

## Specification

Parameter	Value
Energy resolution, MeV	0.05 - 2.8
HPGe detector efficiency, %	10*
Detection limit for <sup>131</sup> I radionuclide specific activity, measurement time 600 s, Bq/l	1.5 x 10 <sup>3</sup>
Absolute sensitivity to gamma flux for 30% efficiency detector, pulse/quantum	7.3 x 10 <sup>5</sup>
Continuous autonomous operating time after filling with liquid nitrogen, days	18
Ambient temperature, °C	+5 to +40
Supply voltage, V/Frequency, Hz	220+10 / 50+60
Overall dimensions	
Lead shield, support and detector, mm	1300 x 580 x 480
Spectrometric device Multispectrum, mm	490 x 230 x 490
Lead shield, support and detector weight, kg	170

\* Detectors with higher efficiency are available

## Installations



## HPGe Spectrometer with Shield for Radionuclide Analysis of Liquids and Gaseous Flows

### Application

HPGe Spectrometer with shield is designed for defining the composition and activity of radionuclides in the flow of liquids and gases in automated technological processes such as those in nuclear energetics, environmental monitoring and industrial applications.

### Complete set

- Detection Unit based on HPGe P-type coaxial detector
- Multi Channel Analyzer
- Shield-container with measuring unit
- Control unit with valves
- Sensors for liquid and gas flow
- Emulation and analysis software

### Features

- Definition of composition and activity of radionuclides in real time mode
- Display of current values for specific activity of controlled radionuclides
- Indication of activity level increase of any chosen radionuclide
- High registration efficiency
- Wide range of measured activities
- Operation rates in fully-automatic mode: measurement, washing, purging, pre-starting
- Liquid nitrogen level indicator with alarm system

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