



SPECIFICATION SHEET NURSERS EGS Auto-Controlled Volume Air Sampler



EGS is a high volume air sampling system used for capturing radioactive aerosols, emissions, dust and other air pollutants contained in sampled ambient air. Sampled air passes through removable filters that are subsequently analysed in a laboratory to evaluate volume activities of captured particles.

This state-of-the-art air sampler is easy to operate and can be incorporated into various automated sampling systems. The system is designed to be remotely controlled including for the setting of parameters and data collection.

Benefits

- Continuous or pre-defined sampling interval or air volume
- Powerful vacuum pump with asynchronous induction motor
- Flow rate and flow volume measurement and logging
- Automatic pump power adjustment to keep constant flow rate despite rising blockage of used filter
- Adjustable for various filter types
- · Remote control

Key figures

5 − 140 m³/h Adjustable air flow rate

➡ Weight

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NURMS EGS Auto-Controlled Volume Air Sampler

Product description

The EGS advanced concept is designed to capture radioactive aerosols on filters with adjustable flow rates ranging from 5 to 140 m³/h. The flow rate is automatically regulated with increasing resistance of the clogged filter. The principle of the EGS operation is based on a centrifugal high-velocity pump with a brushless asynchronous AC motor ensuring minimal maintenance of the system.

EGS is a compact device in a metallic case. Removable rubber feet allow comfortable installation on solid surfaces. Inlet flange is mounted on the front panel, the power switch, Ethernet socket, RS-232, AUX, USB connectors and power line socket are located on the rear side, exhaust flange is placed on the top of the unit and OLED display and keypad are located on instrument side.



Product applications

- Air sampling for radioactive material concentration measurement at workplaces - results are used for estimation of workers' intakes and determination of appropriate protective equipment and measures
- Warning of significantly elevated levels of radioactive material in the ambient air
- · Sampling system for collecting air in ventilation stacks for aerosol evaluation
- Installation as a sampling device in bypasses of sampling systems
- Outdoor sampling system / monitoring station for subsequent ambient air analyses



Product specifications

230 V / 50 Hz
Standard 300 VA, max. 800 VA
4 A
Centrifugal
Asynchronous AC motor
Automatic pump drive power adjustment
RPM of the measuring turbine
IP30
87 dB (informative measurement in the unloaded state at a flow rate of 140 m³/h at a distance of 1 m)
Local 6-key keypad Remote administration via LAN
OLED type
400 × 260 × 270 mm without exhaust and inlet flange, 460 × 260 × 340 mm in total
13 kg (without the sampling filter attached)
Temperature from +5 to +40 °C Humidity max. 75%, non-condensing
From 5 to 140 m ³ /h
Via flange (80 mm diameter or customised)
Via flange (can be customised)
USB, LAN, RS-232, RS-485
Current flow rate in m ³ /h Real time Temperature Pressure Total sampled volume of the gas medium Total running time Sampled volume within the START-STOP interval Status report of the device and occurred failures Others

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