

ABSTRACT

An electric water heater includes a partition unit that is mounted within a water container. The partition unit and the water container define a water entry space, an instant heating space that communicates with the water entry space, and a water exit space that is disposed above and communicates with the instant heating space. The partition unit has an elongated opening that interconnects the water entry space and the instant heating space. A heating tube subunit extends into the instant heating space, is spaced apart from the elongated opening, and is adapted to heat water. A ratio of a length of the elongated opening to a length of the instant heating space ranges from 1:2 to 4:5.

Fig. 2