

# Cleaning the filters

There are 2 filters on a geothermal heating system. The first one is located at low level between the Heat Pump and Buffer Tank (Photo X), the second one is located on the collector board to the right of the heat pump just below the circulation pump (Photo Y).

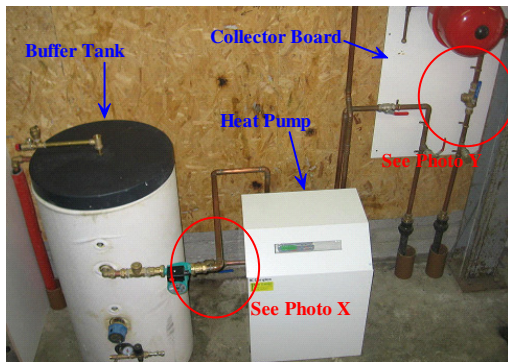


Photo X

Photo Y

(Note: On air to water heat pumps there is only one filter to be cleaned at low level)

1. Turn the heat pump off at either the Isolation switch, usually located above the heat pump or at the circuit breaker located at the main switch board (**Photo 1 & Photo 2**). The large isolation switch first, than the smaller one.

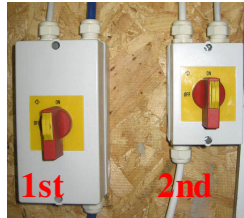


Photo 1

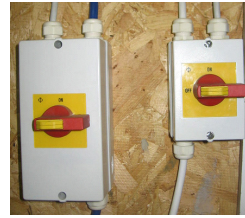
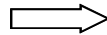


Photo 2

2. Turn the blue lever (**Photo 3**) so that it is perpendicular to the direction of the pipe or OFF position (**Photo 4**).



Photo 3

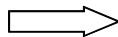


Photo 4

3. Using a large spanner (adjustable spanner will be fine) to open (**Photo 5**) the nut (**Photo 6**) that is on the pipe in line with the blue handled lever. Note that size of nut is either 40mm or 50mm.



Photo 5

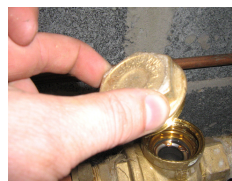
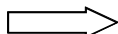
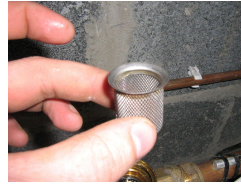
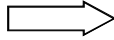
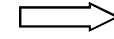


Photo 6

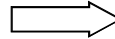
4. Remove the circlip that retains the filter (**Photo 7**). Remove the filter (**Photo 8**) and clean the filter thoroughly under a tap to remove any sediment.

**Photo 7****Photo 8**

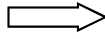
5. Replace the filter (**Photo 9**) and circlip (**Photo 10**).

**Photo 9****Photo 10**

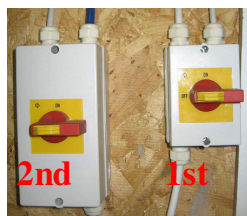
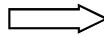
6. Replace nut (**Photo 11**) and tighten it firmly (**Photo 12**).

**Photo 11****Photo 12**

7. Turn the Blue lever (**Photo 13**) to the direction of the Pipe work or ON position (**Photo 14**).

**Photo 13****Photo 14**

8. Switch the power on to the Heat pump (**Photo 15** & **Photo 16**, reverse of Step 1).

**Photo 15****Photo 16**

9. Repeat exercise with the other filter.