

# **Purpose of the secondary filter system**

The purpose of the secondary filter system is to minimise water loss when cleaning the pool by vacuuming or backwashing the sand filter.

With our system in place on the drain line side of the sand filter when you clean your pool by vacuuming you can bypass the sand filter on the waste cycle, diverting the water into the secondary filter, which will then remove the heavy particles and return the water back through the main return line to the pool clean and eliminating any wasted water. This prevents vacuuming through the sand filter of the heavier particles which collect on the bottom of the pool.

The sand filter will still filter the water through the skimmer box as per normal because sand filters are still the most efficient way to filter your pool water, picking up the lighter particles which float on top and underneath the surface.

We have found through testing the system that if the heavier particles from the bottom of the pool are not put into the sand filter when vacuuming the sand filter will operate more efficiently and will not cause the sand to discolour from the heavier particles on the bottom of the pool. When backwashing of the sand filter is required the same operation can be done on the backwash cycle diverting the water into the secondary filter and returning it through the main return line back to the pool cleaned, eliminating any water being wasted down the drain. To keep the sand clean and stop any discolouration of water we recommend to our customers that they backwash their sand filter every two weeks.

With the three way valve installed on the drain line water can still be put down the main drain if required, or a water storage tank can be installed, if permissible, and the water can be held in the tank and used at a later date.

Also, by not sending the water down the drain we have found from the feedback of our customers that the quality of the water is better and they have found it easier to maintain their PH, chlorine and TDS levels. We advise our customers to have their water tested at their local pool shops fortnightly.

The majority of swimming pools have sand filters, and as already stated the sand filter is the most efficient way to filter pools. Our secondary filter system is merely an extension to be added on to any new or existing sand filter to eliminate water loss.

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