

Project Location:
Hyatt Regency Maui Resort and Spa
200 Nohea Kai Drive
Lahaina, Hawaii, USA, 96761-1985

Case Study

Aquatic Solutions installs new DEFENDER® pool filtration system at Hyatt Regency Resort in Maui.

Aquatic Solutions Hawaii, LLC
1334 Kalaniiki Street / Honolulu, HI 96821

Steve Maratta
Office: 808.373-9715 / Cell: 702.403.5600
Steve_Maratta@yahoo.com
Contractor's License #: C32723



Water this perfect isn't an accident.

In 2013, Aquatic Solutions Hawaii installed a regenerative filter by Neptune Benson® called THE DEFENDER® at the Hyatt Maui.

The Client

Situated on Ka'anapali Beach, Hyatt Regency Maui Resort and Spa presents an astonishing array of delightful activities and amenities, including the beautiful Lahaina Pool.

The Challenge

Prior to this installation, this large resort pool used an obsolete and ineffective sand filtration system which lead to cloudy, hazy, dull pool water.

The challenge was to update the pool's filtration system with a highly efficient system to keep the water clear and chemically balanced while at the same time reducing costs related to chemical and energy use.

As with any large, popular resort pool, it was essential that the project be completed quickly and professionally.

Solution

The Defender® Regenerative Media Filter is an award winning water filtration system capable of filtering down to 1 micron and requiring no backwash. The Defender has rapidly replaced traditional sand filters as the premier choice for water filtration in a variety of applications. Normal sand filtration takes particulate out to 20-25 microns. This installation was also the recipient of rebate dollars from Hawaiian Energy, as Variable Frequency Drives (VFD) were placed in service, as well.

The Hyatt Maui Resort can now actually slow down their pumps, take advantage of the superior filtration ability of THE DEFENDER® and get more filtration running their pumps with LESS energy. This lead to large energy cost savings, creating a rapid return on investment (ROI) on top of the superior water conditions.

Result

We accomplished this project in three days. The above Summer 2015 photo shows the benefits!

A dramatic reduction of backwash waste directly translates to savings in make-up water along with the chemicals and fuel for re-heating. Consider the cost of chemically treating 1.4 million gallons and the BTU's required to heat this volume from 50 to 80 degrees Fahrenheit.

Improved water quality generated by Defender's ability to remove finer particles will also save on general chemical use.

Estimated annual savings ranges from \$42,000 to \$52,000 depending on local energy costs.

Based on the Backwash Water Consumption of a typical waterpark attraction with a 2000 GPM (454m³ /hr) recirculation rate.