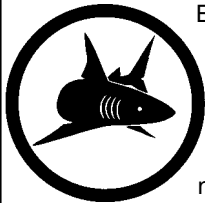


NEWSLETTER

APRIL 2009 EDITION

Commercial Aquatic Supplies is Moving



Effective April 27 2009 the office and warehouse will be moving into a new larger space just a few kilometres away. The new address will be:

COMMERCIAL AQUATIC SUPPLIES

A Division of DB Perks & Associates Ltd
Maplewood Landing
#102 - 2411 Dollarton Highway
North Vancouver, BC, V7H 0A3

Phone numbers, fax numbers and e-mail addresses will remain the same. This will only affect items you send to us, such as payments or items for repair. A reminder will be sent out with all invoices for a period of time to keep everyone informed.

INSIDE THIS ISSUE:

NEW PRODUCTS

Page 2

ECONOMICAL ALTERNATIVES

Page 2

2009 CATALOGUE PRICING

Page 2

UV DISINFECTION FOR POOLS

Page 3

MANAGING COMBINED CHLORINE

Treatment management
Page 4

Introducing the New 2009 Catalogue

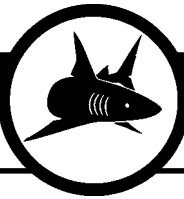
Commercial Aquatic Supplies is happy to announce the new catalogue which is enclosed for your use; and as a resource for Aquatics. 2008 represented a year of dramatic and rapid changes which made frequent price adjustments a fact of life. The paper catalogue, while convenient was outdated by the first price change. In 2009 we hope for much less volatility, but to help us all stay informed of current pricing the website will be where changes are made as they happen. Everyone will have access and the ability to check prices at any time by phoning Commercial Aquatic Supplies, or by checking the catalogue on line at www.commercialaquaticsupplies.com.



RESALE GOGGLE PROGRAM FOR 2009

There are very few changes for the new year. The goggle brochure is again printed as the last chapter of the catalogue. It is also posted as a separate section on the web page so a current version can be printed out at any time.

- ✓ **NEW FOR SPEEDO** Sea Pals goggles and Hydrosplex Kids goggles are discontinued.
- ✓ **LEADER** has dropped the Gecko and the Fury goggles.
- ✓ **THE SPEEDO OPTICAL** goggles is now based on the Vanquisher, not the Aqua Racer, otherwise it is unchanged.
- ✓ **TYR** has split the Children's Flower goggles and Bling goggles into two distinct product lines. The Technoflex goggles have been renamed from 2.0 to 4.0, but otherwise no real changes.
- ✓ **THE GOOD NEWS** in goggle world is that the suppliers are Canadian, and there are no price increases due to exchange rates.



We would like to draw your attention to the following new items:

The Triton C-Series Commercial Sand Filters	Pages 5 & 7
Blue-White F-2000 Flowmeter with analog output	Page 21
Poly Tanks-new wider range	Page 26
Stingl Switch (vacuum safety switch)	Page 29
Hand Held Portable CL2 Gas Detector	Page 41
A & B Epoxy Putty for underwater repairs	Page 47
Magic Lube II for chlorine resistant lubrication	Page 48
Tiger Shark 2 Automatic Pool Vacuum	Page 54
New Jacuzzi Q500 Pool Lights	Page 60
Plastic Wood Lifeguard Chairs	Page 67
Plastic Wood Benches	Page 74
Suitmate Swimsuit Dryer	Page 77
Steam Generators	Page 80
New Handicapped Lifts	Page 85
New Tot Dock	Page 89
More Pool Toys	Pages 105-110



We would like to draw your attention to the following more economical alternatives

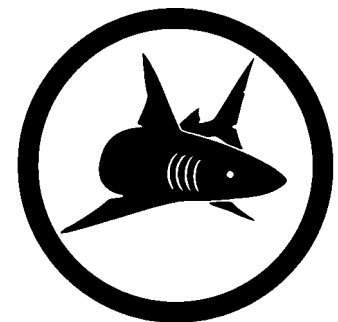
These are more economical choices for the following reasons. The products are made in Canada, or come from a supplier who is close by so there is less freight in the price, or manufacturers have made changes and or improvements in production to lower costs, and are passing them on.

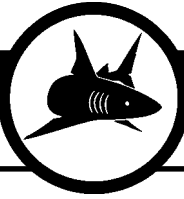
Nemato Filter & Strainers - Canadian Made	Page 9 & 18
Generic DE Filter Cores & Covers-Canadian Made	Page 10
VM Series Filter Pumps - Canadian Made	Page 14
ETS UV Equipment-new lower pricing	Page 33
Gas Detectors - Canadian Made	Page 41
Tiger Shark 2 pool vacuum-a worthy competitor?	
Better quality control and a Canadian supplier	Page 54
Economy Lifeguard Chairs-Canadian Made	Page 67
Turbo Twister Pool Slide-Manufacturing & Freight	Page 75
Astral Pool Grating - Lower Pricing	Page 82
Lolo & Gallatin Pool Lifts - Manufacturing & design	Page 84
Easy Ladder (pool access step) - Pricing	Page 87
Swim Platform by Aqua Creek - Design & Pricing	Page 89
Standard Pool Noodles - Canadian Product	Page 104
Pool Toys - Canadian Made	Pages 105-110
Economy Kickboards Alternative material & Canadian	Page 107
Basketball Games - Alternative products	Page 110
Aquajogger Belts - Less Freight & Alternative Product	Page 111



