

The upper drawing shows a Domestic Defluoridation Unit (DDU) when it is fully assembled.

A DDU consists of : Lid, Baffle Plate, Upper Chamber, Micro filter, Lower chamber and Tap (right).

Fit the Tap in the Lower Chamber, with one washer and the Tap's nut, fitted from inside. Tighten the nut properly to prevent leakage of water.

Wash the Micro filter in water, to clean its slots and the hole in the filter Nut. Fit the Micro filter in the Upper Chamber, with the Filter body and one washer inside the chamber. Tighten properly to prevent any leakage of water.

Fit the knobs with the screws provided, to the Lid and the Baffle Plate.

Clean the Upper and Lower Chambers, Lid and Baffle plate thoroughly with detergent and water.

Open a 4 Kg packet of Activated Alumina (AA) in a pour the contents into a clean bucket. Pour some water in the bucket till there is standing water above the AA. Be careful. Pouring water on fresh AA can generate heat. Stir the AA gently with a plastic pipe or a wooden stick. Allow the AA to settle and pour off the water. Wash the AA two or three times till the water being poured off is clear.

Transfer the washed AA from the bucket to the Upper Chamber of the DDU around the Micro filter. Place the Baffle Plate on the AA in the Upper Chamber.

Place the Upper Chamber on the Lower Chamber. Fill raw (high fluoride) water into the Upper Chamber till there is 5 cm of water above the Baffle Plate. Lift the Upper Chamber slightly to check if a thin trickle of water is flowing from the hole in the Micro filter Nut.

The DDU is now functioning. Fill the Upper Chamber fully with water. The water collecting in the Lower Chamber is now safe. Note the date of starting of the DDU on the Filter Card.

Assembly of a Domestic Defluoridation Unit



Components of a Stainless Steel Domestic Defluoridation Filter



Micro-filter & its components



Upper Chamber with Micro-filter being installed – from inside (top), from outside (bottom)

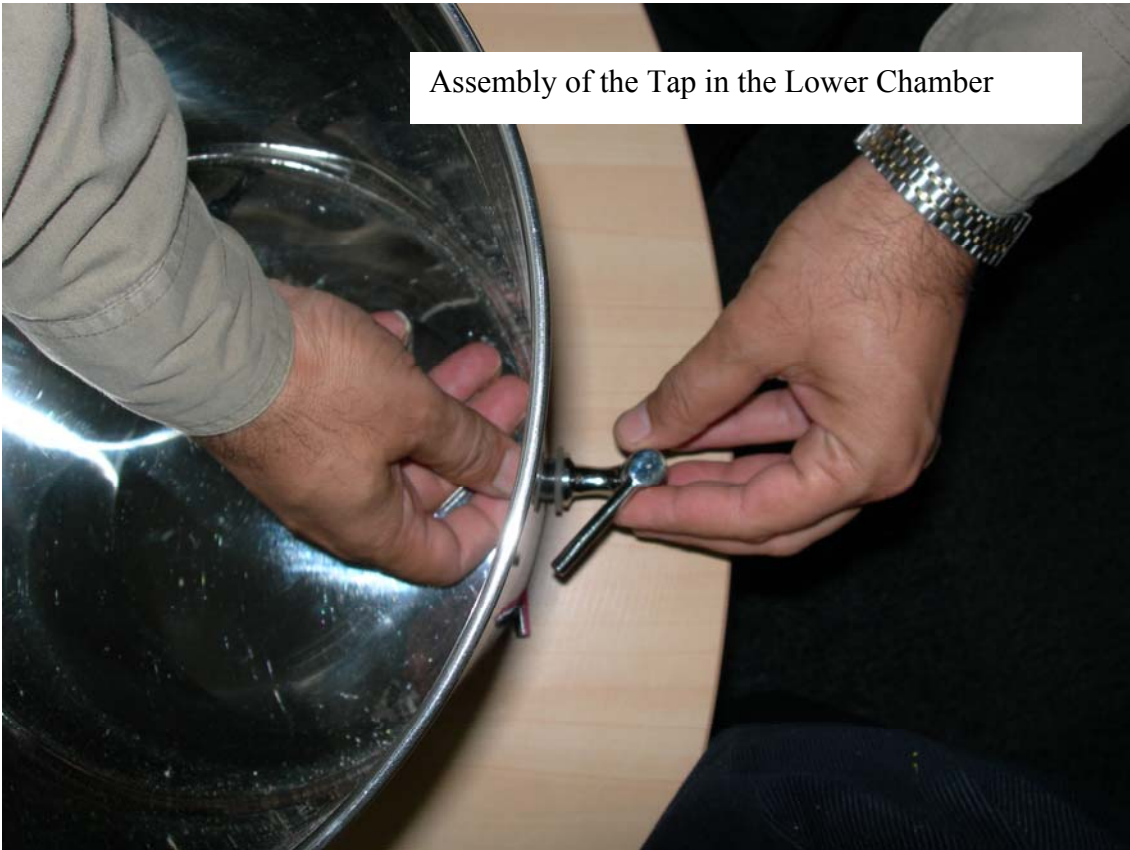


Baffle Plate with its Knob & Screw



Lower Chamber with Tap and fittings





Fully assembled Stainless Steel DDU



Fully assembled Plastic DDU

