DESIGN BUILD DRYERS PADDY USING SOLAR COLLECTOR TYPE V-CORRUGATED ABSORBER FOR INCREASE PADDY PRODUCTIVITY

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Abstract

Grain was drying process still use traditional method. Meaning of traditional method was dried on bottom sun radiation directly, that method was easy and cheap. But, many disadvantage derived from that method such as: (1) grain drying takes about 3 days to dry ; (2) depending on the weather, if the weather was cloudy, grain drying process will be more than one week ; (3) grain quality also can not be dried evenly and ; (4) productivity of rice, respectively (Andisura. 2012). To reduce these disadvantage, needed design system of grain drying machine as integrity grain drying machine which appropriate and reversible, the manufacturing process in order to obtain grain drying machine was efficient.

Paddy drying machine use sun collector type of v-corrugated absorber help farmers to reduce them problem. Use sun collector type of v-corrugated absorber because the shape sun collector was V with wave toward horizontal on sun collector, increase absorption of radiation heat transfer, so that the resulting optimal heat absorption (Azharul.2004). Advantage that machine has capacity grain 100 kg of wet grain, and paddy good quality.

Keyword : paddy drying machine, V-Corrugated Absorber
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