2009 Catalogue Pricing

For the year 2009 the assumption made for the value of the Canadian Dollar was that it would be worth on average 82 cents US for the year. The same figure for 2008 was 98 cents. This represents a drop in the value of the Canadian Dollar of approximately 20 %. 2008 was also a year of sharp price raises in the value of many commodities, affecting the prices of many finished goods. This has translated into price increases for most goods, and the recent drop in the value of these same commodities has not yet been reflected in those prices. Probably 85% of the goods in the Commercial Aquatic Supplies catalogue are made in the USA. This means that the vast majority of products have gone up by a minimum of 25%, representing small price increases from the manufacturers, and a huge 20% caused by the fall on the value of the Canadian dollar. It is hoped going forward that the Canadian Dollar will strengthen somewhat, (the future is uncertain), and that falling commodity prices will mean that product prices will not go up (might even fall) for the next year or two. Canadian pricing will hopefully stabilize or maybe even fall if these two forces move in tandem.





UV Disinfection for Public Pools:

UV is becoming The Standard

The most asked questions at our trade show booth this spring were all related to UV at public pools. In addition we notice that mechanical engineers are including UV equipment in virtually every new recently opened public pool and every public pool currently in construction in Western Canada. And some Ozone systems are being replaced with UV technology. In fact, in June one 50 meter aquatic center ordered UV equipment to replace the finicky & expensive-to-maintain ozone system that the pool opened with in 1998. UV is quickly becoming the standard for treating pool water at public pools!

Why the move to UV??

UV done correctly solves significant problems that are important to both operators & swimmers.

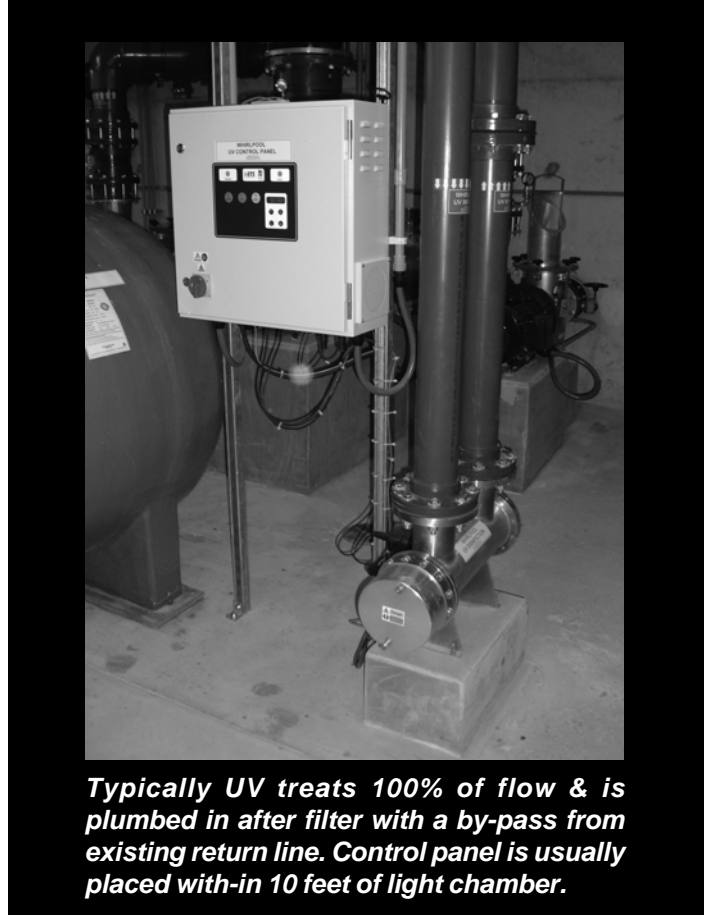
UV energy applied to pool water breaks up & eliminates chloramines from the water continuously. It also kills bacteria including chlorine resistant pathogens (i.e. cryptosporidium, etc) resulting in improved sanitation of pool water over 'chlorine-only' applications. UV & a traditional chlorine system working together is the state-of-the-art for sanitation of pool water available today.

- Benefits for swimmers are - greatly reduced red eye, eye irritation & skin irritations; no smell of chlorine in the air or at water surface; and since 100% of flow is treated by UV, swimmers enjoy improved safety of pool water
- Operators' report - noticeable improvement in air quality means air inside pool envelop is less corrosive on surfaces and equipment; with combined chlorine eliminated there is no need to super-chlorinate and by adding UV to the existing chlorine system a facility improves safety of water to what is considered to be "best practise".

UV is not just for New Pools!!

