

# Honolulu International Airport Case study to Ponds

Location: Honolulu Hawaii USA First inspection : 12/10/11  
Application: Commercial Pond Final inspection:  
Purpose of Installation: Reduce water usage, improve water clarity and reduce maintenance



## Installation Details

**Model of Water Conditioners:** J62 x 3

**Pipe Diameter (OD):** 2.38" by the pump

**Pipe Material:** PVC

**Installation location:** Filtration and circulation pump

**Installation date:** December , 2011

## **Overview**

### **1. General**

The water fixtures have 2 filtration pumps and one circulation pump for the water fall

### **2. Problem**

High volume of water usage to keep water clean and clear, excessive algae growth, costly maintenance.

### **3. The Recommended Solution**

Install three HydroFlow units J62 after the three pond pumps.

### **4. Expected results.**

- a. Reduce make up water
- b. Water clarity will be noticeable in 5 days.
- c. Reduce algae and bacteria.
- d. Reduce limescale.
- e. Stabilize PH.
- f. Reduce scum limes.
- g. Reduce maintenance costs.
- h. Reduce Backwashing.



## Installation Location

Circulation



J62  
pipe  
2.38"



Filtration

J62  
pipe  
2.38"



J62  
pipe  
2.38"

**Inspections**

03/30/12 installed J62



04/19/12



03/30/12 installed J62



04/19/12



03/30/12 installed J62



04/19/12



03/30/12 installed J62



04/19/12



03/30/12 installed J62



04/19/12





## **Results**

1. Reduce 100% the use of make up water
2. Reduction of algae in 5 days.
3. Improvement to water clarity.
4. Reduction of algae on the bottom of the pond
5. Reduction of manual cleaning.
6. Reduction of frequency and time of backwash.

## **Important issues to note regarding pond.**

Not only the water is visually cleaner but the fish have a healthier environment to live due to the killing of the bacteria in the water, by HydroFlow's effect.

## **Reference**

### **Nano Tek-on**

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