

発明名称： 磁気エネルギーの瞬間熱水器装置

The magnetic energy type instant water heater utilizing an alternating current in an inductive coil to generate joule heat in heat exchanger metal plate to heat water directly

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説明

This is an instant water heater used for the kitchen and shower. It provides alternating electromagnetic energy to a specially designed heat exchanger with high efficiency. The characteristic of the device is that it utilizes the alternating current to lead in an inductive type heating coil to generate alternating magnetic lines so as to act on the heat exchanger made from magnetic-permeable metal board to generate eddy current on the said metal board surface. Therefore, the eddy current I changes its direction rapidly and works with the resistance R of the metal board of the heat exchanger to generate joule heat for heating the metal board. Thus, room-temperature water flowing in the heat exchanger is heated instantly to hot water with temperature around 40~55 DEG C in order to supply hot water to necessary devices.

