

DIGESTER

All manufacturers of pulp and paper products understand the need for lab-scale wood-chip cooking processes.

The M/K laboratory digester is the most widely used instrument of its kind. Continuous refinement in materials and design have made it the industry standard.

Concept

The instrument consists of a pulping vessel, auxiliary tanks and a controller.

The cooking vessels are rated to a maximum pressure of 20 bar. They can be coated with a variety of corrosion resistant coatings and are available in many different capacities.

Each vessel is equipped with its own 4 liter/minute magnetically coupled recirculation pump and a heater in a single cartridge.

The wood chips are held in a basket set inside the digester vessel. A perforated plate on top of the chips distributes the cooking liquor. To speed up liquor penetration into the chips, lines are provided for the evacuation of air or for pre-steaming.

The entire system is monitored by the electronic controller that adjusts cooking temperatures and heating times.

Multi-vessel systems have been developed to simulate real digesting processes.

In a multi-vessel system, the vessels can be interconnected for use as pre-heating vessels or blow tanks. A multi-vessel system is effectively a small pilot plant.

Models

- One vessel, 6.5 l capacity
- Two vessel, 6.5 l capacity
- One vessel, 10 l capacity
- Two vessel, 10 l capacity
- One vessel, 20 l capacity
- Two vessel, 20 l capacity



Double vessel model

Features

- Self-contained, laboratory size digester provides realistic chip-cooking capabilities
- Pressure vessel remote from controller for safety reasons
- Single and double vessels are available in capacities of 6.5, 10 and 20 liters
- Dual input programmable controller with up to 99 user defined profiles
- Printer port for user defined variables
- Designed and manufactured to ASTM Pressure Vessel Code, all 316 stainless steel

Physical specifications

Depends on system you choose, for example for 2 vessel system :

Dimensions

100 x 100 x 167 cm (WxDxH)

Net Weight

230 kg

Options

- Flow meter : for visual indication of flow through circulation loop
- Sampling system

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