

MODERNWATER

UVI 4000

Compact, easy-to-use bench top UV digester

Modern Water's UVI 4000 digester is ideal for aqueous samples with slight to medium contamination from organic material. The unit provides a quick and easy way to remove this interference to achieve more accurate sample analysis. The UVI 4000 is a compact, bench-top device which needs no special set-up or protective arrangements to use.

Process Explained

Many water samples contain organic constituents which bind to the metals ions and can interfere with the analysis. For samples with low-to-medium contamination (a TOC of 100 mg/L or less), UV digestion provides a simple way to break down these components, leaving the metals free for accurate measurement.

Exposing a water sample to UV light is a convenient treatment method, and means that almost any sample with organic matter can be digested without the need for more complicated handling.

- Small footprint
- Bench-top design (no need for protective glasses or fume cupboard)
- Easy to run - simple five button set-up
- Direct sample input/output
- USB link to computer running Windows
- Dynamic updating display



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Process explained

The UVI 4000 comes complete with a manual and an installable program (diagram on right) which displays the process as it happens, and uses simple coloured buttons for set-up.

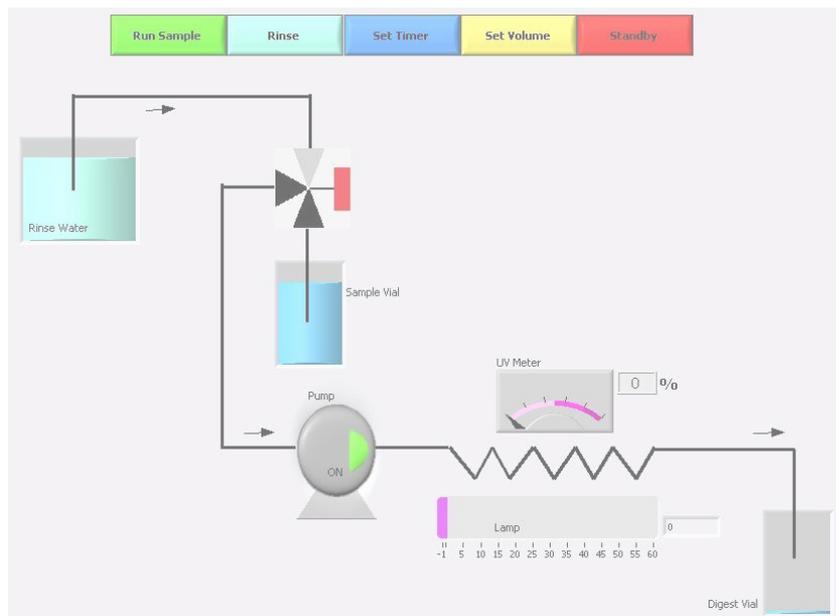
The control program is designed to be compatible with Windows XP and Windows 7.

Sample output volume is fully controllable (from 10 to 100 mL), as is the length of time for irradiation (from one to sixty minutes, though most samples should only need ten minutes). A rinse water bottle and all the required tubing are provided in the kit, plumbed in and ready to go.

An indicator lamp on the UVI 4000, as well as the computer display, shows when the UV-lamp is ready (and if it needs replacing).

With its automatic mains adjustment, the UVI can safely be plugged in anywhere in the world, from the USA to Australia, without the need for manual intervention.

For more contaminated samples, sodium persulphate can optionally be added to increase the effect if required.



UVI SPECIFICATIONS

Dimensions	32 x 25 x 11 cm (L x W x H)
Weight	2.95 kg (unboxed); 7 kg (boxed)
Lamp Life	> 5,000 hours
Materials	PTFE, FEP, quartz (wetted parts)
Power	90 - 260 VAC (automatic)
Colour	Light grey
CE Compliant	YES
Output Volume	Variable (10 - 100 mL)
Digestion time	Variable (1 - 60 minutes)
Communications	Windows compatible program, USB lead
Ambient Temperature	5 - 30°C
Packing	Sturdy cardboard box

Applications

- Academic research
- Groundwater and industrial effluent
- Waste water recycling and WWTP monitoring
- Water companies
- Nuclear reactor plants



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