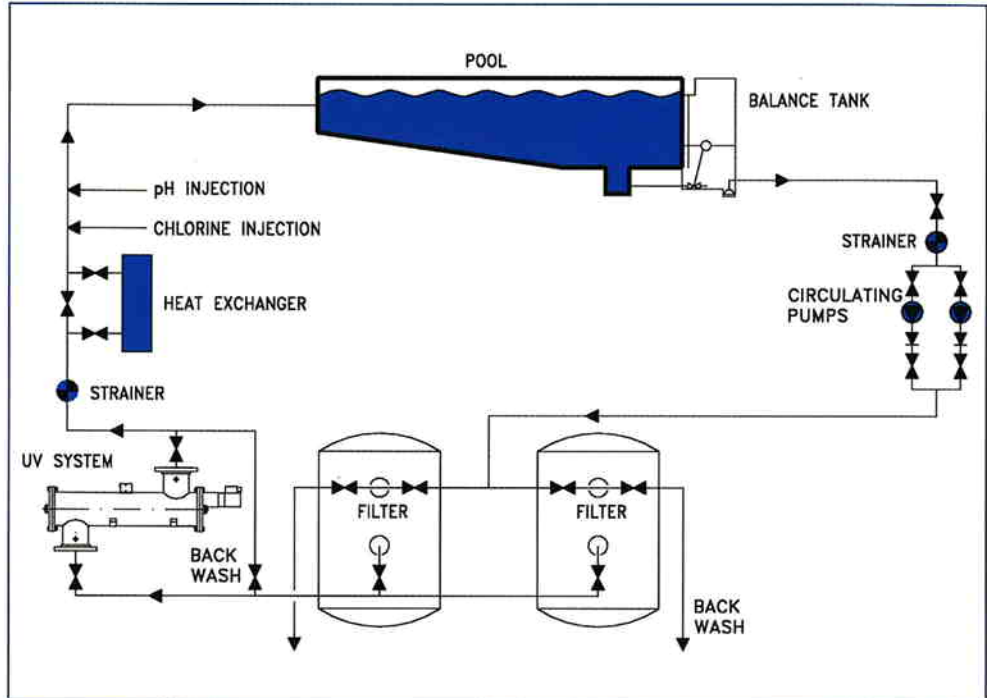
Control Unit

The control unit has a full suite of indicators, alarms, and UV intensity meter output with a real-time VFD display. The unit can be integrated with the ship management systems or operated as a stand-alone. It has a constant wattage power supply and is built to the highest electrical standards.



Cruise ship installation

Flow Diagram



Treatment Chamber

The internal finish and photo catalytic lining are of the highest standard to enhance photo-oxidation reactions. Made of 316L stainless steel and designed for optimum hydraulic effectiveness, the chamber delivers uniform treatment.

UV Lamp

A quartz sleeve mounted axially houses the UV lamp, which can be replaced without interrupting the flow. Hyde Marine uses lamps specifically designed and developed to provide the wavelengths necessary for disinfection and chloramine destruction.

Effective, Economical Technology

- Treats a full recirculating flow and can reduce the amount of chlorine used
- Provides excellent water quality and a more pleasant passenger environment
- Capital investment is lower than other comparable technologies
- Low operating and maintenance costs
- Simple to install and run, and can be added to new pools or retrofitted to older facilities
- No additional filters, contact vessels or pumps needed

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