

# YMCA ONTARIO – 2011

At this 50,000 gallon YMCA indoor swimming pool in Ontario, staff works diligently year-round to ensure guests have an enjoyable swimming experience.

Substantial amounts of chemicals are used to maintain optimum pool conditions, and effectively stay within the target range of 0 – 1.0 ppm of chloramines.

Two different shock treatments are used to sanitize the pool costing over \$5400 annually: 425 kg of SM Brite (Potassium ion phosphate) and 60 litres of Hydroxian (liquid oxidizer).

The pool operator had ongoing concerns about chloramine count – directly affecting water and air quality – and possibilities of Cryptosporidium parasite being brought into the water by swimmers. Parasite prevention treatments involve super chlorinating the pool over a 48 hour period.



AquaKlear installed at Ontario YMCA

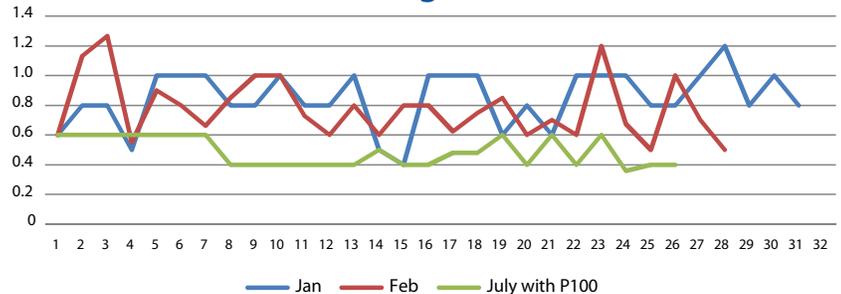
## AquaKlear P-100 unit installed to reduce chemicals – effects monitored over 30 days

- chloramines averaged 0.46 ppm
- no shock added to pool during monitoring period
- over 50% reduction in chemical use

## YMCA employees noted

- visible difference in water clarity in first week
- noticeable reduction of algae forming in the pool

## Combined Chlorine Reading



With P-100: shock treatments were discontinued in July

## Impact of HydroFlow on YMCA

### Cost savings:

Shock treatments are discontinued resulting in an annual cost savings of \$5,445. (Cost savings for additional chlorine use are unavailable).

### Return On Investment (ROI):

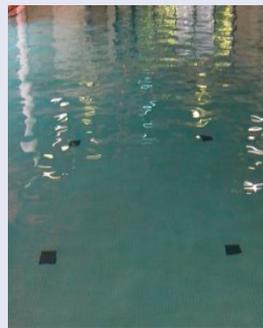
With an annual cost savings of \$5,445, the ROI is 77.9%. This means an investment in HydroFlow yields a return on investment of 77.9% every year. (ROI increases when the cost savings for chlorinating the pool are included.)

### Payback Period:

With an ROI of 77.9%, the cost of the P-100 unit is fully paid back in just over 15 months. (Payback period decreases when the cost savings of chlorinating the pool are included in the ROI.)

### Additional Benefits:

- P-100 ferrite ring treats algae, bacteria and other potential parasites
- Shock is not required to maintain low chloramines count



AquaKlear improves pool clarity

- Water clarity improves as particulates flocculate without chemicals - improving filtration
- More than 50% reduction of chemicals to maintain this pool
- Air quality improves with low chloramines count
- Duration & frequency of backwash reduced within government guidelines

- Lime scale prevented – ensuring heating units run optimally

### Environmental impact of HydroFlow:

In addition to substantial annual cost savings by eliminating shock, the YMCA further reduces its impact on the environment with a greater than 50% reduction of total chemical use. Water consumption is decreased through reduction of frequency and duration of backwash. Decrease of energy consumption to heat replacement water is also realized.