

NGS-2000 Noble Gas Sampler



Description

In the NGS-2000 there are the following components on the framework:

- Control and processing unit with a 5.7" touch display, power supply modules, communication via Ethernet for remote control
- Pre-filter for coarse particle filtration
- Aerosol filter with air membrane dryer
- Efficient oil-free two-stage compressor
- Removable portable Marinelli type beaker with built-in temperature sensor; Marinelli beaker fixing system
- Temperature and pressure sensors, beaker sensor, connecting and safety modules

The sampler can easily be installed and put into operation.

The control unit determines the sampling parameter settings, calculations, and management of the sampling system. Part of the application software includes a short-term result archive. The volume of sampled air is calculated by the Marinelli beaker calibrated volume, pressure (adjustable), and sampled air temperature. The Marinelli container connects via flexible pressure hoses and quick-acting couplings.

The standard sampling cycle involves: beaker installation – deflating previous air sample – purging the beaker – sampling – beaker removal and transport for laboratory evaluation. The Marinelli beaker dimensions are fitted for measuring with an HPGe detector lid-size of 89 mm (3.5 in).

The NGS-2000 Noble Gas Sampler is intended for the collection of air samples from nuclear facilities' ventilation stacks.

Subsequently, collected samples' noble gas nuclide specific activity is evaluated in the laboratory by using a spectrometric HPGe detector.

Specifications

Marinelli type beaker volume	10 l (610 in ³)
Beaker pressure, max.	1200 kPa (174 psi)
Communication interface	Ethernet
Power supply	230 VAC, max. 0.5 kW
Dimensions (L x H x W)	700 x 1500 x 400 mm (27½ x 59 x 15¾ in)
Total weight	93 kg (205 lb)
Operating temperature	+5 4 50 °C (41 4 122 °F)

Models and Accessories

Type	Description
K0730	NGS-2000 Noble Gas Sampler
Optional Accessories	
Relay output; digital outputs; analogue inputs	
Related products	
K1061	NGM-2000 Noble Gas Monitor

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