



VF NUCLEAR



NUCLEAR
POWER PLANTS



WASTE
MANAGEMENT



RESEARCH
CENTRES



INDUSTRY
& MANUFACTURING

VOPV-7

VERY HIGH-VOLUME AIR SAMPLER



MAIN ADVANTAGES

- High-volume air sampling in a short time
- High reliability
- Low operating costs
- Continuous operations inside and outside
- Programmable sampling intervals
- Constant airflow through the filter
- Simple controlling
- The possibility of controlling from a host system

PURPOSE

VOPV-7 is intended for air sampling on filter media with adjustable flow rate. The radioactive pollutants retained on the filter can be subsequently analysed in a laboratory and the nuclide specific volume activities can be calculated.

By means of motor speed regulation, the sophisticated airflow control system provides a sustained pre-set air flow, regardless of filter fouling. The air sampler operates continuously for a fixed time or until the desired air volume is taken.

The device is equipped with a number of sophisticated features, such as motor overload protection, automatic restart after restoration of interrupted power supply, and more.

The main components of VOPV-7 are:

- centrifugal pump driven by motor,
- flowmeter,
- filter holder,
- control unit,
- keyboard and backlit display.

The device's display shows the instantaneous flow rate, the total sifting volume since the start of sampling, the total number of operating hours from startup, the sifted volume in the selected time interval, the temperature and pressure of the samplers, the status and error messages, and the real time.

SPECIFICATION

Available negative pressure (airflow 600 m ³ /h)	6 kPa
Medium junction	M76 × 1,5, or hose DN80 mm
Dimensions (W × H × D)	240 × 220 × 74 cm
Weight	500 kg
Interface	RS-485
Power supply	3 × 400 V AC
Sample temperature range	from -5 to +35 °C
Operating temperature range	from -5 to +35 °C



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Specification subject to change without prior written notice.

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