



ACA-90

| Automated Calcimeter

☰ Details Info

Features

It concerns an apparatus measuring the calcium carbon rate in the samples of sediments or drilling core by the measurement of the carbon dioxide pressure emitted after an hydrochloric acid injection (Method based on ASTM D4373-02). For each sample it gives the mass, the rise pressure curve on 100 points and the calculated rate. By eliminating tedious handling of the Chittick apparatus, it strongly reduces times of measurement. Moreover connected to a PC, it allows a data processing by computer.

ADVANTAGES

- Samples - 90 mg to 1,1 g in 3 ranges
- Removable carousel of 20 samples
- Automatic management of the system by a microcontroller
- Possibility of optimizing the parameters of measurement manually
- Hydrochloric acid proof PVC case
- Delivery with an adapted scales
- Optional extra: PC software for data processing by computer.

- Automatic acquisition of the samples masses resulting from a scales with a RS232 connection or manual acquisition directly by the keyboard
- Output the data and results toward a PC using another connection RS232 with the possibility of direct reading of the masses and rates on the calcimeter screen
- Automatic adjustment of acid quantity and measure volume according to the sample mass
- Conversational programming by a 16 keys keyboard and a LCD screen of 2 lines

- Possibility of choosing the number of samples to be measured
- Choice of the measurement time according to the quality of the sediments
- Display of the pressure on LCD screen during the reaction

Specifications:

| | |
|------------------------------------|---|
| Case | |
| Matter | white and grey PVC |
| Dimensions (L * W * H) | 410 * 570 * 290 mm |
| Mass | about 10 kg |
| Front side | inclined to 45° for a good reading, with screen and keyboard |
| Measure | |
| Samples masses ranges | range 100 mg - 90 to 150 mg range 250 mg - 200 to 300 mg range 1 g - 900 to 1100 mg |
| Pressure | 0 to 500 hPa by electronic sensor |
| Measurement range of CACO3 rate | 8 to 100 % |
| Precision of the rate in the range | +/- 4% |
| Mechanical part | |
| Move of the carousel | by motor step by step |
| Injection of acid | by peristaltic pump |
| Sealing of the bottle | by peristaltic pump pneumatic jack and latex joint |
| Electronic part | |
| Supply voltage | 230 VAC +/- 10% in 50 Hz |
| Supply current | average 65 mA, maxi 180 mA |
| Protection | Fuse 1A |
| Management | by microcontroller |

| | |
|-------------------------|-------------------------------------|
| Programming | by questions/answers |
| Data and results saving | last carousel (more than one month) |

Accessories delivered with the standard calcimeter

1 carousel, 21 bottles, 1 bottle for acid with tube connection, 1 supply cable, 2 tubes for air pump for jack with 4 clips, 1 user's guide"
Option: scales - 150g by 0,001g, PC software and 2 cables RS232 for scale and PC,,"

Accessories and consumables

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|---|
| Carousel |
| Set of 21 bottles |
| Head of acid pump |
| Bottle for acid (0,5 l) |
| Tube connection for acid |
| Cable RS232 3 meters |
| Pc Software |
| Jack |
| Pressure sensor |
| Air pump for jack |
| Tube for air pump for jack + 2 clips |
| Tube for acid pump with 2 stainless connections |



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