

Title (en)  
WATER HEAT EXCHANGER AND HOT-WATER HEAT SOURCE DEVICE

Title (de)  
WASSERWÄRMETAUSCHER UND HEISSWASSERWÄRMEQUELLE

Title (fr)  
ECHANGEUR DE CHALEUR A EAU ET DISPOSITIF DE SOURCE D'EAU CHAUDE

Publication  
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Application  
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Abstract (en)  
An object of the present invention is to provide a water heat exchanger that can efficiently exchange heat between water and a refrigerant and that is simple to manufacture. A water heat exchanger (22, 52) of the present invention is a water heat exchanger (22, 52) that exchanges heat between a refrigerant and water and comprises a pair of refrigerant pipes (22a, 52a) and a water pipe (22b, 52b). The pair of refrigerant pipes (22a, 52a) each are a many holed flat pipe (41A, 41B, 71A, 71B) that has a plurality of refrigerant passageway holes (47) wherethrough the refrigerant can flow. The water pipe (22b, 52b) is a sparely holed flat pipe (42, 82, 92). The sparely holed flat pipe (42, 82, 92), wherethrough the water can flow, has fewer water passageway holes (48) than the refrigerant pipes have refrigerant passageway holes. Furthermore, in a cross section, the long side surfaces of the water pipe (22b, 52b) and one of the long side surfaces of each of the pair of refrigerant pipes (22a, 52a) are in tight contact with one another. Furthermore, the water pipe (22b, 52b) is interposed by the pair of refrigerant pipes (22a, 52a).

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