



Eclipse Process Gas Chromatograph

Wasson-ECE Introduces the Next Generation in On-Line Gas Chromatography

[Eclipse Literature \(PDF\)](#)

Introducing Eclipse, the world's most advanced process gas chromatograph. Utilizing the latest technology in high-speed programmable oven GC, Eclipse gives you the ability to perform more complex chromatography on-line. You do not need to feel limited to simple chromatographic separations any longer. Wasson-ECE is about to reveal what a process GC should be.

The Technology of Eclipse

- High-speed programmable oven
- Full electronic pressure control
- Advanced multi-dimensional chromatography
- High-resolution local interface
- Superior data handling capability

The Proof is in the Peaks

Eclipse was built by chromatographers, for chromatographers. Each portion of the system was designed to utilize the best chromatography technology available. The advanced programmable oven and electronic pressure control insure that consistent retention times are achieved; even when running very fast capillary analyses.

A Change is Coming

There has always been a gap between the technology available in the laboratory and the need to run samples in the field. Users were forced to either deal with inferior process analytical technology, or wait for the lab to run a sample. Wasson-ECE has bridged that gap with Eclipse. Now you have the ability to run advanced chromatography on-line. Now you can tap into the latest in sampling system, detector, and column technology.

A Unique Solution for the Analysis of Permanent Gases in High Purity Monomers

The production of high quality monomers demands the best analytical technology available. Contaminates at low concentrations can adversely affect the quality of the resulting polymer. Additionally, certain monomer impurities can cause irreversible damage to polymerization catalysts.

As an introduction to the potential of Eclipse, Wasson-ECE has developed an on-line solution for the analysis of permanent gases in monomers at ultra-trace levels. Using capillary columns and specialty detector techniques,



detection limits of CO and CO₂ at low ppb levels are possible. In addition to the carbon oxides, this method can also measure hydrogen, argon/oxygen, nitrogen, and methane down to single digit ppb concentrations.

A Valco pulsed discharge helium ionization detector was configured for the analysis of trace fixed gases in ethylene and propylene. The method has a lower detection limit of 15 ppb for CO and 5 ppb for CO₂.

Eclipse - Trace CO CO₂

