

ABSTRACT**METHOD FOR DETECTING WATER LEVEL OF HEAT TRANSFER TUBES AND METHOD
FOR INSPECTING HEAT TRANSFER TUBES**

The present invention provides a method for detecting a water level of a plurality of heat transfer tubes extending downward from a header lying in a horizontal direction. The method includes: a transmission process of continuously transmitting ultrasonic waves upward from an ultrasonic sensor to a lower surface of an inspection nozzle horizontally protruding from the header; a drainage process of performing drainage from the heat transfer tubes and the header; a drainage stoppage process of stopping the drainage at a point in time when a state in which a reflected signal of the ultrasonic waves is detected by the ultrasonic sensor changes to a state in which the reflected signal is not detected due to the drainage; and an opening process of opening at least a part of the inspection nozzle after the stoppage of the drainage.

(FIG. 3A)