

OC-1 FILTRATION MEDIA

How to change an existing residential side mount sand filter to OC-1.

1. Ensure you have all the equipment required to perform this media change.
2. Turn off any heating and/or chemical dosing systems.
3. Turn off the circulation pump and isolate the filter & pump.
4. Move the multiport valve to the CLOSED position.
5. Open the lid of the filter.
6. Open the lower drain port on the filter to remove the water from the tank, this will make it easier to remove the existing media.
7. Once the filter is drained remove the top diffuser and scoop out all the existing media.
8. Once all the media is removed wash out the vessel using a hose and brush. Ensure there is no residue / debris left in the vessel.
9. Close the drain port.
10. Modify or replace the bottom laterals (see separate instruction sheet on following pages).
11. Fit the new special top diffuser or top lateral set to the top pipe assembly (in place of the original diffuser).
12. Fill the filter with OC-1 Media to approximately the same level as the old media.
13. Refit the lid.
14. Open/close the valves needed to return the system to operation mode.
15. Move the multiport valve to the RINSE position.
16. Turn on the pump and rinse to waste for 2 minutes whilst bleeding the air from the filter.
17. Turn off the pump and move the multiport valve to the FILTER position.
18. If you are using a variable speed pump or an inverter (variable speed drive) on your pump, it should be possible to reduce the pump speed and still achieve the same turnover of the pool as previously. This will save energy and money.
19. Turn on the pump and continue to bleed the air from the filter as required.
20. You may notice that some of the media is floating. This is completely normal and it may take several days for all the media to sink.
22. Continue to vent periodically during these first days as required.
23. Follow your normal backwashing regime. However, we recommend that back- washing takes place at least once a month. For best result backwash until the sight glass runs clear then RINSE until the sight glass again runs clear.
24. Your OC-1 Media is now working.

Please note: *Ensure that the TDS and Cyanuric Acid levels remain within the recommended parameters.*

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Achieving optimum flow through laterals with OC-1 Media

TOOLS REQUIRED:

Heat shrink material, heat gun, 8mm drill bit and drill.

STEP 1: Remove the laterals and seal the lateral using heat shrink and the heat gun as per the below.



1a. Cut the heat shrink to the correct size



1b. Insert the lateral into the heat shrink



1c. Heat the heat shrink until it fits.



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STEP 2: To achieve optimum flow, you need to work out how many holes you need to drill in each lateral, including one hole in the end.

$$\begin{array}{r}
 \text{Total Flow Rate} \\
 \text{Of The Filter} \\
 \text{(Litres per hour)}
 \end{array}
 \div
 \begin{array}{r}
 \mathbf{200} \\
 \text{(Litres)}
 \end{array}
 =
 \begin{array}{r}
 \text{Total Number} \\
 \text{Of Holes For} \\
 \text{Entire Filter}
 \end{array}
 \div
 \begin{array}{r}
 \text{Total Number} \\
 \text{Of Laterals}
 \end{array}$$

EXAMPLE: 9,600 litres per hour \div 200 = 48 \div 8 =
6 holes to be drilled per lateral

NOTE: In the event that you have a filter with a rake type lateral arrangement with different length laterals (see *fig.1*), the same number of holes are required. Simply distribute the holes evenly across the lateral set with more holes in longer laterals and less in shorter laterals.

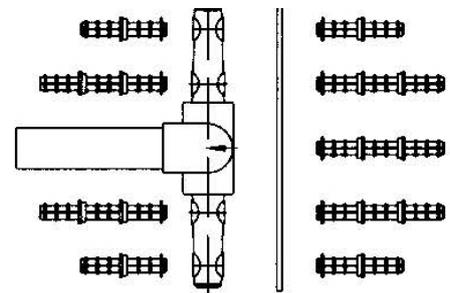


fig.1

STEP 3: You should have worked out how many holes need to be drilled on each lateral. The first hole **MUST BE** drilled in the end cap of the lateral, then the remaining number of holes are to be drilled through the bottom of the lateral, equidistant apart.

IMPORTANT:

Drill one hole in the end cap first.



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STEP 4: Using the 8mm drill bit, begin drilling each hole equidistant apart.



IMPORTANT:

Only penetrate one side of the lateral when drilling a hole.

STEP 5: Once all holes are drilled in the lateral, replace it back inside the filter.

STEP 6: Position the holes to the bottom of the filter.

STEP 7: Repeat steps 3 to 6 on all the remaining laterals.