

ABSTRACT

FIXED-BED MULTI-TUBULAR REACTOR FOR PRODUCING ALKENYL ACETATE

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Provided is a reaction apparatus capable of correctly measuring a catalyst layer temperature inside a reaction tube even when a process operation for a long period of time is carried out to produce an alkenyl acetate by a gas phase catalytic oxidation reaction of a lower olefin, acetic acid and oxygen using a fixed-bed multi-tubular reactor. A fixed-bed multi-tubular reactor for producing an alkenyl acetate according to one embodiment comprises a plurality of reaction tubes, a thermometer protection tube inserted into at least one of the plurality of reaction tubes, a thermometer inserted into the thermometer protection tube, and a shield disposed above the reaction tube into which the thermometer protection tube is inserted and attached to the thermometer protection tube, wherein an effective projection region of the shield entirely covers the inlet opening of the reaction tube into which the thermometer protection tube is inserted.

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Fig. 1