



Intelligent Laboratory Digester (PL1-2)



1. Description:

PL1-2 electric cooking pot is simulated in the production of steam ball working principle design, the pot body to make circumferential motion, make slurry for well mixed, suitable for papermaking laboratory to acid or alkali cook for a variety of fiber raw material, according to different requirements of the process can be expected to plant size, thus for the production of process of the development of cooking process provides a basis. Can also be used for other work pressure is not more than 8Kg/cm² liquid raw materials, cooking. In addition to the cooking device can also be used for other equipment with hot steam laboratory.

The pot body is made of 316L stainless steel, corrosion resistance.

2. Structure and performance characteristics:

The pot body, raw material and the liquid medicine can be fully mixed by pot rotary movement, liquor concentration, temperature uniformity, the pulp quality is relatively uniform. Small liquid ratio, liquid concentration is higher, shorten the cooking time.

User friendly human-machine interface, touch screen and operation prompt display enable users to operate the recorder conveniently without special training. Abundant alarm output modes, 9 types alarm mode can be selected freely.

Display is bilingual in English and Chinese.



The outputting control methods adopt PID control, step-control (on/off), auto-tuning, manual, etc. The recorder has the function of programmable PID control, and the program are up to 100 segments. It also can provide sensor power supply.

Flexible data storage: The internal storage capacity is 32MB per channel, each channel has independently adjustable record interval (1~3600 seconds is optional), and the record time is 95.5 days to 941 years based on the record interval. Users can choose channel and record interval to store data according to actual application. Adopt large capacity FLASH memory, the data can be stored forever when the power is cut off. Adopt USB interface technology, the history data can be directly transferred to the U-disk when the U-disk is inserted to the recorder, which can provide us longer record time.

Convenient data processing: The data or curve on the screen can be captured and then copied to PC to print. The communicate mode (RS232 or RS485 or LAN MODBUS TCP) can be set in the system configuration, no need opening the cover. RS232 communication interface is used to connect with portable computer or PDA to upload the real-time/history data, and through paperless recorder management software or U-disk acquisition software we can analyze, store, and print the data. RS485 or LAN (Ethernet) communication interface is used to connect with the professional configuration software, such as King-configuration, MCGS (monitor and control generated system), to make up real-time monitor system.

3. Parameter:

- 1). Cooking pot capacity: 15 L
- 2). Max. working Pressure: 8Kg / cm²**
- 3). Cooking Pot Speed: 1rpm
- 4). Heating Power: 4.5KW
- 5). Motor Power: 370W
- 6). Precision of Temperature: $\pm 0.1^{\circ}\text{C}$
- 7). Control Precision of The Temperature : $\pm 3^{\circ}\text{C}$
- 8). Dimensions: 1250mm×610mm×1120mm;
- 9). Net weight: 340kg;
- 10). Gross weight: 420kg.

5. Digester cells (PL17) (It can be put into lab rotary digester for working together.)



- 1) Volume: 1.5L each cell, 4cells totally;
- 2) Working pressure:8kg/cm²
- 3) Total weight: 16kg.

6. Oxygen Bleaching digester cells (PL18):



- 1). Volume: 1L each cell, 4cells totally;
- 2). Working pressure:8kg/cm²
- 3). Total weight: 16kg.

