AGRICULTURAL MECHANIZATION DEVELOPMENT PROGRAM

Institute of Agricultural Engineering
College of Engineering and Agro-Industrial Technology
University of the Philippines Los Baños
College, Laguna, Philippines

UPLB FLATBED DRYER

For more information, contact:

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FEATURES:

- Low cost, compact and portable
- Uses locally available materials
- Needs little maintenance and easy to operate
- Dries 40 cavans of paddy per batch in eight hours
- Gives uniform final moisture content
- Has automatic safety feature to shut off burner
- Choice of heat source: kerosene or rice hull furnace

SPECIFICATIONS:

Power: 3 hp electric motor or 5 hp gasoline engine
Main Components: 1) bin to hold the grain on a perforated or lanced sheet metal
2) fan to force drying air
3) burner or rice hull furnace to heat the air
Grain Floor: 2.38 mm diameter perforated steel sheet, 0.76 mm thick
Fan: 58 cm diameter vane axial type
Airflow: 3,000 cfm
Drying Rate: 26% MC (wet basis) palay to 14% MC in eight hours
Fuel Consumption: Kerosene – 1.5 to 2.0 l/h
Rice hull – 14 kg/h

Dimensions (cm): | Fan | Burner | Drying bin |
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<td>Length</td>
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<td>Grain Depth</td>
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