Unlike ozone, UV equipment can be retro-fitted into most existing filtration systems. And, in a retro-fit application, UV makes an immediate improvement to pool water and pool air quality that is noticed by both aquatic staff & public swimmers. The more challenging the chloramine/combined chlorine problem, the bigger the positive impact of UV!!!

UV disinfection is a user benefit that is meaningful to the public and worthy of mentions in brochures & facility advertising.



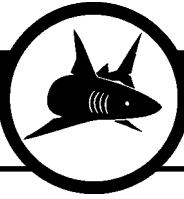
Typically UV treats 100% of flow & is plumbed in after filter with a by-pass from existing return line. Control panel is usually placed with-in 10 feet of light chamber.

Need More Information??

Commercial Aquatic Supplies distributes the ETS UV line in Western Canada. ETS is the market leader in the USA and continues to lead in quality, innovation, and service. Medium pressure UV, like ETS's, gives the best result and is most commonly used in new facilities.

Page 33 in the 2009/2010 Commercial Aquatic Supplies catalogue gives more technical information as well as system pricing and some notes that help estimate installation cost for budget purposes.

If you wish a more detailed information package including pictures of typical installations, articles explaining UV at public pools as well as detail about how UV works, etc; — call Jack, John, Jim or Bill at Commercial Aquatic Supplies and ask for our 'UV Info Package'. We can also offer references of operators that have retro-fitted UV.



Managing Combined Chlorine

There is no one treatment that will take care of this problem, but by combining several treatments the problem can be managed.

The first recommendation is to enforce the rules requiring patrons to shower before entering the pool. Studies show that this can result in a reduction of 25% in the dirt load that otherwise would have to be dealt with by the filters and treatment chemicals. This is like reducing the bather load by 25%, or increasing the dirt load that needs to be treated by filtration and chemical treatment. It's worth doing.

Air quality is important for patrons and staff alike. Typically it gets worse in the winter. Poor weather increases bather loads, people spend more time indoors. Modern air handling systems are typically energy efficient. This means that the colder it is outside the less fresh air is allowed into the building. This is opposite to what is needed. Find out how to manually override this energy saving feature so when it is busy in the winter and more make up air is needed it can be provided. The heating bill will be higher but this is how you get the same clean air that is enjoyed in the summer.

If sand filters are being used consider adding a flocculent such as Alum (aluminum sulfate) an inexpensive standard industrial chemical that has been used for this purpose for years. This will form a gelatinous mat on the filter bed to help catch particles which would otherwise pass thru the filter. The formula is 4 to 5 ounces of Alum per square foot of filter area after each backwash. Products like c-clear work equally well, and like many other commercial flocculants they are pre-dissolved preparations of Alum. DE is a much finer media and no flocculent is needed. Anything that can be filtered out lowers the dirt load that otherwise must be treated chemically.

Dose the pool regularly with an Oxidizer such as Potassium monopersulfate (Oxyout, Oxybite, Oxone, Impact). Weekly oxidation reduces bather contaminants and therefore chloramines, giving the improvements in air and water quality desired. The use of FAS-DPD test kits for chlorine measurement is recommended when using a monopersulfate based oxidizer. A recommended dosage would be 1 lb/10,000 gallons. Studies have shown that weekly oxidation with monopersulfate is about 10 times more effective than super chlorination.

Super chlorination or Breakpoint Chlorination. Not recommended. For this process to be successful time and careful control of chlorine levels are required otherwise unintended and undesirable consequences occur. Time, generally speaking it is not available, which means successful breakpoint chlorination does not happen. Overdosing with too much chlorine aggravates the problem, volatile chlorinated disinfection by-products are formed which further aggravate the situation. These can be nitrogen trichloride, dichloromethylamine, dichloroacetonitrile, cyanogen chloride, to name a few.

There is no one treatment that will take care of this problem, but by combining several treatments the problem can be managed.

It is best to use chlorine for the job it is best at, namely disinfection, and to use an oxidizer for the same reason.

Supplemental UV treatment works, and provides further improvements in water quality. UV at germicidal doses provides supplemental disinfection, and a constant slow reduction in chloramine levels. (Just like O3). UV chambers normally process the full flow of the filtration system providing deactivation of pathogens which are slow kills with chlorine, and expose all the chloramines to UV treatment with each pass, not partial treatment as used in bypass or slipstream systems. Oxidation is still required and use of an oxidizer as described above is still recommended with UV for optimal water quality.

The effects of ozone are a slow constant oxidation and reduction of chloramines, with some supplemental disinfection, but the process has recently lost favour due to high equipment and maintenance costs.

Water replacement based on bather load to reduce the concentrations of combined chlorine and precursor compounds is also recommended. A formula of 40 litres of fresh water per bather per day would be ideal. A reduced version of this formula can be tried; a program starting at 5 or 10 litres per bather per day would be a start. Keep records and change one thing at a time so you know what your results really are. Results of all these practices are cumulative, if they are all used the lower doses of fresh water will give good results, if a step or two is missed higher dosages will be required to achieve good water and air quality. Bather load is the biggest factor, higher load requires more treatment or fresh water, adjust accordingly.