

【ABSTRACT】

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Disclosed is an air conditioning system using a dehumidifying cooling device which comprises; a heating source for producing hot water having a predetermined temperature, a heat exchanger for transferring heat from the hot water produced by the heating source to circulating water, a circulation pump for circulating the resulting hot water heat exchanged in the heat exchanger by a predetermined pressure, a heating pipeline for conveying the hot water to a heat supply target area or withdrawing used water from the heat supply target area, a user heat exchanger for conveying the hot water from the heating pipeline to the heat supply target area, and a dehumidifying cooling device serving to remove moisture contained in air by use of the hot water supplied from the hot water pipe. In the air conditioning system using the dehumidifying cooling device installed to each household, hot water, produced by large-scale or small-scale district heating facilities, or a gas or oil boiler installed to each household, is supplied into the dehumidifying cooling device, so as to be utilized for the production of cooling air.



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