

PURIFYING AND ENERGY-SAVING WATER FOUNTAIN CAPABLE OF
SUPPLYING ICY, WARM AND HOT DISTILLED WATER

ABSTRACT OF THE INVENTION

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A distilled water fountain which is capable of supplying the users with purified icy, warm and hot drinking water and composed of a pre-heating exchanger, a condensing-and-heating exchanger, a distilled water tank, a steam generator, and an electronic chilling device. Running water flows into the pre-heating exchanger through water intake pipe, and further flows through the condensing-and-heating exchange into a steam generator wherein the water is vaporized and then condensed into distilled water for storage in the distilled water tank. The stilled water may be made available directly in warm water condition, or may be cooled into icy water through electronic chilling device, or heated into hot water through steam generator for drinking by users.

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