Grain Boiler

LabSys®
Technology Benefiting Humanity
A Brand of
LUXLIGHTING TECHNOLOGY PRIVATE LIMITED



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Labosys® Grain Boiler is a robust and efficient steam/heat generation solution designed for grain processing, agricultural applications, food processing and industrial operations requiring controlled heating and steaming.

Engineered for reliable operation, the system provides controlled thermal energy for processes such as paddy parboiling, grain conditioning, steaming, drying, animal-feed processing and other heat-intensive applications.

➢ KEY FEATURES

- Stainless-Steel Construction
- Controlled Steam & Heat Generation
- Digital Temperature / Process Monitoring
- Pressure Monitoring & Safety Controls
- Compact & Mobile Design
- Easy Operation & Maintenance
- Suitable for Industrial & Agricultural Applications
- Designed for Consistent Processing
- High-Temperature Steam Processing
- Hygienic and Easy-to-Clean Construction

➢ APPLICATIONS

01. Paddy Parboiling: Provides controlled steam and heat for paddy soaking and steaming, supporting starch gelatinization and helping improve grain strength during subsequent milling.

02. Grain Conditioning: Used to introduce controlled heat and moisture into grains before processes such as de-husking, splitting, milling or pelletizing.

03. Grain Drying & Moisture Control: Can be integrated with suitable heat-exchange systems for controlled grain drying and moisture management, helping support product quality and storage stability.

04. Animal Feed Processing: Steam can be used during feed conditioning and pelletizing to improve moisture distribution, starch gelatinization and process hygiene.

05. Rice & Food Processing: Suitable for applications requiring controlled steam or hot-water processing of rice and other cereal-based products.

06. Brewing & Grain-Based Processing: Can provide process steam for suitable grain-processing operations, subject to the required steam quality, pressure and system configuration.

➢ GRAIN PROCESSING APPLICATIONS

Labosys® Grain Boiler can be configured for various thermal processing requirements, including:

Raw Grain → Conditioning → Steaming / Heating → Processing → Drying → Finished Product

The controlled application of heat and moisture helps improve process consistency while supporting efficient industrial production.

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➢ TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Type	Labosys® Grain Boiler
Application	Grain Processing / Steam & Heat Processing
Operation Type	Batch Type
Capacity	100–500 Kg/Batch*
Material of Construction	SS 304 Stainless Steel
Heating Method	Steam / Electric Heating – As per Model
Working Temperature	Up to 100–120°C*
Working Pressure	Up to 1.5–2 Bar*
Temperature Control	Digital Temperature Controller
Power Supply	220–240 V, 50 Hz*
Customization	Capacity, Heating System & Dimensions as per Requirement*

➢ WHY LABOSYS®?

- **Reliable Engineering:** Designed for demanding industrial and agricultural processing environments.
- **Process Control:** Controlled temperature and pressure monitoring helps maintain consistent processing conditions.
- **Application Flexibility:** Suitable for multiple grain-processing and steam/heat applications.
- **Easy Operation:** Simple controls and accessible components support convenient operation and maintenance.
- **Custom Engineering:** Configurations can be adapted to specific capacity, pressure and process requirements.

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