

Title Development of longan batch type dryer for farmer
Author Sanong Amaroek, Kiangsak nakpook and Weang Arekornchee
Citation Proceedings of the 9th Conference of Thai Society of Agricultural Engineering 2008, The Imperial Mae Ping Hotel, Chiang Mai, Thailand, 31 January – 1 February 2008. 203 p.
Keywords batch type; dryer longan

Abstract

The main objective of this research was to test and develop 2-ton batch type dryer by inversing the hot-air without turning longan. The dryer developed consists of four part : inversing air, batch, hot air circurate and batch cover. Based on the drying of fresh longan [E-Dor] 2 ton dried air temperature was at 65-70 deg C and supplying of hot air at constant velocity 2 m/s. It was found that the drying time with the initial moisture content of 76 %wb down to the final moisture content of 14% wb was about 50 hours. The longan drying cost of 1.77 baht/kg.-fresh is found which is rather low compared with batch dryers cost of 2.03 baht/kg.-fresh. The dry product quality is acceptable and the break even is found when 29 batch of drying is taken.