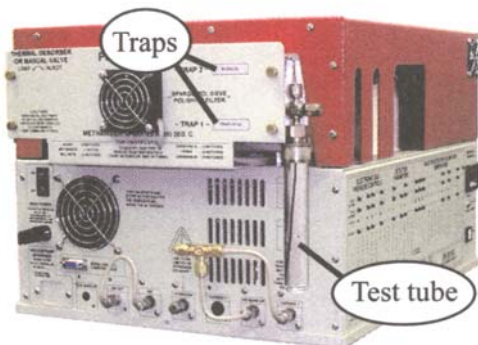


Purge & Trap

Method 5030 or 5030/5035 Compliant



- **Built into the GC for lower dead volume and better peak shape—no transfer line!**
- **Two Independently heated Adsorbent Traps**
- **EPA Methods Compliant**
- **PeakSimple Control**

The Method 5030 Compliant Purge & Trap uses disposable test tubes at ambient temperature.

Built-in to the Model 8610C GC, the SRI Method 5030/5035 Compliant Purge & Trap concentrates the volatile organic compounds (VOCs) in a gas, water, or soil sample onto two adsorbent traps, from which they are automatically desorbed onto the GC column. The Method 5030/5035 Compliant Purge & Trap is equipped with interchangeable purge heads. The 5035 purge head is a thermostatted (typically 40°C) sleeve which accepts standard 40mL VOA vials. The entire sleeve is mechanically agitated while purging to comply with the requirements of EPA Method 5035. The 5030 purge head uses low-cost, disposable 16mm test tubes which are purged at ambient temperature. For higher level soil samples or soil/methanol extractions, the test tube is more convenient and less expensive than VOA vials.



The Method 5030/5035 Compliant Purge & Trap has interchangeable purge heads, and a syringe port for adding internal standard or water. The 5035 purge head is heated and mechanically agitated under PeakSimple data system control.



Operation of the Purge & Trap is completely automated by the PeakSimple data system that is built into the GC. Run parameters such as purge time, desorb preheat, bake-out, vial temperature, and mechanical agitation are adjusted in a PeakSimple Event table.

The SRI Purge & Trap is unique because it is equipped with two traps rather than one, and each trap can be heated independently at the adsorption temperature (typically 35-70°C), the desorption temperature (200°C), and the bake-out temperature (250°C). For most VOC applications, the first trap is Tenax-GR, and the second trap is Carbon Molecular Sieve. By setting the adsorption temperature of the Carbon MoleSieve to 50-60°C and the Tenax-GR to 35°C, water retention is dramatically reduced. By staggering desorption times, early eluting peaks from the hot Carbon MoleSieve trap are refocused on the temporarily cold Tenax-GR trap, resulting in much sharper peaks than otherwise possible (see the chromatograms on the following page).