

HG3000 and EHG3000 Hydride Accessories

Hydride Accessories

HG3000

Continuous flow HG3000 for best results

The HG3000 is an automatic continuous flow hydride generator for the analysis of the hydride forming elements such as arsenic, selenium, antimony, bismuth, tellurium, tin, germanium and lead at parts per billion concentration level.

The same system can be used to measure mercury at parts per billion concentration utilising the cold vapour technique.

As the system is a continuous flow system, signals can be integrated, thus filtering noise and improving the detection limits when compared to hydride generation systems that produce transient signals. To achieve the same sensitivity with flow injection systems, much larger sample volumes are required, meaning longer set up and analysis times.

The continuous flow process also means faster analysis when following good analytical procedures and measuring more than one replicate. Typical sample throughput is 60 samples per hour, measuring three replicates on each sample. Other systems only allow 30 to 40 samples to be measured each hour when measuring three replicates on each sample. The HG3000 will increase the productivity of your laboratory.



EHG3000

Improve hydride results with the EHG3000 Electrically Heated Hydride Cell

The EHG3000 is used to electrically heat the quartz cell used in hydride generation analysis, as an alternative to flame-heating of the cell. The advantages of using an electrically heated cell include: more accurate temperature control, more stable temperatures, less noise as the flame is not present, and improved detection limits for most elements.

As the EHG3000 does not require a flame, hydride analyses can be carried out unattended or even overnight, saving the laboratory time and money.

In addition, the EHG3000 can be used for warming the cell for cold vapour mercury analysis, eliminating any condensation in the quartz tube.

The electrical heating blanket can also be used with SavantAA No Flame, which does not have a gasbox, enhancing its analytical capability.

