

## PILOT FROM FRANCE

### SALT POOL OF HOTEL - FILTRATION PROBLEMS

### 6 MONTH PRODUCT EVALUATION



**Installer:** *HydroFLOW* France - Mr. KUEHN

**Customer:** Hotel-Restaurant Villa Rosa - Trois Epis (68)

**Application:** Algae treatment, filtration, flocculation

**Unit:** *HydroFLOW* P60

**Installation Date:** 05/15/2014

**Date of inspection:** 09/15/2014

## 1. Brief explanation

Boasting the brand "Hotel au Naturel" in Alsace, Villa Rosa welcomes its guests to the heart of the green landscapes of the Regional Natural Park of Ballons des Vosges.

Villa Rosa has a 80m<sup>3</sup> of salt pool available to its customers.

The "Hôtels au Naturel" are distinguished by their simple eco-friendly practices to reduce the impact of their activities on the environment. It is in this spirit that the HydroFLOW solution was tested.

## 2. Site Issues

The management of the pool water is not easy, especially when seeking to limit the use of chemicals while remaining within the framework imposed by law. Indeed between algal blooms causing the water to become cloudy, and the need to constantly correct the pH, the story is not simple for a hotel manager. The pool is controlled by an automatic salt electrolyser which converts the salt in water into chlorine.

## 3. Proposed solution



Fitting a HydroFLOW P60 apparatus upstream of the filtration pump.



## 4. Results

Barely three days after installing the water become much more crystal - clear.  
 After 4 weeks measuring the chlorine levels in water revealed the need to reduce the power of the electrolyser by 60%.  
 Washing the filter, previously performed every 15 days, has not been necessary throughout the summer, a water saving on backwash of 75%.  
 The pH of the pool has stabilized to the point of no longer having to use a pH corrector.  
 Total removal of flocculants and anti-algae products.

After all these changes on the Regional Agency for Health report shows a microbiological water quality still excellent:

ars Agence Régionale de Santé Alsace		Contrôle sanitaire des eaux de piscines		 République Française MINISTÈRE DES AFFAIRES SOCIALES ET DE LA SANTÉ	
Pôle Santé et Risques Environnementaux Courriel : ars-alsace-sante-environnement@ars.sants.fr Téléphone : 03 89 49 30 41 Fax : 03 89 29 69 26			MADAME ANNE-ROSE DENIS HOTEL VILLA ROSA TROIS EPIS.		
Colmar, le : 15/07/2014			68230 TURCKHEIM		
HOTEL VILLA ROSA			BASSIN EXTERIEUR		
Code du point de prélèvement : 100000623		Prélevé le : 15/07/2014 à : 11h30		Préleveur : ALEXANDRE WININGER	
Libellé du lieu : BASSIN EXTERIEUR (MIEU)		Type de traitement : CHLORE STABILISE		Préparations et analyses effectuées par : CAR ILLKORCH	
Motif du prélèvement : CS		Code laboratoire de l'analyse : CAN1407-1947			
Paramètres analysés	Résultats	Limites de qualité			
		Inférieure	Supérieure		
<b>CONTEXTE ENVIRONNEMENTAL</b>					
Fréquentation instantanée au moment du prél	0				
<b>PARAMETRES PHYSIQUES</b>					
Potentiel Hydrogène	7,5 unité pH	6,9	7,7		
Température de l'eau	26,2 °C				
Turbidité	0,16 NFU				
<b>PRODUITS DE DESINFECTION</b>					
Chlore combiné	0,5 mg/l		0,6		
Chlore disponible	3,3 mg/l	2			
Chlore total	3,8 mg/l				
Stabilisant	10 mg/l		75		
<b>PARAMETRES CHIMIQUES</b>					
Carbone organique total	1,57 mgCl				
Chlures	2160 mg/l				
<b>PARAMETRES BACTERIOLOGIQUES</b>					
Coliformes totaux	<1 /100 ml		10		
Entérocoques	<1 /100 ml				
Escherichia Coli	<1 /100 ml		0		
Germe totaux à 36°C-44h	<1 /ml		100		
Staphylocoques pathogènes	<1 /100 ml		0		
<b>Conclusion sanitaire</b>					
Eau de piscine conforme aux limites de qualité en vigueur. La teneur élevée en chlures indique un vieillissement de l'eau: vidange partielle à prévoir. <b>Excellente qualité microbiologique de l'eau.</b>					
Pour le Directeur Général L'ingénieur du génie sanitaire  André Michel					



## 5. Customer Testimonial

*The effectiveness of HydroFLOW devices installed in the pool is remarkable. The water is much softer with a chlorine level at the lowest possible while respecting the rules! The water is clear without flocculant addition and seems even drinkable. The bacteriological analyses are very satisfactory!*

*We are using very low salt and the water has never looked better.*

*I am very satisfied on all points!*

*Anne-Rose HAAS - Manager of VILLA ROSA*