

## CM5330 – Acidification Module

Applications include:

Analysis begins with the introduction of a solid or liquid sample into the sample flask located at the base of the sample column assembly. While pre-weighted solid samples are typically introduced directly into the sample flask, liquid samples are usually introduced by syringe injection through the septum located at the head of the sample column assembly.

Following sample introduction, a CO<sub>2</sub>-free carrier gas is used to purge the system of any atmospheric CO<sub>2</sub> that may have been introduced with the sample. A pre-scaled volume of acid is then added to the sample flask through a single pump of the acid dispenser and sample acidification is complete.

Using the built-in heater and magnetic stirrer to facilitate more efficient digestion of the sample, pre-scrubbed carrier gas transports all volatile digestion products through a post-scrubber and into the reaction cell of a CM5017 CO<sub>2</sub> coulometer. There inorganic carbon present as CO<sub>2</sub> is measured automatically by a 100% efficient coulometric titration.

When used for the determination of sulfur (by the Monier-Williams procedure), similar steps are taken to achieve the evolution of sulfur as SO<sub>2</sub> which is, in turn, automatically titrated in the reaction cell of a CM5017S coulometer.



CM5330 Acidification Module:

- 10-, 25-, 50- or 100-ml reaction vessels
- Selectable volume acid dispenser
- Internal air pump with flow controller
- Controlled sample heating and stirring
- Pre-acidification scrubber for removal of CO<sub>2</sub> from carrier gas
- Post-acidification scrubber for removal of interfering compounds released during sample digestion

### Part Numbers

CM5330-01 for 110V / 50/60Hz  
 CM5330-02 for 220V / 50/60Hz

