

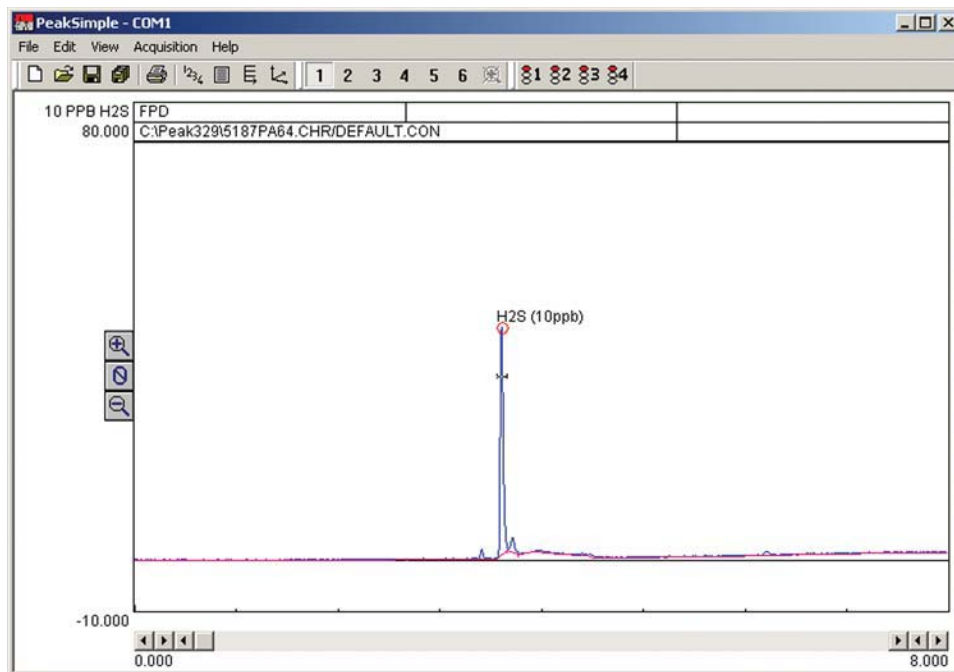
CryoCooled Peltier Trap

- **Sample from Source, Tedlar Bags, Canisters, or Ambient Air**
- **Vacuum Pump and Data System controlled Interface**
- **Independently Heated Dual Trap Design (optional)**
- **10-port Electrically Actuated Valve**
- **PeakSimple Control**

The CryoCooled Peltier Trap can cool gas samples down to -15°C . It is designed for use with analytes that do not trap well but can enrich in cold temperatures, such as some sulfur compounds. The trap is filled with Tenax-GR and Silica Gel adsorbents. A vacuum pump is included for drawing gas samples through the CryoCooled Peltier Trap. The CryoCooled Peltier Trap has its own power supply, separate from the main GC power.



The CryoCooled Peltier Trap is basically a heated trap sandwiched between two Peltier coolers. The CryoCooled Peltier Trap also requires a 10-port gas sampling valve (not included). While the Peltier Trap is enriching the



sample, the 10-port valve is in the LOAD position. At the conclusion of the sampling period, the trap is heated to $150\text{--}200^{\circ}\text{C}$ and the valve is rotated to the INJECT position; this places the trap in the carrier gas stream and sweeps the enriched analytes onto the column.

The chromatogram at left shows the SRI FPD response to 10ppb hydrogen sulfide (H_2S) as enriched by the CryoCooler at -10°C .

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| 8690-0086 | CryoCooled Peltier Trap |
| 8690-0092 | CryoCooled Peltier upgrade for existing heated trap |
| 8690-0065 | 10-Port electrically actuated valve, plumbed & tested |
| 8690-0088 | Thermostatted valve oven mounted on an 8610C GC |