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Baidhe, E.; Clementson, C.L.; Senyah, J.; Hammed, A. Appraisal of Post-Harvest Drying and Storage Operations in Africa: Perspectives on Enhancing Grain Quality. *AgriEngineering* 2024, 6, 3030-3057. <https://doi/10.3390/agriengineering6030174>

Baidhe E, Clementson CL, Senyah J, Hammed A. Appraisal of Post-Harvest Drying and Storage Operations in Africa: Perspectives on Enhancing Grain Quality. *AgriEngineering*. 2024; 6(3):3030-3057. <https://doi/10.3390/agriengineering6030174>

Baidhe, Emmanuel, Clairmont L. Clementson, Judith Senyah, and Ademola Hammed. 2024. "Appraisal of Post-Harvest Drying and Storage Operations in Africa: Perspectives on Enhancing Grain Quality" *AgriEngineering* 6, no. 3: 3030-3057. <https://doi/10.3390/agriengineering6030174>

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Active, passive, and hybrid solar-powered dryers with direct or indirect heat transfer techniques, as well as forced or natural air circulation, are shown in Fig. 1. It is acknowledged that the most crucial variable of the process is the air used for drying, which is hot and contains little moisture. Moreover, the drying rate rises as the drying air temperature and air velocity rise [14].

NCDs allow ambient air to flow through bottom-mounted adjustable vents. The air is heated inside the solar

collector before rising into the chamber to dry the food. It then leaves through the chimney. Therefore, it is also known as a passive solar system. It does not use any mechanical equipment to regulate how much air enters the dryer and does not use any additional energy while it is in use [15, 16]. Figure 2 depicts the flow diagrams of natural convection solar dryers of both direct passive and direct active types.

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