

유기성 폐기물 재활용을 위한 마이크로파 건조장치의 특성 분석
The Characteristic Analysis of Treatment of Organic Wastes
in a Microwave Dryer

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The development of a high efficiency dryer is a important technology to attain the saving of energy and the efficiency improvement in drying industries. In particular, a microwave drying technology using organic wastes can accomplish the increasement of energy efficiency as well as the reduction of drying time. In this study, the drying characteristics of organic wastes using the microwave dryer according to the output of a microwave device has been investigated. The maximum efficiency of a drying device has also been demonstrated under the experimental data. The output of microwave was in inverse proportion to drying time at the period of constant drying and the drying effect appears obviously. However, the increasement of the microwave output couldn't contribute to reduction of moisture content of drying materials.