

# NOP for Filter Media Change

By Allen Wilson, FISPE and Chris Carr, FISPE

1. Before undertaking any media change, check with the manufacturer as to the exact quantity of support media and the quantity of the main filter media you will need per filter and the availability of any spare/replacement parts that you made need.
2. If a heater is fitted to the pool pipe-work system – turn the heater off and continue to run system for a minimum of 5 minutes in order to avoid the risk of any overheating.
3. Shut down and isolate any chemical dosing system and ensure against siphon action.
4. Isolate pump strainer pot (via valves on suction pipe-work).
5. Open and clean pump strainer basket whilst wearing appropriate PPE and RPE.
6. Depending on size of filter (volume of media): Add to the pump strainer pot (whilst wearing appropriate PPE and RPE) 10 ml of Sodium hypo (or 3 grammes of cal hypo) - per 500kg of media.
7. Backwash filter for 1½ - 2 minutes then **STOP** – leaving the media immersed in the chlorinated water solution for a minimum of 10 minutes.
8. Backwash for a further 3 minutes – flushing through with clean water.
9. Isolate filter by closing all relevant valves
10. Open filter drain (if one is fitted) valve at base of filter.
11. Allow to drain under gravity (this may take some time depending on filter size).
12. Open air vent(s) (if fitted) to assist with drainage.
13. Remove filter access cover(s). Ideally on larger commercial filters there should be one at top and one on side.
14. NOTE: Ideally service hatches should be large enough for access.
15. Remove sand from filter whilst wearing appropriate PPE and RPE.
16. NOTE: If there is a requirement to access the inside of the filter, a risk assessment needs to be carried out, taking into consideration Confined Spaces Regulations and Lone Working. It may be necessary to ‘hand dig’ media out of the filter and place into plastic bags (not exceeding 20kg). Alternatively, when emptying larger commercial filters (if possible) use some type of vacuum device to simplify extraction. Very large filters may be emptied via a ‘sludge gulper – vehicle’ or the media may be pumped out into a suitable skip.
17. Once the filter is completely emptied of media then thoroughly inspect the under drain system and replace any parts that are showing signs of wear or damage.
18. Replace side access cover (if fitted).
19. Fill the filter between to ⅓ to ½ way with water (this will help to

break the fall of the media, reducing the risk of damage to the under drains).

20. Commence adding media.  
NOTE: Most commercial filters require a support layer of gravel which is normally between 6-10mm nominal diameter and this support layer should cover the lateral system by at least 50mm (100mm is preferred). The support layer should be flat and even. Once in place, continue to fill with the main filtration media which could be sand, zeolite or recycled glass.

21. When the media has covered

the underdrains by around 300mm, replace top access lid and backwash to remove dust and then put filter on line to establish that under drains have not been damaged.

22. Providing all is OK, remove top lid and continue to fill filter with media to correct level.

23. Replace lid, then backwash and rinse thoroughly (possibly 2-3 times) to avoid any dust or colour staining from entering the pool. Only when you are completely sure the media is totally clean reset the system to filter and re-start heater and dosing systems.

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## **THE ISPE FILTRATION WORKSHOP**

**For Domestic Installations**

**Tuesday 7<sup>th</sup> November 2017**

***To be held at Plastipack Ltd., St Leonards-on-Sea, East Sussex***

This workshop will give basic training & guidance to new recruits and/or service personnel with limited experience of swimming pool filtration and servicing.

The cost for this comprehensive workshop, including lunch and all refreshments, will be £60.00 (ISPE Members and Students) and £80.00 (non-members).

Certificates indicating 6 CPD points will be emailed to delegates shortly after the Workshop.

**WE HAVE A FEW PLACES AVAILABLE**

**To reserve your place, contact [ross@ispe.co.uk](mailto:ross@ispe.co.uk) or 'phone 01603 499959.**