

A SIMPLE MODEL FOR FINDING EFFICIENCY OF UNIFLOW CYCLONE

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ABSTRACT

A simple model developed analytically for determining the uniflow cyclone efficiency. This model used the flow field's information from recent studies. Tangential velocity measured experimentally and compared with existing models for using proper flow field's information. This model considered all the parameters involved with out any simplification. The comparison with different experimental results have proved that this model useful in predicting separation efficiency of gas uniflow cyclone. The sensitive analysis shows that this model responds well to the changes of uniflow cyclone geometries.