

# INCREASE PRODUCTIVITY AND SIMPLIFY SAMPLE PREPARATION

## Sample Introduction Pump System

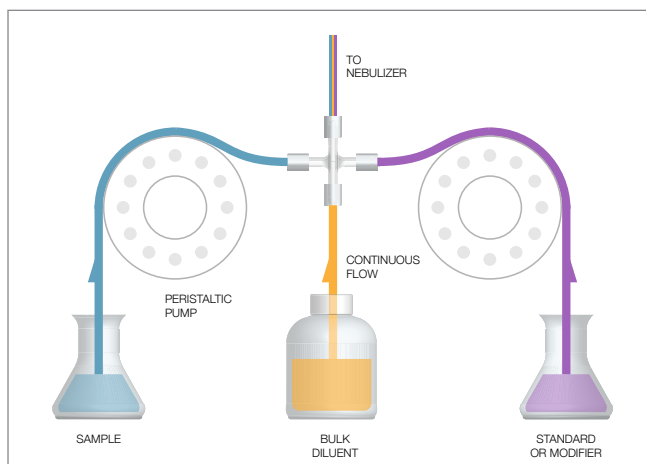


### Sample Introduction Pump System (SIPS)

The SIPS 10 (single pump) and SIPS 20 (double pump) are designed to automate and speed up many tedious and error prone sample preparation tasks.

A SIPS accessory, together with the 200 Series AA instrument software will:

- Prepare calibration standards from a single multi-element bulk standard
- Reduce sample preparation time and the risk of operator error
- Automatically perform in-line dilutions
- Minimize re-runs and extend the working range by automatically calculating and performing the dilution required to bring a sample into the calibrated range
- Perform up to 200x dilutions with dilution errors of less than 2%
- Simplify the sample preparation process with automatic addition of modifiers (SIPS 20 only), ensuring consistent matrix modification
- Automate Internal Standard corrections (SIPS 20 only), which enhances accuracy and precision. One pump introduces the sample, while the second pump introduces the internal standard.



The dual-pump SIPS 20 can perform dilutions and add modifier or standard additions by controlling the speeds of the two pumps. Slowing down the sample pump will draw less sample into the flow of diluent, effectively diluting the sample. The right hand pump can be turned on and off to control the addition of another liquid (e.g. modifier) into the sample flow before it reaches the nebulizer. Using a SIPS accessory with one of Agilent's flame AA instruments featuring Fast Sequential mode will create a highly efficient and automated flame AA system.

For more information:  
Contact your local Agilent representative or visit:

[www.agilent.com/chem/atomic](http://www.agilent.com/chem/atomic)

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