

태양열 온수 순환펌프로서의 버블펌프에 관한 연구

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A Study on the Bubble Pump for Solar Heating System

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ABSTRACT: Purpose of this study composes is solar heating system using bubble pump and confirm whether bubble pump is can be used as a working fluid pump. Device was consisted of working fluid pump, solar collector and heat exchanger. Solar collector system have a vacuum tube, and bubble pump manufactured by steel. One part manufactured by glass to see inside of pump and made level meter to check water level. At the mean time, we attached temperature sensors and pressure sensors at upper part and lower part of bubble pump. In addition, the flow meter was installed at outlet of heat exchanger heat exchanger. And then, we measured flow rate of working fluid. We analyzed floe rate, temperature and pressure. So, ascertain whether bubble pump can be used for the circulation of system

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