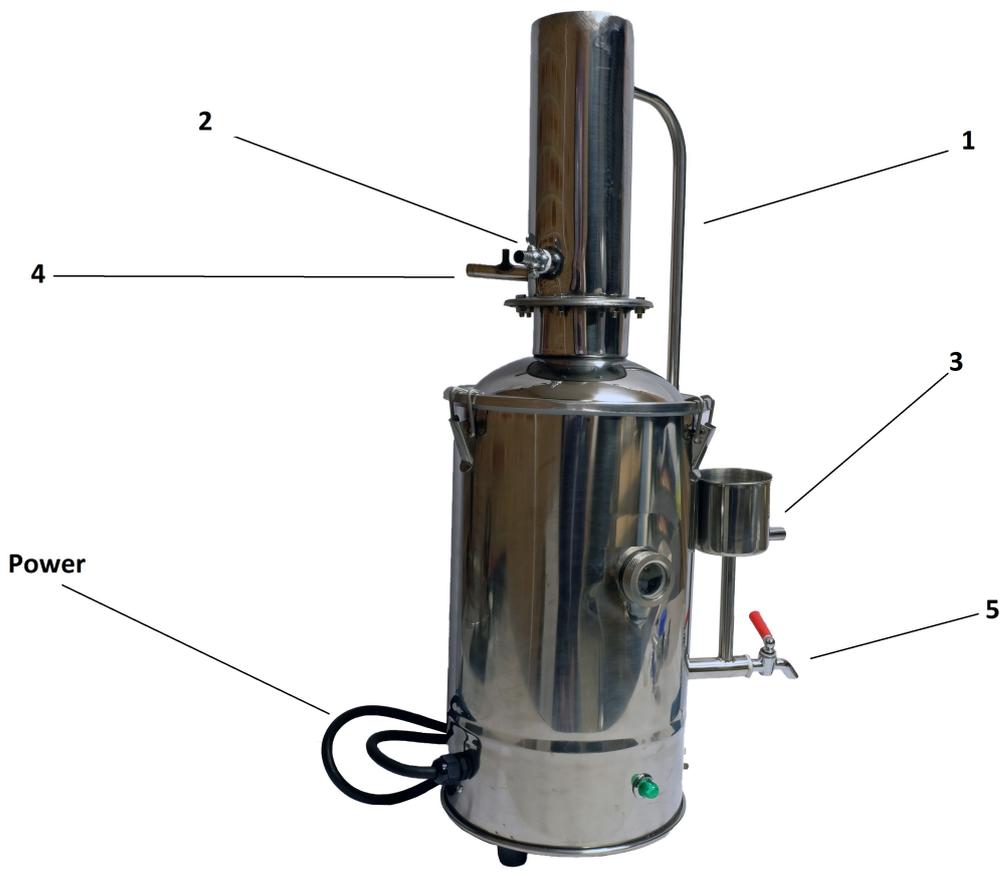


1052956 Water Still - Instructions



GENERAL DESCRIPTION

Dimensions : Height 680mm **Diameter :** 250mm **Mass :** 3.5.kgs

The still is robustly constructed and designed to provide an uncomplicated easy to use apparatus to produce distilled water in any laboratory situation where there is a clean and potable water supply available at mains pressure. Constructed almost entirely of polished stainless steel the unit consists of two principal components, the boiler unit which forms the base part and the condenser unit which conveniently fits on to the boiler and is secured with three clips. Each water still is supplied with tubing connected and instructions on how these are set up prior to actually operating the unit. A tundish constant level cup is fitted to the side of the boiler and plumbed in such a way as to ensure atmospheric pressure is maintained throughout the unit and also to ensure the boiler unit is kept to a constant pre determined safe water level.

CONNECTION

There are five connection points and these are fitted with tubing marked from 1 – 5 to assist you in making sure the still is correctly configured.

1. Inlet to be connected to mains tap (long tube fitted to top of condenser)
2. Outlet from condenser to be connected to tundish cup on the side of the boiler and above the boiler drain tap.
3. Outlet from tundish cup to sink
4. Distilled water outlet for collection and use
5. Boiler drain tap used when ALL distillation is completed and the power turned OFF to drain residual water from the boiler.

OPERATION

1. Ensure that the boiler tap is in the OFF position
2. Connect all tubes and ensure they are secure (dipping the ends of the tubing in hot water before sliding onto their correct inlet/outlet tubes on the still will assist in making a tight fitting joint, or small metal tubing clips can be used where you require a strong permanent connection. Inlet taps are many and varied and as there is no universal connector you may need to obtain a suitable fitting from your hardware store or if a connection problem still exists please contact us for further assistance.
3. Make sure the top condenser unit is correctly fitted to the top of the boiler and the three clips are secured down locking the condenser to the boiler unit.
4. When you are sure all connections are secure and correct turn on the mains tap just a small amount to start with and increase gradually until you get a nice even flow and check the boiler level window on the side of the boiler to see that the water level is half way up the window....it should remain constant.

5. If the water level falls increase the water flow using the tap
6. Make sure the outlet tube is in the sink and the distilled water delivery placed into a suitably large container as the distilled water will flow quite quickly once the unit has been in operation for some time.
7. Perform a quick check, plug in the mains lead and turn on the power.
8. Distillate will start forming after about 8 minutes....whilst the still is designed to operate independently once all adjustments are made to water flow we advise frequent checking and supervision throughout the distillation process
9. When your distilling session is complete turn off the power, remove the lead from the power point and drain the boiler tank.

MAINTENANCE

Caring for your still is quite easy.....ensure it is drained after use and a wipe over with a damp cloth will keep it clean.....external use of stainless steel cleaners is acceptable however it is important to keep the internal components clean and free from contaminants. After some months or even years the internal boiler may accumulate scale....this is easily removed with a very weak 3% hydrochloric acid wash however you must ensure the unit is completely flushed with clean water so the internal still parts are not contaminated in any way.

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