



**ECMI**

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## For Commercial Swimming Pools

### Positive Effects on Swimming Pool Operations

#### **Stabilize pH**

**Save 75% of Backwashed Water**

**Takes Less Time Filling the Day Tanks**

**Improve Bacteriological Results**

**Reduce Sewage Costs Associated with Backwashing by 75%**

#### **Use Fewer Chemicals**

**Lower Total Dissolved Solids (TDS) Levels**

**Reduce Heating Costs by 50%**

**Improve Water Quality**

Hydropath's product range delivers significant and sustained reduction in energy and chemical use that, in addition to obvious environmental benefits, gives very tangible financial savings to the customer.

Our swimming pool and spa products also deliver water quality and pool environment benefits for bathers that are unmatched by any other water treatment. Our range of products uses a patented technology that makes them unique and provides tangible improvements for the pool, spa and steam rooms.

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### How It Works

The patented technology of AquaKLEAR works by transmitting a signal into the water, thereby providing a number of significant benefits.

#### **The Flocculating Effect**

The unit flocculates particles in the water and causes them to rest near the top of the sand filter rather than penetrating deep within it. This results in improved water clarity, reduced length of backwashing time, and reduced backwashing frequency. The quantity of water expelled during the backwashing process is cut by up to 50%.

#### **Breaking Down Chloramines**

As chloramines in the water pass the unit, the chloramines are broken down to release free chlorine back into the water. This improves the disinfecting qualities of the existing chlorine in the pool and it also reduces the unpleasant and harmful effects of chloramines on swimmers and pool staff.

#### **Lower Bacteriological Readings**

Sites fitted with AquaKLEAR see more consistently improved bacteriological readings. In addition to the health and safety implications, pools exposed to sunlight, especially outdoor pools, can see the elimination of algae build up.

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## AquaKLEAR Advantages - Cost Saving Calculations

Pool Operating Costs		
Pump Flow Rate (cubic meters per min)	7	
Frequency of Backwashing per Week	1	
Time of Backwashing (min)	10	
Gap Between Backwashing in Weeks	4	
Incoming Water Temperature	50	
Pool Temperature	84	
Cost of Electricity (kw)		
Cost of Gas (kw)	\$0.12	
Cost of Oil (kw)		
Cost of Water (cubic meters)	\$0.12	
Cost of Chlorine (ltr)	\$0.03	
Chlorine Used per Week (ltr)	\$6.00	
Cost of Acid (kg)	\$38.84	
Cost of Coagulant / Unit	\$0.00	
Effluent Supply Charge per M3	\$0.49	
	<u>Before AquaKLEAR</u>	<u>After AquaKLEAR</u>
Pump Flow Rate (cubic meters per min)	7	
Frequency of Backwashing per Week	1	
Gap Between Backwashing in Weeks	1	4
Frequency of Backwashing per Year	52	13
Time of Backwashing (mins)	10	
Cubic Meters per Backwash	70	14
Cost of Heating for Backwashing Only	\$9,501.84	\$475.14
Cost of New Water	\$4,464.53	\$223.24
Effluent Supply Charge	\$1,775.20	\$88.77
Cost of Chlorine per Year	\$5,630.42	\$2,815.20
Yearly Use of Acid	\$1,413.71	\$471.24
Yearly Use of Coagulant	\$0.00	\$0.00
<b>Total Cost per Year</b>	<b>\$22,785.70</b>	<b>\$4,073.59</b>
<b>Total Cost Savings</b>	<b>\$18,712.11</b>	

Example: Castings were based on 25 meter commercial swimming pool. Prior to fitting AquaKLEAR, **backwashing was done once a week**. The pool operator provided all operating costs.

Once AquaKLEAR was fitted, **backwashing was carried out once per month**. There was no need for coagulants. The above savings reflect those made over a 12 month period.

### UK Water Research Company Results

Clearly shows how AquaKLEAR creates the flocculation effect, which helps with the filtration of debris and extends time between backwashing.

### Swimming Pool Customers Observe

No damaging effects on swim wear.  
Smell of chloramines is virtually eliminated.  
No cloudiness in pool.

**These Benefits Make Your Pool a More Attractive Place to Visit!**

For More Information Contact:  
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