

Changing Water – Draining intervals for Hot Tub Spas

PURPOSE

Most spa owners change their hot tub's water every 2 to 4 months. This is primarily because over time, salt from perspiration and other non-organic contaminants—the Total Dissolved Solids or TDS, will increase to levels causing cloudiness or other problems. Knowing when to drain and refill is important.

BACKGROUND

Although organics are destroyed by sanitiser systems, TDS levels continue to increase over time. But how do you really know when it's time for draining?

Maintaining spa water balance & sanitiser, along with proper filtration will maximize the time between water changes. It's time to change the water when the TDS level reads between 1000 – 1500 PPM.

These levels can be checked by Professional pool & spa chemical retailers.

ESTIMATING DRAIN INTERVALS

Using the spa's water volume in litres and estimated bather load, you can easily determine the estimated number of days between necessary water changes with the simple equations below:

Handy Formulas

First, divide your total spa litres by 11.35. Divide this result by your Bather Load, which is the average number of bathers per day. The final result is the estimated number of days between water changes recommended for a properly maintained spa or hot tub.

Example 1: Residential Spas:

$$\frac{1700 \text{ litre spa} \div 11.35}{2 \text{ people per day bather load}} = 75 \text{ days}$$

Example 2: Commercial Spas:

$$\frac{3400 \text{ litre spa} \div 11.35}{20 \text{ people per day bather load}} = 15 \text{ days}$$



Poppits

Technical Bulletin

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Please keep in mind that these are estimated guidelines only. The formulas assume that your hot tub spa is properly maintained, and water is balanced and sanitised. Other factors such as user hygiene and local water quality will also affect drain intervals. If users shower before using the spa, water changing intervals will be longer. Local regulations may govern water change intervals for commercial spas.

HOT TUB DRAINS

Most spas have a drain bib (a plastic faucet) inside the removable access panel. Some spas have no drain and must be siphoned.

FLUSH YOUR SPAS PLUMBING WITH EVERY WATER CHANGE

You do your best to keep your spa clean and sanitary, but what you don't know is that the **INSIDE** of your spa's plumbing system is likely coated with oily film, contaminants and grime.

By flushing your spa's inside plumbing, jets, and heating systems before each draining with Poppit Spa Pipe Degreaser, you will achieve the cleanest possible water environment. You'll truly be amazed at what this product removes from an otherwise spotless hot tub/spa.

PLEASE NOTE: When using Poppit Spa Pipe degreaser in your spa you must make sure all spa jets are fully open and all air/venturi controls must be in the open/on position. If your spa operates with a **DIVERTER VALVE** or **DIVERTER JET**, make sure they are positioned to allow water flow through all the jets at the same time. If you are unsure please check with your spa manufacturer or supplier.

To degrease the spa, first remove the filter cartridges, and then add 50 Mls of Poppit Spa Pipe degreaser per 1,000 litres of spa water. Circulate for 1-2 hours, occasionally turning the blowers on for 20 seconds and then off again. Drain the spa and wipe the inside and jet nozzles, behind the head rests and the under side of the spa cover with a damp cloth with Poppit Spa Pipe degreaser on it. Rinse off and if possible flush the pipes by projecting water through the jet nozzle housing. Remove all water and return plug. Replace filter cartridges after thoroughly cleaning.

USING POPPITS POOL & SPA COMPLETE MAINTENANCE WILL LENGTHEN THE USEFUL LIFE OF THE WATER.

Trials have shown that using a maintenance dose of 30mL/1,000 litres of Poppits Pool & Spa Complete Maintenance has extended the life of the water by more than 25%. It also can be used before emptying the spa/hot tub and after refilling.