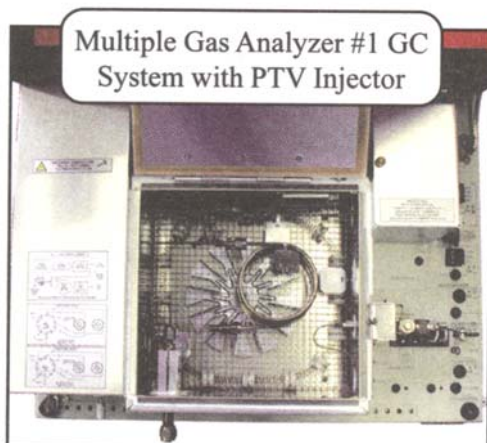
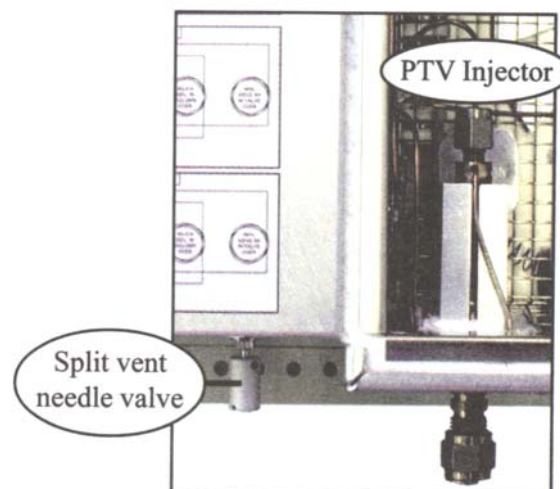


PTV - Programmable Temperature Vaporization Injector



- **Ballistic Heating**
- **Ability to Stop carrier gas**
- **Large Volume Injections—to 1.0mL+**
- **Achieve Low Detection Limits without pre-concentration**
- **Split/Splitless & On-Column Modes**
- **Thermal Desorption Applications**
- **PeakSimple Control**

The Programmable Temperature Vaporization (PTV) option adds ballistic heating capability to the Heated Split/Splitless Injector to accommodate large volume injections or thermal desorption applications. In the PTV mode, the insulation is removed from the Split/Splitless Injector, so that the oven fan can cool the PTV Injector down between analyses.



A small amount of adsorbent material, like Tenax, is packed inside the PTV injector sleeve. The initial column oven temperature, which maintains the injector cool-down temperature, should be set slightly higher than the boiling point of the solvent. As a large volume of sample is injected, the solvent vaporizes and passes through the adsorbent material and out the split vent. The split vent and carrier gas are under PeakSimple control. The carrier gas can be turned OFF during the PTV ballistic heating, in order to preheat the adsorbed analytes prior to desorbing onto the column.

The Silcosleeve™ liner can be packed with adsorbents like Tenax, loaded with sample offline, then inserted into the PTV for desorption. With the addition of a 10 port valve, the PTV can function as a thermal desorber for volatiles.

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|-----------|---|
| 8690-7034 | PTV & Split/Splitless Injector upgrade |
| 8690-8034 | PTV & Split/Splitless Injector with 10-port valve |