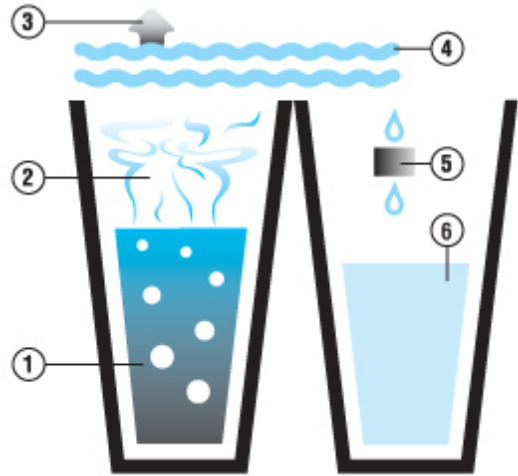


# THE DISTILLATION PROCESS

## Steps of the Distillation Process

1. Ordinary tap water is heated to 212° F (100° C) killing microbes such as bacteria, cysts and viruses that may be present.
2. Steam rises leaving behind dead microbes, dissolved solids, salts, heavy metals and other substances.
3. Low boiling light gases are discharged through a gaseous vent.
4. Pure steam is condensed.
5. Purified/distilled water then percolates through a coconut shell carbon filter, enhancing quality by aeration, degasification, and adsorption of VOCs (volatile organic compounds).
6. The 100% steam distilled water is now ready for drinking and cooking.



## Removing Volatile Organic Compounds (VOCs)

**Volatile Organic Compounds (VOCs)** which may be present in tap water normally boil off and vaporize during the warm-up cycle and are vented (*step 3*) into the air. If any VOCs carry over with the distillate, they can be effectively removed with an optional carbon post filter (*step 5*). Carbon enhances taste and purity by adsorption, aeration and degasification.

Many ordinary tap waters contain virtually no or extremely low levels of VOCs. Most VOCs are measured in parts per billion and are virtually undetectable when vented during the distillation cycle. Far more VOCs may be discharged into the air from running hot tap water or from a hot shower. If airborne volatiles are still a concern, use of a carbon pre-filter will significantly reduce VOCs prior to distillation. The distiller could also be used in a remote location (i.e., utility room, garage, or a screened porch).

Most quality countertop, batch type distillers have coconut shell carbon post filtration to effectively remove VOCs. Another option to consider would be a direct line hookup, fully automatic distiller with an in-line carbon pre-filter.

**NOTE:** Carbon filtration before distillation is highly recommended if there are known or suspected high concentrations of VOCs where you live.

The [Waterwise Distiller](#) and other [Waterwise products](#) are available through [Hallelujah Acres](#).

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