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USE

The micromalting machine is a laboratory equipment used for micro malting tests. The machine is designed to study properties and verify performance of different barley under various process conditions. Through the small-scale micromalting tests this is possible to adjust an optimum technology for the large-scale malting production.

DESCRIPTION

The micromalting machine in itself is a set of five basic parts: three independent process boxes (steeping, germinating and kilning), operating and control unit and a PC set (PC, monitor, printer, keyboard, and mouse). All process boxes are stainless steel equipped with own cooling and heating units. Suitable insulation prevents heat losses and makes them independent on ambient temperature.

Each process box contains 8 (16) sample containers with a removable bottom. One container accommodates 1.0 (0.5) kg of barley. Due to unified dimensions all containers are applicable for any process box. There is no need to move barley from one container to another during the micromalting process.

All process components are located inside the boxes and secured with removable covers. Individual parts of the micromalting machine, i.e. process boxes, control panel and PC are connected with cables. The whole technological process is operated by a programmable control unit with an automatic control and monitoring system.

Basic features of the control system software:

- Complete manual and automatic process operation
- Collection, evaluation and transmission of process data
- Process diagnostic system
- Adjustment of process parameters and their limits
- Display of actual process course and parameters value
- Protocol prints of non-conform states, operator interventions and process parameters
- Storage of selected data in local database
- Sheet and print reports with the customer's logo

MAIN FEATURES

- High technical level and reliability
- User friendly operation and visualization (modifications on request)
- Minimum requirements on civil work for machine installation
- Variable layout to fit clients room
- Easy assembly, installation and operation

ACCESSORIES

The machine is normally supplied with a spare parts set for two-year operation, operational and maintenance manuals included.

OTHER APPLICATION

The micromalting machine can be used for other cereals as well, a customer is however advised to consult this usage with the manufacturer.



PARAMETERS

Process box dimensions	1,155 x 645 x 1,050 mm
Process box weight	max 175 kg
Installed input	4.7 kW
Water supply	pressure 0.3 - 0.6 MPa, consumption 10 litres/min

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