

HydroFLOW 60 Day Product Evaluation

Gold's Aquatics Club

Background

The product evaluation was performed on the indoor 95,000 gallon lap pool, 3,900 gallon hot tub and 5,000 gallon wader pool. The disinfecting agent for the three bodies of water is liquid chlorine which is injected via an automatic ORP dosing system. One *HydroFLOW* 120i device and two *HydroFLOW* HS48 devices treated the three bodies of water for 60 days. Baseline data from the months of October and November 2014 was compared to the product evaluation data from October and November 2015.

Customer

Name: Gold's Gym Woodinville / Gold's Aquatics Club
Address: 18600 Woodinville Snohomish Rd Ne Ste 100, Woodinville, WA 98072
Contact persons: Tom Wunderlich - Aquatics Director / Head Coach

Vendor

Name: MBI Water Solutions, *HydroFLOW* Distributor in the Pacific NW
Address: 2016 Fruitvale Blvd., Yakima, WA 98902
Contact persons: Rudy Nicacio, Manager



Lap and Wader Pools



Hot Tub

Purpose of Installation

- Reduce chemical usage while keeping the set points at the required levels.
- Reduce filter backwashing and increase water clarity.
- Reduce water consumption.
- Reduce 'chlorine smell'.
- Reduce scale staining.



Two HS48 units on Hot Tub and Wader Pools



One 160i unit on Lap Pool

Results

Factor	Oct. 1 to Nov. 31 2014 Without HydroFLOW	Oct. 1 to Nov. 31 2015 With HydroFLOW	Cost	Savings During 60 Day Evaluation	Comments
Water Usage	24,300 Gallons	6,480 Gallons	\$0.01 Per Gallon	\$178.20	Water consumption achieved due to a 70% filter backwash reduction.
Chlorine	6.53 Barrels	4.15 Barrels	\$166.00 Per Barrel	\$390.00	Reduced chemical fluctuation is evident during log entering. Hot tub with less foam.
Acid	4 Barrels	2 Barrels	\$125.00 Per Barrel	\$250.00	Reduced chemical fluctuation is evident during log entering.
Calcium	4 Bags	3 Bags	\$30.00 Per Bag	\$30.00	N/A
Sodium Bicarbonate	7	11	\$22.50 Per Bag	-\$62.00	pH balance chemicals increased, either due to bather load or the drastic reduction in chemical and water consumption.
Maintenance	6 hours a month	3 hours a month	\$25.00 Per Hour	\$75.00	Maintenance cost reduction associated with lessened cleaning of scale stains, backwashing, balancing chemicals, barrel replacement, etc.
Water Clarity	Water relatively clear	Water clarity seems to have improved	N/A	N/A	Increased filter efficiency due to HydroFLOW's ability to flocculate suspended solids.
Scale Staining	Scale staining at the water line	Less scale staining	N/A	N/A	Existing staining is easier to clean.
Chlorine Smell	Chlorine smell is evident	Chlorine smell seems to have reduced	N/A	N/A	Less complaints by bathers.

Savings during 60 day evaluation: \$861.20

Savings per month: \$400 to \$500 (depending on bather load)

Payback Period: 2 to 3 years

For additional information, please contact Rudy Nicacio (rudy@hydroflowwest.com)