

# AOX Sample Preparation

Take the fast lane to success with Analytik Jena's APU sample preparation systems

Our APU systems minimize downtime while you increase throughput of AOX samples and remain flexible and cost-effective.

## Your benefits

- Automated enrichment of up to 28 samples acc. to column method (DIN EN ISO 9562)
- Ideal for unattended 24/7 operation
- Extremely robust, suitable for particle-containing and saline samples
- Minimum maintenance effort and down times
- Column flexibility – suitable for all brands of AOX columns
- Suitable for AOF sample preparation - ultralow system blank



## APU 28 Series – Fully automated sample preparation according to column method

The systems are universally applicable, not only ideal for AOX sample preparation, but also for enrichment of samples to determine the new, increasingly important environmental parameter AOF. Sample and rinsing volumes are individually selectable.

### APU 28 – The basic one

Processing of up to 28 samples takes place in immediate succession, thus the first samples are available within a few minutes.

### APU 28 S – The fast one

This is the optimal solution for high-throughput applications. Simultaneous preparation of 2 samples – up to 112 samples per day – double your

profitability. With APU 28 S you can quickly process a high number of samples without manual interventions.

### APU 28 SPE – The versatile one

The system is ideal for samples with high saline content. It enables standard AOX and SPE-AOX sample preparation with one and the same device. Workflow is fully automated: adsorption at the SPE column, elution and adsorption at the active carbon are all managed automatically without manual intervention.

### APU 28 flexi – The new flexibility

All APU 28 devices can be used with AOX adsorption columns of other manufacturers. A flexible tray and optimized column holders enable fast and easy processing of column sizes of 40 mm x 9 mm and 47 mm x 6 mm.



**APU sim –  
ideal for small sample series**

APU sim offers the simultaneous and fast enrichment of up to 6 samples using the column method or semi-automated processing of SPE-AOX samples.

Designed with 3 enrichment channels, each channel can be operated and started individually. Sample volume, rinse volume and adsorption rate can be selected separately for each channel.

Whether clear or turbid water, the system masters every matrix and stands out with excellent particle handling. Thanks to the large diameters of the hoses and the absence of conventional valve technology, particles are easily transferred to the enrichment columns. The intuitive control panel makes operation easy. APU sim is suitable for columns of all brands up to a total length of 150 mm.



**AFU 3 –  
the versatile all-rounder**

The system allows for semiautomated sample preparation of up to 3 samples according to batch method. It's an effective alternative to the classical membrane filtration as usage of expensive polycarbonate membrane filters is not necessary. Filtration is done directly into a frit container. The system can be extended easily for semiautomated preparation of up to 3 samples according to column method.



**Device recommendations**

For an ideal device configuration, we recommend Analytik Jena's AOX analyzer multi X 2500 with the APU 28 S and the autosampler autoX 112. This configuration allows for processing of 112 samples in 24 hour operation mode. The multi X 2500 is universally applicable for analysis of samples prepared according to column and batch method. Further applications like EOX, POX, determination of TCI in organic solids and liquids and TOC in waste water let you to benefit even more from your equipment.



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