

Abstract

The present invention relates to a control system for adjusting air temperature, humidity and water temperature by an outdoor air heat exchanger, comprising an air conditioning apparatus, a heat exchange apparatus and an outdoor air heat exchanger. The air conditioning apparatus comprises: a gas recovery apparatus, a gas refrigerating and dehumidifying apparatus, a gas supply apparatus and a compressor unit; the gas refrigerating and dehumidifying apparatus and the compressor unit are connected in series to a first heat exchange apparatus to form a refrigerant system; the outdoor air heat exchanger is connected in parallel to the refrigerant system; the control system is enabled based on different set values of indoor humidity, water temperature and/or room temperature, and particularly makes use of the heat absorption and heat dissipation functions of the outdoor air heat exchanger to control water temperature and/or room temperature.

(Figure 1 accompanies the abstract)