

TRi-XO
CROSS OVER

& **Element™**

TRi-XO CrossOver is the latest edition in the TRi series of chlorinators. It features updated software to provide 2 different menus, one based on using salt and the other based on using mineral salts. The operation and functionality are identical

Zodiac has created a new line of complimentary products that can be used in conjunction with TRi-XO. These are Element and Element Activate which are both mineral blended salts. Element Activate, a very magnesium rich blend is used at start up for pools with a high/normal salinity (anything above 3000ppm). Element Activate will condition the water from the start and then the user reverts to using normal Element mineral salt from that point. Element mineral salts are blend of Sodium & Magnesium chloride and you can begin using this blend in any liquid/granular Cl pool or any salt pool that has a low salinity (under 3000ppm).



Whats the difference between Element and MagnaPool?



MagnaPool is not just a chlorinator/hydroxinator and minerals or salts. MagnaPool is a system that is designed to work synergistically within all its components. All parts perform a critical function that create the perfect swimming experience. Element is a sodium blend that uses magnesium to enhance the feel of the water. Magnapool uses no sodium and is environmentally sensitive as its backwash can be used on the lawn. The combination of potassium and magnesium chloride along with the other system components reduces chloramines production by over 40%, so the water is less irritating and healthier. MagnaPool is the only true mineral water pool available today.

Use the right 'Fuel' for your pool

Salt and mineral salt blends are like the fuel for your car, you have 91octane P95 and P98 premium blends for high performance vehicles and those that want the best from their car.

The different salt/mineral blends don't produce more chlorine, but they do provide a better feeling water that gives a better swimming experience. Just as with your car matching the right fuel with your motor is crucial to performance, the same is true with your pool. We recommend using TRi-XO with Element (but it can be used with any SWC) and the MagnaPool Hydroxinator must only be used with MagnaPool Minerals and glass media.



Choose the right Fuel
for your Pool



Element™



Element™ Water Testing

When testing Element mineral salt pools, all general parameters remain the same as per the Langelier Index for water chemistry and Australian Standards such as chlorine levels, pH level, Total Alk, metals etc. However like any true mineral water pool there are some unique factors; such as salinity readings, TDS and hardness levels (calcium and total hardness).

ALL MEASUREMENTS PPM	FREE CHLORINE	pH	TOTAL ALKALINITY*	CALCIUM HARDNESS*	CYANURIC ACID*	IDEAL SALINITY LEVEL*
IDEAL FOR ELEMENT	1 - 3	7.2 - 7.6	80 - 120	200 - 400	30 - 50	4,000ppm Salt 5,000ppm TDS
TO INCREASE	Press Boost	Add Soda Ash (use pH UP)	Add Sodium Bicarbonate (Use Alkalinity UP)	Add Calcium Chloride (use Calcium UP)	Add CYA (use UV Blockout)	Add Element Mineral Salts
TO DECREASE	N/A	Add acid (use pH DOWN or Liquid Acid)	Add acid (use pH DOWN or Liquid Acid)	Partially drain/refill (or use Calcium Down)	Partially drain/refill	Partially drain/refill

Important Information

- » When performing a **Calcium Hardness test**, ensure it is a **TRUE** Calcium Hardness test. Many readers perform a total hardness test and interpret the results as calcium. If your Calcium Hardness appears to be too high, this could be the reason. If the pool has been balanced for hardness (calcium at 200-400ppm) prior to addition of Element mineral salts, then as an estimate calcium hardness will be 30% of the total hardness. E.g if total hardness is 800ppm, then Calcium is approximately 240ppm (within range)

Zodiac has a specific test kit to test for magnesium hardness, calcium hardness and total hardness (this is only available to pool shops). We recommend visiting the pool shop to conduct this test at least once per season. (these will be available early 2015)

- » Magnesium Chloride is very hygroscopic, which means it does not dissolve the same as traditional salts. i.e for every 10kg bag of Element added only 9kg will show as salinity. When adding Element mineral salts, please follow the dosage charts on the flip side of this card.

If you are trying to determine the actual salinity of the Element Mineral Salt pool use this simple conversion method - To **convert TDS** levels to Salt, multiply the TDS result by a factor of 0.68. e.g. if TDS is 6000ppm.
Salt = 6000 * 0.68 = 4020ppm

Installing Element on new and existing pools

Use the dosage rates as outlined in these tables when installing Element Mineral Salts.

NOTE: Element Activate is only required for pools with salinity above 3000ppm, all other pools can begin using Element Mineral salt blend immediately.

If salinity is above 3000ppm, please use Activate first: Activate will condition the water for use with Elements. Additional Element mineral salt does not need to be added, use Element Activate only.



Qty Of Activate Bags required at 'Conversion' on an existing pool (use if salinity level is over 3000ppm)

Pool Size	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
Over 3000ppm	2	4	5	7	9	11	13	14	16	18
Over 4000ppm	1	3	4	5	6	8	9	10	11	13

If salinity is below 3000ppm or if the pool is currently using manually dosed chlorine such as liquid or granular you can start using Element mineral salts immediately.



Qty of Elements required on a new pool or low salinity existing pool (use if salinity is below 3000ppm)

Salinity level	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
0 ppm	5	9	14	19	24	28	33	38	42	47
500 ppm	4	8	12	16	21	25	29	33	37	41
1000 ppm	4	7	11	14	18	21	25	28	32	35
1500 ppm	3	6	9	12	15	18	21	24	26	29
2000 ppm	2	5	7	9	12	14	16	19	21	24
2500 ppm	2	4	5	7	9	11	12	14	16	18

Please note that all recommendations and dosages are based on a chlorinator working at the common standard salinity level of 4000ppm. **Please refer to specifications found in your chlorinator instruction manual.**

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