

FLUSHING PUMP PRC14

For regular maintenance of HAGUE 7000 bubblers

Our HAGUE 7000 bubblers use the principle of bubbling in soda solution to trap atmospheric carbon 14.

This technique, which is very efficient, nevertheless generates a progressive deposit of solid matter in the sampling circuit, which must therefore be cleaned regularly.

This pump, specially designed for this purpose, allows this preventive maintenance to be carried out on the pipes of the HAGUE 7000 bubbler, in a quick and easy way for the operator.



OPERATING PRINCIPLE

The soda solution bubbling technique used in our HAGUE 7000 bubblers allows a fast and efficient capture of atmospheric Carbon 14.

However, the bubbling in the bottles generates micro-droplets of solution, which are carried away and deposited in the circuit, leaving a deposit of solid materials (hydroxide and sodium carbonate) in the sampling circuit when drying.

This progressive deposition can clog the sampling circuit after a certain operating time. It must be cleaned periodically to avoid total obstruction. The recommended cleaning frequency is at least once a month (the deposition rate depends on the soda concentration and the sampling rate).

The PRC14 flushing pump has been specially designed to flush pipes on HAGUE 7000 bubblers using a dilute acid solution. This operation dissolves and removes solid deposits that have accumulated inside the \varnothing 3 mm stainless steel pipes and in the drilled block, mainly between pots 1 and 2.



TECHNICAL SPECIFICATIONS

CIRCULATION PUMP :

- Self-priming centrifugal pump
- Power supply: 12 Volts DC / 1,5A
- Pump output: 10 litres/hour
- Volume of buffer tank: 360 ml
- Connection: by 6x3 mm diameter crystal PVC tubes
- Power supply: 100 to 240V / 50 to 60 Hz
- Painted aluminium case
- Overall dimensions: LxWxH = 24x24x32 cm
- Weight: 3,1 kg

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